



## 2007-2008 Calendar

### Message from the Dean

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Welcome to the 2007-2008 academic year.

This *Calendar* is your guide to the wide range of academic choices available to you as a student in the Faculty of Arts & Science. With more than 2,000 courses in some 300 programs, the number and variety of options is unparalleled in Canada.

While such choice is exciting, it can also be a little intimidating trying to decide which courses to take. There are many people who work in Arts & Science whose job it is to answer your questions and assist you in getting the most out of your university experience. Your college registrar's office is your first stop for assistance, including advice about course selection, degree requirements and so on. I encourage you to take advantage of these services, whether you are at the beginning, middle or end of your university career.

The Faculty of Arts & Science is firmly committed to a top quality experience for our students. We value your feedback on all aspects of your student life. Let us know how you feel your courses and professors measure up by completing the Arts & Science Students' Union course evaluations. Pass along suggestions to your college registrar's office about ways in which services could be improved or drop a note in the Faculty of Arts & Science Registrar's office suggestion box. Take part in campus surveys measuring student satisfaction. Give us your feedback and ideas about this *Calendar* and our services in general by emailing [ask@artsci.utoronto.ca](mailto:ask@artsci.utoronto.ca). Or you might even decide to join fellow students on my Faculty Council—Arts & Science's main decision-making body. Through your engagement, we can ensure Arts & Science students get the educational experience they deserve.

With best wishes for a great academic year,

A handwritten signature in black ink that reads "Pekka K. Sinervo". The signature is written in a cursive, flowing style.

Pekka K. Sinervo, FRSC  
Dean & Vice-Provost, First Entry Programs, University of Toronto

# Important Notices

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While Departmental counsellors and the Registrars of the Colleges are always available to give advice and guidance, it must be clearly understood that THE ULTIMATE RESPONSIBILITY RESTS WITH THE STUDENT for completeness and correctness of course selection, for compliance with prerequisite, co-requisite requirements, etc., for completion of Program details, for proper observance of the Distribution Requirement and for observance of regulations, deadlines, etc. Students are responsible for seeking guidance from a responsible officer if they are in any doubt; misunderstanding, or advice received from another student will not be accepted as cause for dispensation from any regulation, deadline, program or degree requirement.

## Degrees Offered on the St. George Campus

Effective for students registering in a degree program in the Faculty for the first time in the 2001 summer session or later, the St. George Campus of the Faculty of Arts and Science has discontinued the 15-course (three-year) B.A. and B.Sc. degrees; ONLY 20-course (four-year) Honours B.A., B.Sc. and B.Com degrees will be available. Students registered in a degree program in the Faculty before the 2001 summer session may still choose a 15-course (three-year) degree.

## Changes in Programs of Study and/or Courses

The programs of study that our calendar lists and describes are available for the year(s) to which the calendar applies. They may not necessarily be available in later years. If the University or the Faculty must change the content of programs of study or withdraw them, all reasonable possible advance notice and alternative instruction 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. We must, however, reserve the right otherwise to change the content of courses, instructors and instructional assignments, enrolment limitations, pre-requisites and co-requisites, grading policies, requirements for promotion and timetables without prior notice.

## Regulations and Policies

The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the Faculty are displayed here. Applicable University policies are either fully displayed here or listed here. In applying to the Faculty, the student assumes certain responsibilities to the University and the Faculty and, if admitted and registered, shall be subject to all rules, regulations and policies cited in the calendar, as amended from time to time.

## 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 or sections for which enrolment or resources are insufficient notice and alternative instruction will be given. The University will not be liable for any loss, damages, or other expenses that such limitations or withdrawals might cause.

## 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, he or she must obtain the instructor's written consent beforehand. Otherwise all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by students with disabilities, the instructor's consent will not be unreasonably withheld.

## Person I.D. (Student Number)

Each student at the University is assigned a unique identification number. The number is confidential. The University, through the Policy on Access to Student Academic Records, 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.

## Fees and Other Charges

The University reserves the right to alter the fees and other charges described in the calendar.

## Notice of Collection concerning Freedom of Information and Protection of Privacy

The University of Toronto respects students' 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, financial assistance and awards, graduation and university advancement, and for the purpose of statistical reporting to government agencies. 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](http://www.utoronto.ca/privacy) or contact the University Freedom of Information and Protection of Privacy Coordinator at 416-946-7303, McMurrich Building, Room 201, 12 Queen's Park Crescent West, Toronto, ON, M5S 1A8.

## Registration

Details of the procedures by which students of the Faculty of Arts and Science register and enrol in courses for which they are eligible, and pay or make arrangements to pay fees, are found in the *Registration Handbook and Timetable*, which students receive from their college. (Any student allowed to register one day after the end of the first week of classes is charged a late fee.

## Passed Courses May Not Be Repeated

Students may not repeat any course in which they have already obtained a mark of 50% or higher. The only exceptions occur when students require a course with a specific grade for entry to a limited-enrolment Program. Students may repeat such a course only once as an "extra" course, which will have no effect on status or Grade-Point Average. There are no supplemental examinations or provisions to "upgrade" a mark. All courses taken, except those officially cancelled, remain on the record.

## Degree Courses and "Extra" Courses: Chronological Principle

Courses are credited towards a degree chronologically. For example, if a student has already passed six 100-series courses and then enrolls in further 100-series courses, the more recent courses are counted as "Extra" courses. An exception occurs when a student who has completed 5.5 100-series courses enrolls in a full course at the 100-level in a subsequent session; the most recently taken half-course becomes "extra."

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## Where to Look to Find What You Need....

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A quick guide to information on the main topics of interest to Arts & Science students.

(*Calendar* = this publication ; RHT = *Registration Handbook & Timetable* ; ASW = Arts & Science Faculty Registrar's website: [www.artsci.utoronto.ca/current/undergraduate](http://www.artsci.utoronto.ca/current/undergraduate))

### COURSES:

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Descriptions listed alphabetically by sponsoring unit in the *Calendar*.

Scheduling information and enrolment instructions in the *RHT*.

### PROGRAMS

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General definitions and rules, *Calendar* pp. 25-26. Alphabetical listing of all Subject POSTs (programs of study), *Calendar* pp. 38-39 & *RHT*. Contacts & enrolment instructions, *RHT*.

### DEGREE REQUIREMENTS

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Hon.BA/BSc, *Calendar* p. 25; B.Com p. 26.

### FEES

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Amounts, payment deadlines, refund schedules: Student Accounts website: [www.fees.utoronto.ca](http://www.fees.utoronto.ca).

See also *Calendar* p. 474.

### GRADING & MARKS

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A&S grading scale & policies, pp. 478-479; *UofT Grading Practices Policy*, p. 485 ff.

### PETITIONS

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Official rules, *Calendar* p. 480. See also the informal *Petitions Guide* on the ASW. Advising: see your College Registrar's Office.

### EXAMS

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Final Examination timetables, ASW.

Rules, *Calendar* p. 477. Also see Appendix to the *Petitions Guide*, which gives all the rules for exams, ASW.

### ACADEMIC MISCONDUCT

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*Code of Academic Behaviour* (i.e., plagiarism, cheating, etc), *Calendar* p. 488. Also *Code of Student Conduct*, *Calendar* p. 490.

### FINANCIAL AID

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Admissions & Awards website: [www.adm.utoronto.ca/fa](http://www.adm.utoronto.ca/fa). Advising from your college Registrar's Office and Admissions & Awards.

### SCHOLARSHIPS

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Admissions & Awards website: [www.adm.utoronto.ca/awd](http://www.adm.utoronto.ca/awd); Arts & Science web site: <http://www.artsci.utoronto.ca/current/undergraduate/undergraduate-scholarships>.

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## TRANSCRIPTS

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Ordered from the Transcript Office, Sidney Smith, room 1006, or on ROSI at [www.rosi.utoronto.ca](http://www.rosi.utoronto.ca). (Use a credit card to order.) Information on ASW.

## ADVISING

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Your reliable first stop is your College Registrar's Office. They can help you sort things out and get the support you need. Departmental and program advisors advise on matters related to specific courses, programs, or instructional matters. You may also access specialized University Student Services directly. See: [www.studentservices.utoronto.ca/services.asp](http://www.studentservices.utoronto.ca/services.asp) or *Intuit: Your guide to student life @ U of T*.

## COURSE EVALUATIONS

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The ASSU *Anti-Calendar* appears on the ASSU website: [www.assu.ca](http://www.assu.ca).

## OLD EXAMS

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The Library website: <http://eres.library.utoronto.ca>.

**For updates to this Calendar, check [www.artsci.utoronto.ca/current/undergraduate](http://www.artsci.utoronto.ca/current/undergraduate). Please note that not all courses listed in the *Calendar* are offered every year; for course schedules, check the *Registration Handbook and Timetable*.**

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# Sessional Dates

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## 2007 Summer Session

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### May 2007

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- 14 Classes begin in F and Y section code courses  
21 Last day to add courses with F and Y section codes; Victoria Day; University closed

### June 2007

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- 8 Fees payment deadline for deferred examinations in June 2007; deferred examination cancelled and grade with "0" for examination reinstated to academic record for students who have not paid.  
10 Last day to drop courses with F section codes from academic record and GPA. After this deadline a mark is recorded for each course, whether course work is completed or not (a "0" is assigned for incomplete work), and calculated into the GPA.  
13-20 Arts and Science Spring Convocations  
22 Classes end in F section code courses; Fees payment deadline for deferred examinations in August 2007; deferred examination cancelled and grade with "0" for examination reinstated to academic record for students who have not paid.  
25-29 Final examinations in F section code courses, and deferred examinations in specified S section code courses from April/May 2007  
29 Last date to file a petition regarding term work in 2007 summer session F section code courses

### July 2007

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- 2 Canada Day holiday; University closed  
3 Classes begin in S section code courses; First day to request graduation in November 2007  
6 Last date to file a petition regarding a final examination in 2007 summer session F section code courses  
9 Last day to add courses with S section codes  
20 Examination timetable for S and Y section code courses posted  
22 Last day to drop courses with Y section codes from academic record and GPA. After this deadline a mark is recorded for each course, whether course work is completed or not (a "0" is assigned for incomplete work), and calculated into the GPA.  
27 Notification of deferred examination dates during the August examination period mailed to students who have paid fee  
30 Last day to drop courses with S section codes from academic record and GPA. After this deadline a mark is recorded for each course, whether course work is completed or not (a "0" is assigned for incomplete work), and calculated into the GPA.

### August 2007

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- 6 Civic holiday; University closed;  
10 Classes end in S and Y section code courses  
13-17 Final examinations in S and Y section code courses, deferred examinations from April/May 2007, and specified courses from June 2007  
17 Last date to file a petition regarding term work in 2007 summer session Y/S section code courses

- 24 Last date to file a petition regarding a final examination in 2007 summer session Y/S section code courses

### September 2007

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- 9 Last day to request graduation for November 2007

## 2007 Fall Session

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**Meeting dates for Council of the Faculty of Arts and Science and its Standing Committees will be posted on the Arts & Science Governance web site:**  
[www.artsci.utoronto.ca/main/facultygovernance](http://www.artsci.utoronto.ca/main/facultygovernance).

### August 2007

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- 31 Bank tuition fee payment (or official deferral) must be done by this date for automatic registration

### September 2007

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- 3 Labour Day; University closed  
10 Fall term classes begin in F and Y section code courses  
19 Proof of tuition fee payment must be shown to College Registrars' Offices for registration if payment made after August 31  
23 Last day to add courses with F and Y section codes; Last day to enrol in Subject POSt for 2007-2008 Session

### October 2007

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- 5 Fees payment deadline for deferred examinations in December 2007; deferred examination cancelled and grade with "0" for examination reinstated to academic record for students who have not paid.  
9 First date to request graduation in June 2008 on the Student Web Service  
8 Thanksgiving; University closed  
19 Examination timetable for F section code courses posted  
26 Notification of deferred examination dates during the December examination period mailed to students who have paid fee.

### November 2007

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- 4 Last day to drop courses with F section codes from academic record and GPA. After this deadline a mark is recorded for each course, whether course work is completed or not (a "0" is assigned for incomplete work), and calculated into the GPA.  
15 Deadline to request corrections to 2006-2007 Fall/Winter academic record  
12-16 Arts and Science Fall Convocations (tentative)

### December 2007

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- 2 Last date to request graduation for June 2008  
7 Classes end  
10-21 Final examinations in F section code courses, and deferred exams from August 2007; Term tests in Y section code courses  
21 Last date to file a petition regarding term work in 2007 fall session F section courses

# Sessional Dates

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- 22 Winter holidays for students begin; University is closed December 22 to January 6, 2008

## **2008 Winter Session**

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### **January 2008**

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- 7 Winter Session classes begin  
11 Last date to file a petition regarding a final examination in 2007 fall session F section courses  
20 Deadline to enrol in S section code courses  
25 Fees payment deadline for deferred examinations to be written in February; deferred examination cancelled and grade with "0" for examination reinstated to academic record for students who have not paid fee

### **February 2008**

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- 1 Notification of deferred examination dates during Reading Week mailed to students who have paid fee  
15 Final Examination timetable for S/Y courses posted  
17 Last day to drop courses with Y section codes from academic record and GPA. After this deadline a mark is recorded for each course, whether course work is completed or not (a "0" is assigned for incomplete work), and calculated into the GPA.  
18-22 Reading Week; Deferred Examinations from December 2007  
22 Fees payment deadline for deferred examinations to be written in April/May; deferred examination cancelled and grade with "0" for examination reinstated to academic record for students who have not paid  
28 Deadline to request corrections to 2007 Summer academic record

### **March 2008**

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- 7 Notification of deferred examination dates during the April/May examination period mailed to students who have paid fee  
9 Last day to drop courses with S section codes from academic record and GPA. After this deadline a mark is recorded for each course, whether course work is completed or not (a "0" is assigned for incomplete work), and calculated into the GPA.  
21 Good Friday; University closed

### **April 2008**

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- 11 Classes end  
14-18 Study period; no tests or examinations in this period  
21-May 9 Final examinations in S and Y section code courses and deferred examinations from December 2007

### **May 2008**

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- 9 Last date to file a petition regarding term work for 2007-2008 fall-winter sessions Y/S section code courses  
16 Last date to file a petition regarding a final examination for 2007-2008 fall-winter sessions Y/S section code courses  
19 Victoria Day; University closed

### **June 2008**

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- TBA Arts and Science Spring Convocation. Please check "Ceremony Dates" at [www.utoronto.ca/convocation](http://www.utoronto.ca/convocation).

## **2008 Summer and 2008-2009 Fall-Winter Tentative Dates**

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The tentative dates for the 2008 Summer and 2008-2009 Fall-Winter sessions were not available at press time. When they have been determined, they will be posted on the Faculty Registrar's web site at [www.artsci.utoronto.ca/current/](http://www.artsci.utoronto.ca/current/) undergraduate.

## Admission

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### Admission to the Faculty of Arts and Science

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## **Admission to the Faculty**

Detailed admission requirements are contained in the University of Toronto Viewbook, which is available in secondary school guidance offices throughout Ontario or on the Admissions and Awards web site at [www.adm.utoronto.ca](http://www.adm.utoronto.ca) or through the Faculty of Arts and Science Student Recruitment Office. They are also available on the University's web site for prospective students at [www.utoronto.ca/Prospective\\_Students.htm](http://www.utoronto.ca/Prospective_Students.htm). Candidates from countries other than Canada should also consult the International Undergraduate Admissions Bulletin available on the Admissions and Awards web site.

### **Admissions and Awards**

University of Toronto, 315 Bloor St. W.  
Toronto, Ontario, Canada M5S 1A3  
416-978-2190  
[www.adm.utoronto.ca](http://www.adm.utoronto.ca)

### **Arts & Science Student Recruitment Office**

2032-100 St. George St.  
Toronto, Ontario, Canada M5S 3G3  
416-978-4272  
[recruit@arts.utoronto.ca](mailto:recruit@arts.utoronto.ca)  
[www.arts.utoronto.ca](http://www.arts.utoronto.ca)

### **Minimum Admission Requirements for Applicants from Ontario Secondary Schools**

Applicants must be eligible to receive the Ontario Secondary School Diploma, present six Grade 12 U or M courses including ENG4U/EAE4U, and meet any prerequisites for their intended program of study.

### **Minimum Admission Requirements for Applicants from Outside Ontario Secondary Schools**

The Faculty of Arts and Science is home to a rich and varied student body. Although most of our students are from Southern Ontario, we have students from every province of Canada and from over 90 foreign countries. We encourage application by qualified students from outside Ontario. Applicants must present a satisfactory academic record from recognized academic institutions and meet the requirements listed in the International Undergraduate Admissions Bulletin, available for download from the Admissions and Awards web site at [www.adm.utoronto.ca/adm](http://www.adm.utoronto.ca/adm). The specific average or standing required for admission varies from year to year.

### **Canadian Students**

Applicants from the Province of Quebec must present twelve academic C.E.G.E.P. courses including two terms of English/anglais. Applicants from all other provinces and territories in Canada must present grade 12 matriculation. For detailed information, check the Admissions and Awards web site at [www.adm.utoronto.ca/adm](http://www.adm.utoronto.ca/adm).

### **American Students**

Applicants from the United States must present Grade 12 matriculation and present good scores in SAT Reasoning or ACT examinations. Students must present the Writing Test. Applicants must also present at least three SAT Subject Test

scores or AP scores in subjects appropriate to their proposed area of study. Those seeking admission to science or business/commerce programs are strongly advised to complete AP Calculus AB or BC or IB Mathematics. For detailed information, check the Admissions and Awards web site at [www.adm.utoronto.ca/adm](http://www.adm.utoronto.ca/adm).

### **Other Applicants**

Information on admission requirements for international applicants is available on the Admissions and Awards web site at [www.adm.utoronto.ca/adm](http://www.adm.utoronto.ca/adm).

### **All Applicants from Outside the Ontario School System**

In addition to meeting the Faculty of Arts and Science admission requirements, students intending to enrol in Commerce, Economics or Science programs must have completed, or must take, a full credit secondary school course or equivalent in Calculus which covers the geometric notion of a limit, the differentiation and integration of elementary functions and provides them with a geometric grasp of differentiation and integration in place of Grade 12 Calculus.

Please note that Commerce and Computer Science require a second math. As of 2008, Life Science and Physical and Mathematical Science will also require a second math.

For further information on acceptable mathematics courses or equivalents, please contact the Department offering the program in which you intend to enrol.

The Faculty of Arts and Science offers a special first-year calculus course entitled MAT 136Y - Calculus and its Foundations, limited to students from outside of Ontario interested in the biological, physical, commerce or computer sciences and commerce and whose high school mathematics preparation is strong but does not include calculus. For more information, consult the Mathematics listing starting on page 316 of this *Calendar* for a full course description as well as the *Registration Handbook and Timetable*.

### **PUMP (Preparing for University Math Program)**

PUMP is a non-credit, intensive course specially designed to prepare students for entry-level mathematics courses, like calculus and linear algebra. It is designed primarily for students from outside Ontario who require additional pre-university mathematics background. The course costs \$600.00 (subject to change). For more information, see the web site at [www.math.utoronto.ca/pump](http://www.math.utoronto.ca/pump).

### **English Facility Requirement**

Applicants whose first language (language learned at home as a child) is not English may have to present proof of English facility. For details, see the Admissions and Awards web site at [www.adm.utoronto.ca/adm](http://www.adm.utoronto.ca/adm).

# Admission

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## Other Admission Categories

### **Students Transferring from University of Toronto Mississauga and University of Toronto Scarborough**

Students transferring from the University of Toronto Mississauga and the University of Toronto Scarborough apply using an internal application available on the Admissions and Awards web site at [www.adm.utoronto.ca/adm](http://www.adm.utoronto.ca/adm) (click "Applications/Deadlines"). Students transferring from University of Toronto Mississauga and University of Toronto Scarborough must follow the degree requirements and observe the course exclusions in the St. George Campus *Calendar*; for example: the St. George campus Distribution Requirement must be completed.

### **Admission with Transfer Credit**

Candidates with acceptable standing at other universities, or at other divisions of this University (including the University of Toronto Mississauga and the University of Toronto Scarborough), may be considered for admission with transfer credit provided that the content of the studies for which credit is sought is considered appropriate for inclusion in a degree program offered by the Faculty. Transfer credits are assessed after admission once the student has completed the online application and paid the assessment fee. Students who have completed a bachelor's degree, see section entitled "Admission of External Students to a Second Degree Program" in the next column. The Faculty grants up to a maximum of five credits to candidates who have completed a three-year diploma at Ontario Colleges of Applied Arts and Technology/Institutes of Technology and Advanced Learning, and a maximum of two generic credits to candidates who have completed a two-year diploma at Ontario Colleges of Applied Arts and Technology/Institutes of Technology and Advanced Learning. Otherwise a maximum of ten transfer credits may be granted. Students who have completed post-secondary studies are required to apply for on-admission transfer credit.

Regardless of the number of transfer credits granted, at least five of the six 300+series courses required for an Honours degree must be completed with a passing mark in this Faculty. Newly admitted students have one year from the date of their transfer credit assessment, or from the date of their first registration in the Faculty, whichever is later, to request a reassessment or adjustment. The same time limit applies to all departmental interviews.

Candidates who have completed Arts and Science courses while enrolled in other Divisions of this university or while enrolled as non-degree students in this Faculty prior to degree studies will have these courses and grades included in the academic record.

### **Admission Restricted to "Part-Time"**

Students restricted to a reduced course load on admission may take no more than 2.5 courses over the Fall-Winter Sessions. They may take a maximum of 1.0 course in the Summer Session. If these students wish to transfer to full-time studies, they may apply through their College Registrar after the session in which they pass at least 4 courses in the Faculty with a minimum cumulative Grade Point Average of 2.50. (Transfer credits are not counted.) See also Number of Courses Taken ("Course Load").

### **Admission "On Probation"**

Candidates who fail to satisfy the Faculty's admission requirements, but successfully appeal for special consideration of the circumstances which have affected their studies at other universities, or other Faculties or Schools of this University including the University of Toronto Scarborough and the University of Toronto Mississauga, may be admitted On Probation. The academic requirements that such students must meet are the same as those required of students who encounter academic difficulties while registered in the Faculty. The academic status will remain, "On Probation", until the session in which the student attempts his/her fourth course, at which time a further status will be assigned. Students who are admitted on probation and who have retained credits from previous courses in this Faculty will have the total number of retained credits and grades included in the four course attempts. Refer to Section Six, Rules and Regulations: Academic Status, in this *Calendar*. Students may be at risk of academic suspension from the Faculty and are strongly urged to consult their college registrar for appropriate counselling before registering and if necessary, during the course of their studies.

### **Admission as a Non-Degree Student**

Non-degree students are registered in the Faculty but are not proceeding towards a degree offered by the Faculty. Most Non-degree students have completed a degree and are taking further courses for their own purposes, including admission to graduate studies. Students admitted as degree students cannot become Non-degree students unless they have completed an Honours or Four Year degree, or are returning to the Faculty as Non-degree students on a Letter of Permission from another institution. To apply for admission as a Non-degree student, download the application from the Admissions and Awards web site at [www.adm.utoronto.ca/adm](http://www.adm.utoronto.ca/adm) (click "Applications/Deadlines").

### **Admission of External Students to a Second Degree Program**

Applicants with a Bachelor of Arts or Bachelor of Science or equivalent from another university who wish to complete a second undergraduate degree in the Faculty of Arts and Science may apply for admission to a second degree program. Before applying, external candidates are urged to determine whether a second degree is actually required for their purposes; for example, a "make-up" year as a non-degree student may satisfy admission requirements for a graduate program. The Faculty grants a maximum of five transfer credits—four at the 100 level and one at the 200 level. It is not possible to complete a second undergraduate degree in the same field as the first degree. Students who have completed post-secondary studies are required to apply for on-admission transfer credit. To apply, check the Admissions and Awards web site at [www.adm.utoronto.ca/adm](http://www.adm.utoronto.ca/adm) (click "Applications/Deadlines").

### **Admission as Non-Degree Visiting Students**

Students with valid Letters of Permission from other accredited North American universities who have not been officially admitted to the Faculty of Arts and Science may register as visiting students at Woodsworth College, taking courses for transfer credit at their own home university. Non-degree visiting student registration does not imply acceptance as either a student proceeding towards a degree or a Non-degree

student. Students will receive grade point averages and status as outlined in Section 6. Students must observe Faculty policies, including the prohibition on repeating a “passed” course. For application information and deadlines, check [www.wdw.utoronto.ca/visit](http://www.wdw.utoronto.ca/visit) or contact Woodsworth College, University of Toronto, Toronto M5S 1A9 (416-978-5880).

Students who have transferred to other universities, but wish to return to the Faculty on a Letter of Permission should re-register at their original college as non-degree students.

### **Admission as International Non-Degree Visiting Summer Students**

Students with valid Letters of Permission from recognized International universities who have not been officially admitted to the Faculty of Arts and Science may register as visiting students through the International Summer Program (ISP) at Woodsworth College. Students would take summer courses for transfer credit at their own home university. Non-degree international visiting student registration does not imply acceptance as either a student proceeding towards a degree or a Non-degree student. Students will receive grade point averages and status (see page 479). Students must observe Faculty policies, including the prohibition on repeating a “passed” course. For application information and deadlines, check [www.isprogram.utoronto.ca](http://www.isprogram.utoronto.ca) or contact Woodsworth College, University of Toronto, Toronto M5S 1A9, (416-978-8713).

### **Admission as Non-Matriculants; Academic Bridging Program**

Candidates at least twenty-one years of age who are Canadian citizens or permanent residents of Canada and who do not hold the published admission requirements, may apply for admission as non-matriculants. They must present proof of age, and must complete, with high standing, at least one of the Academic Bridging courses offered by Woodsworth College. All candidates should consult Admissions and Awards concerning their eligibility to qualify as a non-matriculant through the Academic Bridging Program. Information on the Academic Bridging Program is provided on page 51 of this *Calendar*. Further information is also available at [www.wdw.utoronto.ca](http://www.wdw.utoronto.ca) or by contacting Woodsworth College, University of Toronto, Toronto M5S 1A9 (416-978-7487; email [academic.bridging@utoronto.ca](mailto:academic.bridging@utoronto.ca)).

### **Admission of Senior Citizens**

Canadian citizens or permanent residents of Canada who are at least sixty-five years of age by the first day of the term, may register in the Faculty at Woodsworth Colleges as part-time Special Students. They do not have to meet the academic requirements for admission. Applicants should contact Woodsworth College at 416-978-4444 for admission and tuition fee information.

### **Re-Registration in the Faculty**

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Students previously registered as degree or non-degree students in this Faculty who wish to return after an absence must submit a "Request for Re-registration Form" (charge \$24) through their college registrar's office. Re-registration is necessary for students who have not registered in this Faculty within the previous 12 months.

Students with outstanding accounts may not re-register at the University until these accounts are paid. See page 474 for payment deadlines.

"Request for Re-Registration" forms should be submitted at least one week prior to the fall/winter enrolment window for your year of study (see the *Registration Handbook & Timetable* for details). Prior to course selection you will need to make sure you are enrolled in an appropriate combination of Subject POSTs (programs of study) for your degree. It is advisable for you to make arrangements to see a counsellor at your college to go over changes in policies and procedures as well as to clarify the degree requirements you are following.

"Request for Re-Registration" forms can be accepted until August 18, 2006 for Fall/Winter enrolment although space in courses will be limited at this point.

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 (see "Admission as Non-Degree Visiting Students" on the previous page for details).

### **Admission to Other University of Toronto Faculties/Programs**

Many professional studies require completion of one or more years of study in Arts and Science before you apply to them. For detailed admission and contact information on professional studies, please refer to [www.artsci.utoronto.ca/prospective/programsofstudy/professprogs](http://www.artsci.utoronto.ca/prospective/programsofstudy/professprogs).

**Student Services & Resources**

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# Student Services & Resources

## Academic & Personal Counselling

### The Colleges

Every Arts and Science student is a member of a college. Think of your college as a familiar neighbourhood within the university. All the colleges provide advising and support services for students. Academic advising, as well as counselling on financial and personal matters, is available through your college registrar's office. Also, each college provides its students with academic support services such as writing skill centres, math aid centres, libraries and computer facilities. And remember, no matter which college you belong to, you have access to all the courses and programs offered in Arts and Science.

The Registrar's Office of each student's college is the focal point for information and advice of all kinds, and should be consulted as soon as any problems of an academic or personal nature are encountered.

Most of the Colleges offer academic support services, such as Writing Laboratories to provide students with assistance in writing assignments, essays and reports; Mathematics Aid Centres; tutorial services; etc. For further information, see the individual College listings (see page 494) or consult the College Registrar.

Students with problems relating to the teaching of courses (lectures, tutorials, evaluation, work-load, etc.) that they cannot resolve with the instructors concerned, can obtain advice and assistance either from the Undergraduate Secretary of the particular Department, or from their College Registrar.

The Departments and College Program offices should be consulted for advice on courses and programs they sponsor. They also have brochures giving more details of courses and programs than is possible in the Calendar. First-year students are particularly urged to consult program sponsors during the Fall-Winter Session for details on enrolling in programs. (All students must enrol in at least one Specialist or Major or two Minor program(s) upon passing four courses.)

Students registered in Divisions other than Arts and Science who have problems with Arts and Science courses should go for advice either to the departmental Undergraduate Secretary or to the registrar of their own Faculty or School.

### Innis College-Office of the Registrar

2 Sussex Avenue, Toronto, ON M5S 1J5  
416-978-2513 phone/416-978-5503 fax  
registrar.innis@utoronto.ca  
www.utoronto.ca/innis

Hours: Monday 9 a.m.-1 p.m., 2-6 p.m.; Tuesday 10 a.m.-1 p.m., 2-4:30 p.m.; Wednesday/Thursday/Friday 9 a.m.-1 p.m., 2-4:30 p.m.

### New College-Office of the Registrar

300 Huron Street, Room 107, Toronto, ON M5S 3J6  
416-978-2460 phone/416-978-0554 fax  
newcollege.registrar@utoronto.ca  
www.newcollege.utoronto.ca

Hours: Monday to Friday 9 a.m.-12:30 p.m., 1:30-4:30 p.m. (until 4 p.m. in July-August); Wednesday also 5-6 p.m.

### St. Michael's College-Office of the Registrar & Student Services

Room 207, 121 St. Joseph Street, Toronto, ON M5S 3C2  
416-926-7117 phone/416-926-7266 fax  
stmichaels.registrar@utoronto.ca  
www.utoronto.ca/strikes

Hours: Monday, Tuesday, Wednesday, Thursday 9:30 a.m. - 12:30 p.m.; 1:30-4:30 p.m.; Friday 9:30 a.m. - 12:30 p.m.; 1:30-4:00 p.m.

### Trinity College-Office of the Registrar

6 Hoskin Avenue, Toronto, ON M5S 1H8  
416-978-2687 phone/416-978-2831 fax  
registrar@trinity.utoronto.ca  
www.trinity.utoronto.ca

Hours: Monday, Wednesday, Thursday, Friday: 9 a.m.-1 p.m., 2-5 p.m.; Tuesday: 10 a.m.-1 p.m., 2-5 p.m.

Summer hours: Monday, Wednesday, Thursday, Friday: 9 a.m.-1 p.m., 2-4 p.m.; Tuesday: 10 a.m.-1 p.m., 2-4 p.m.

### University College-Office of the Registrar

15 King's College Circle, Toronto, ON M5S 3H7  
416-978-3170 phone/416-978-6019 fax  
uc.regoffice@utoronto.ca  
www.utoronto.ca/uc

Hours: Monday, Wednesday, Thursday, Friday: 10 a.m.-4 p.m.; Tuesday: 10 a.m.-6 p.m.

### Victoria College-Office of the Registrar

Northrop Frye Hall, Room 106, 73 Queen's Park Crescent East, Toronto, ON M5S 1K7  
416-585-4508 phone/416-585-4459 fax  
vic.registrar@utoronto.ca  
www.vicu.utoronto.ca

Hours: Monday, Thursday: 9:30 a.m. - 4:30 p.m.; Tuesday: 9:30 a.m. - 6 p.m.; Wednesday: 10:00 a.m. - 4:30 p.m.; Friday: 9:30 a.m. - 4:00 pm

### Woodsworth College-Office of the Registrar

119 St. George Street, Toronto, ON M5S 1A9  
416-978-4444 phone/416-978-6111 fax  
wdwregistrar@utoronto.ca  
www.wdw.utoronto.ca

Hours: Monday, Wednesday, Thursday: 10 a.m.-5 p.m. (4:30 p.m. in July & August); Tuesday: 10 a.m.-6 p.m. (5:30 p.m. in July & August); Friday: 10 a.m.-4 p.m.

### Office of the Faculty Registrar

The Office of the Faculty Registrar works closely with departments and colleges concerning virtually all matters relating to Arts and Science students: it coordinates counselling, registration and enrolment, student records, transfer credit, petitions, final examinations and graduation. The Office of the Faculty Registrar, located in Sidney Smith Hall, 100 St. George Street, Room 1006, can provide general information about registration and enrolment, course listings, building and classroom locations, etc. It is also the location of the University of Toronto Transcript Centre, which produces transcripts for all divisions of the University.

# Student Services & Resources

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You can also get useful information about Arts and Science from the Faculty Registrar's web site ([www.artsci.utoronto.ca/current/undergraduate](http://www.artsci.utoronto.ca/current/undergraduate)). In addition, if you have questions about any aspect of your undergraduate experience, you can e-mail the Faculty Registrar at [ask@artsci.utoronto.ca](mailto:ask@artsci.utoronto.ca).

## Office of the Faculty Registrar/University of Toronto Transcript Centre

100 St. George Street, Toronto, ON M5S 3G3  
416-978-3384 phone, 416-978-2487 fax  
[ask@artsci.utoronto.ca](mailto:ask@artsci.utoronto.ca)  
[www.artsci.utoronto.ca/current/undergraduate](http://www.artsci.utoronto.ca/current/undergraduate)

Hours: Monday-Friday: 8:45 a.m.-5 p.m. (until 4:30 p.m. in July-August)

## Arts & Science Student Computer Program

Shopping around for a new computer? Want to take advantage of U of T's growing wireless environment?

Check out the Arts & Science Student Computer Program.

Find out more:

Visit: [www.studentcomputers.artsci.utoronto.ca](http://www.studentcomputers.artsci.utoronto.ca)

Email: [student.computers@artsci.utoronto.ca](mailto:student.computers@artsci.utoronto.ca)

Call: 416-978-4357 (HELP)

## Other Student Services Offices

### Accessibility Services: Programs and Services for Students with a Disability

Accessibility Services:  
Programs and Services for Students with a Disability  
Accessibility Services  
St. George Campus  
Robarts Library, 1st Floor  
130 St. George Street  
Toronto, Ontario M5S 3H1  
Voice: (416) 978-8060  
TDD: (416) 978-1902  
Fax: (416) 978-8246  
e-mail: [disability.services@utoronto.ca](mailto:disability.services@utoronto.ca)  
Web site: <http://disability.sa.utoronto.ca>

### University Commitment

The University, in its statement of institutional purpose, states: "The University of Toronto is dedicated to fostering an academic community in which the learning and scholarship of every member may flourish with vigilant protection for individual human rights, and a resolute commitment to the principles of equal opportunity." The University will make every attempt to provide reasonable and appropriate accommodations to persons who have disabilities. Faculty and staff carry a responsibility for creating and maintaining an inclusive environment in their teaching and work settings and responding appropriately to requests for accommodation of a disability. Accessibility Services provides support and advice for faculty and staff regarding appropriate accommodations, information about disabilities, and community resources.

### Responsibilities of Students who have Disabilities

Students who request accommodations for their academic programs and related activities at the University are obligated to disclose their disabilities to the respective campus Service for Students with Disabilities, and request accommodations in a timely manner to facilitate the implementation of support and services. It is vitally important that students discuss their needs as early as possible with the Service in order to put accommodations in place. Students must present relevant and up-to-date documentation, as outlined on the website, from an appropriate health care professional.

### Support Services for Students

There are offices on all three U of T campuses that work to facilitate the inclusion of students with disabilities into all aspects of university life. The focus is on skills development, especially in areas of self-advocacy and academic skills. Services are provided to students who have a physical, sensory, or learning disability; mental-health disability; acquired brain injury; or chronic-health condition, as well as students who have temporary disabilities such as a broken dominant arm.

The Service provides a wide range of support, including:

- Learning disability assessments
- Adaptive technology assessments
- Adaptive technology and assistive devices
- Alternative test and examination arrangements
- Volunteer note-taking services
- Sign-language interpreters
- Information on disability-related issues
- Liaison with academic and administrative offices within the University and with off-campus agencies
- On-campus transportation (St. George campus only)

To access the Service, students meet with an advisor to discuss individual needs, accommodations, and strategies for success. Where appropriate, eligible students are referred to one of the professionals on staff such as the Adaptive Technology Equipment Consultant, Learning Disability Specialist, or Occupational Therapist, for assessments to identify strategies and determine accommodations. Any information about a student's disability is confidential and is not shared outside the Service unless the student gives permission. Students are encouraged to meet and discuss their needs with their instructors.

There is a Bursary for Students with a Disability (BSWD) for students who have applied and established eligibility for OSAP. The BSWD helps students with disability-related educational costs while attending post-secondary institutions. To access the bursary, students meet with a Service advisor on their campus. University-funded alternate bursaries are also available for eligible support and services.

If you have any comments or suggestions, please feel free to contact Janice Martin, Manager at 416-978-8062 or by e-mail at [janice.martin@utoronto.ca](mailto:janice.martin@utoronto.ca)

# Student Services & Resources

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## **Career Centre Services**

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Career Centre  
Koffler Student Services Centre, 214 College Street  
(416) 978-8000  
[www.careers.utoronto.ca](http://www.careers.utoronto.ca)

The Career Centre offers a wide variety of programs and services to meet the career planning and employment needs of students and recent graduates. To access these programs and services, students are encouraged to register with the Career Centre web site at [www.careers.utoronto.ca](http://www.careers.utoronto.ca). Career Centre Online provides information on all upcoming events, allows student sign up for in-house workshops and seminars, practice interviews, resume clinics, career talk appointments and special events.

Summer/Part-time/Temporary Employment, and Volunteer Opportunities: Thousands of employment and volunteer opportunities are advertised on our web site that can help students gain valuable skills and experience.

Internships: Students looking for a career-related experience that offers an opportunity to work, receive training and mentoring, and opportunities to network are encouraged to view the internship database. Internship opportunities are listed in research, international development, social and community work, history, public service to name a few.

Graduating Students Employment Service: A number of Fortune 500 companies, government agencies and organizations who anticipate their hiring needs six-to- eight months in advance, come on campus to recruit the graduating class.

Recent Graduates Employment Service: This service assists recent University of Toronto alumni (up to two years) seeking immediate full-time employment by helping them develop an effective self-marketing plan. Employment opportunities listed with this service represent a cross-section of what is available in the current employment market.

Career and Employment Resources: The Career Resource Library has a unique and specialized collection of occupational, educational and employment related resources.

Career Counselling/Career Talks: Counsellors provide career development advice and coaching to students by helping them identify skills, clarify options, and teaching them how to research occupations.

Career Development and Employment Search Workshops: A variety of workshops are offered to assist students with career planning, conducting a strategic employment search, writing effective resumes and preparing for employment interviews.

Extern Career Exploration Program: A job shadowing opportunity allowing students to observe a professional in the workplace. Scheduled during Reading Week and in May.

Resume Clinic: Students preparing resumes and covering letters can have them reviewed before sending them out to potential employers.

Practice Interviews: Students interested in fine-tuning their interview skills can schedule a 30-minute one-on-one session with a counsellor and receive valuable feedback and tips on how to improve their performance.

Employer panels, Industry talks, Great Careers Series, and Career fairs: The Career Centre invites employers and recent alumni to come on campus and participate in events that will offer students and recent graduates insights, advice and networking opportunities. They are scheduled throughout the academic year.

Student Outreach Service: Special presentations can be arranged for specific departments and delivered on campus rather than at the Career Centre. A minimum of group size of 30 is required.

## **Counselling & Learning Skills Service**

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If you are dealing with personal matters such as, difficulties adjusting to university life, anxiety, depression, shyness, relationship problems, sex and gender concerns, disturbances resulting from abuse and assault, prolonged stress, and other personal difficulties and would like to speak, in confidence, with a professional counsellor then please come for a initial consultation at CALSS. No appointment is necessary if you come during the daily hours posted on our website or call our reception for information.

If your concerns involve academic difficulties then the learning skills program which includes lectures, workshops and individual consultation on time management, exams, textbook reading, note taking, concentration, memory and other aspects of study. Individual appointments for assistance with study problems can be arranged with our learning skills counsellors by calling our reception. Students may also use the Learning Skills Success Centre without an appointment (check our website for hour of operation). We also offer workshops for students whose performance on exams and in other areas is severely affected by anxiety. Pre-register for these at CALSS or telephone.

CALSS web site: <http://www.calss.utoronto.ca>  
CALSS Reception: 416-978-7970

## **Family Care Office**

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The Family Care Office at the University of Toronto provides free confidential information, guidance, referrals and advocacy for students, staff, faculty and their families. You can take advantage of free workshops, support groups and seminars. Our Resource Centre contains practical information on a broad range of family care issues, from pregnancy and infant care to lesbian and gay parenting, from special needs children to caring for elderly family members. The Family Care Office promotes an inclusive definition of family that embraces the diverse family structures that make up the University community.

The Family Care Office: Koffler Student Services Centre, 214 College Street.  
Phone: 416-978-0951  
E-mail: [family.care@utoronto.ca](mailto:family.care@utoronto.ca)  
Web site: [www.familycare.utoronto.ca](http://www.familycare.utoronto.ca)

## **First Nations House: Office of Aboriginal Student Services and Programs**

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“Leadership, Spiritual Growth & Academic Excellence”

First Nations House, is a dynamic place where Aboriginal students studying at U of T can seek culturally appropriate

# Student Services & Resources

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services. Founded in 1992, First Nations House has welcomed the university community to participate and learn about Aboriginal people and their culture.

The services provided include academic and financial counselling, traditional teachings, and tutoring. Students can also use the computer lab, the library and the kitchen. The Native Students Association is also located at First Nations House.

For more information, please contact:

First Nations House  
Borden Building North  
563 Spadina Ave., 3rd floor  
Toronto, ON M5S 2J7  
416-978-8227 (Main)

Web: [www.fnh.utoronto.ca](http://www.fnh.utoronto.ca)  
Email: [fnh.info@utoronto.ca](mailto:fnh.info@utoronto.ca)

## **First-Year Initiative Program (FYI)**

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(416) 946-0147  
214 College Street, Koffler Student Services Building  
<http://www.studentservices.utoronto.ca/fyi>

The First-Year Initiative Program is your front door to Student Services. FYI helps first-year students make a smooth transition into university through teaching effective study and learning skills, and providing workshops designed for first-year students on a variety of career, personal and psychological, housing, parenting, health, international and Aboriginal issues. A personalized web site is available to first-year students and provides a number of resources as well as discussion forums.

## **Health Service**

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Health Service offers U of T students the same services as a family doctor's office, and more. We provide confidential, student-centred health care including comprehensive medical care, travel education, immunization, counselling and referrals. The multi-disciplinary team includes family physicians, registered nurses, a health promotion nurse, peer health educators, a community health coordinator and a lab technician.

Comprehensive sexual health care and counselling is available, and prescriptions and contraceptive products can be purchased at a reduced cost. Emergency contraception, pregnancy testing, pregnancy support as well as sexually transmitted infection testing, treatment and education is also available. When you visit Health Service, bring your OHIP or UHIP card, or health card from another province, and your student card.

Health Service is located in the Koffler Student Services Centre at 214 College Street, Second Floor. To book an appointment, call 416-978-8030. If you feel you need to be seen more urgently, there is also a drop-in option.

For hours and other information, please visit the Health Service web site at [www.utoronto.ca/health](http://www.utoronto.ca/health).

## **International Student Centre**

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At the International Student Centre (ISC) all students are welcome to take part in social and cultural programs with an international focus, or just take a break from the pressures of studies. ISC's Work and Study Abroad resource centre, provides information on overseas programs. ISC also offers special

with the admission offer), reception service and orientation events, English language program, Newsletter, personal counselling and advice on non-academic concerns.

Contact:  
ISC, 33 St. George Street, Toronto, Ontario, M5S 2E3  
Telephone: 416-978-2564  
Web site: [www.isc.utoronto.ca](http://www.isc.utoronto.ca)

## **LGBTQ Resources & Programs Office**

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The Office of LGBTQ Resources & Programs office works with students, staff and faculty to provide programs, services, training, resources and outreach on issues related to the LGBTQ population at the University of Toronto.

The office develops initiatives and programming which support the lives of individuals at the University of Toronto who are lesbian, gay, bisexual, transgender or queer, or questioning their sexual orientation or gender identity. Our initiatives also focus on providing a positive learning and work environment for all that is free of discrimination and harassment. Any member of the University community is welcome to contact the office with concerns, complaints, issues or ideas. Services are provided confidentially to anyone experiencing a problem related to heterosexism or homophobia, or who has questions, educational needs or other related concerns.

Contact: Jude Tate, MSW  
Coordinator, LGBTQ Resources & Programs  
Email: [lgbtq.resources@utoronto.ca](mailto:lgbtq.resources@utoronto.ca)  
Phone: 416-946-5624

Room 302, 3rd Floor  
Koffler Student Services Centre  
214 College Street  
Toronto, Ontario M5T 2Z9

## **Office of the University Ombudsperson**

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As part of the University's commitment to ensuring that the rights of its individual members are protected, the University Ombudsperson investigates complaints from any member of the University not handled through regular University channels. The Ombudsperson offers advice and assistance and can recommend changes in academic or administrative procedures where this seems justified. In handling a complaint, the Ombudsperson has access to all relevant files and information and to all appropriate University officials. The Ombudsperson handles all matters in strict confidence, unless the individual involved approves otherwise. The Ombudsperson is independent of all administrative structures of the University and is accountable only to Governing Council.

The Ombudsperson is available by appointment at all three UofT campuses (for an appointment, please telephone or e-mail us). For additional information, please visit our website at: [www.utoronto.ca/ombudsperson](http://www.utoronto.ca/ombudsperson).

222 College Street, Suite 161, Toronto M5T 3J1  
Telephone: 416-978-4874  
E-mail: [ombuds.person@utoronto.ca](mailto:ombuds.person@utoronto.ca)

## **Psychiatric Service**

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The Psychiatric Service offers assessment and/or treatment for students with emotional and psychological concerns such



# Student Services & Resources

relationship difficulties, eating and body image issues, attention and/or concentration problems, problems with sleep and substance abuse.

Clinical staff possess expertise in a wide variety of therapeutic methods including individual, couple and group psychotherapy. This is a confidential service available to all full and part-time students who have paid their incidental fees and is fully covered by OHIP, other provincial insurance plans or the University health Insurance Plan (UHIP).

Psychiatric Service is located in the Koffler Student Services Centre at 214 College Street, Main Floor. No referral is necessary. To make an appointment, drop in or call 416-978-8070. For further information visit our Web site at [www.utoronto.ca/psychservices](http://www.utoronto.ca/psychservices).

## **Sexual Harassment Office**

Sexual harassment is unwanted sexual attention & includes any unwelcome pressure for sexual favours, or any offensive emphasis on the sex or sexual orientation of another person which creates an intimidating, hostile or offensive working or learning environment. The Sexual Harassment Office deals with complaints under the University's Policy & Procedures: Sexual Harassment. The policy covers complaints of harassment based on sex or sexual orientation, sets out a formal resolution procedure & provides for mediation, counselling & public education. Members of the University may also contact the office on an informal basis for information or assistance in resolving an issue.

Calls to the office, & the complaints procedure itself, are confidential.

You can contact the office just for advice or information: you are not committing yourself to any formal process.

Responsibilities of the Sexual Harassment Office include:

- providing information & advice to all parties regarding sexual harassment complaints;
- acting as a non-partisan mediator in complaints;
- providing referrals to other offices & resources when appropriate;
- initiating & conducting public education activities such as talks, workshops, & the distribution of resource materials.

3rd Floor, 40 Sussex Avenue

Telephone: (416) 978-3908, Fax Number: (416) 971-2289

Call to make an appointment.

Web Address: <http://www.utoronto.ca/sho/>

## **Student Housing Service**

The Student Housing Service on the St. George Campus and its web site serves as a year-round source of up-to-date housing information for off-campus, single student residence and student family housing.

### **Residence**

First year Arts & Science students apply for residence by indicating their interest in residence on their application for admission. It is advisable to apply for residence when you apply to the University - do not wait until you have been admitted. For more information on University of Toronto residences visit our housing website at [www.housing.utoronto.ca](http://www.housing.utoronto.ca).

### **U of T's Guarantee**

For the 2007/2008 school year, a residence offer will be guaranteed for all full-time students entering their first year of university in an undergraduate program, whether they live outside or inside Toronto, who are offered admission by July 1st, and who have indicated their interest in residence on their application for admission.

If you wish to be considered for residence, but did not indicate your interest on the application form, contact the Admissions and Awards office as soon as possible - do not wait until you have been admitted. If you have received your Admission to the University but did not indicate that you were interested in residence on your application form, contact the Student Housing Service.

The University does not guarantee an offer of residence to students who did not indicate an interest in residence until after they were admitted to U of T, or to those who are new to U of T but with previous university experience, such as transfer students. However, if they indicate an interest in residence, residence information and application procedures will be sent to them. The University will offer residence to this group of new students only once all students with the guarantee of residence have been accommodated.

### **Student Family Housing**

Family housing is available in 713 apartments on the St. George campus. Priority of these unfurnished apartments is given to students with a family. The term "family" refers to students residing with their dependent children and to childless couples in a permanent relationship. Students interested in living in U of T's Student Family Housing apartments should apply as soon as they are seriously considering attending the University - if possible before being given an offer of admission to the University, as the typical waiting period is 9 - 18 months. If you can move with less than two months' notice, the waiting period can be significantly shorter. Applications for Family Housing are available online at the Student Housing Service web site.

### **Off-Campus Housing**

The Student Housing Service has a registry of private and shared off-campus housing advertisements posted daily by private landlords and students. Students will search the ads in the registry like they would a classified section of a newspaper. Advertisements are usually posted 4 - 6 weeks in advance of the date when the unit becomes available. It generally takes students 1 - 3 weeks to locate suitable accommodation, depending on the type of housing desired and the student's budget. Most accommodations are located within 30-45 minutes travel time to campus, either by walking, cycling, or using public transit. Rooms in shared houses or apartments generally cost \$350 - \$600 per month. Students requiring private apartments should expect to pay \$550 - \$750 (Bachelor), \$700 - \$900 (One bedroom), \$900 - \$1300 (Two bedroom), or \$1300 - \$1800 (Three bedroom house/apartment). The office has telephones available for students to use free of charge to contact landlords and arrange an inspection of the accommodation. As well, there are also temporary accommodation lists, maps, legal resources, movers and more available to students at the housing office. Undergraduate and graduate students may also view the ads on the Student Housing website using their U of T student number and birth date to login.

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For more information on any housing-related issue, contact:

University of Toronto Student Housing Service  
Koffler Student Services Centre, 214 College Street  
Toronto, Ontario M5T 2Z9  
Telephone: (416) 978-8045  
Fax: (416) 978-1616  
E-mail: [housing.services@utoronto.ca](mailto:housing.services@utoronto.ca)  
Web site: [www.housing.utoronto.ca](http://www.housing.utoronto.ca)

## Student Exchange

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### The International Student Exchange Office (ISXO)

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#### The World Could Be Yours!

Arts & Science students in all departments are encouraged to participate in the international and Canadian exchanges offered through the International Student Exchange Office. These exchanges allow you to experience new cultures and languages in an academic setting while earning credits towards your U of T degree. Exchanges may be for one term or a full year, and most are open to both undergraduate and graduate students..

#### Cost

The cost of an exchange includes your U of T tuition plus incidental fees, along with the cost of living and studying abroad. While on exchange, you are still eligible to receive government assistance such as OSAP. There are also many specific scholarships and bursaries run by various U of T offices, and the ISXO itself administers a needs-based bursary program; for exchange students who qualify, this bursary will usually cover at least the cost of airfare.

#### Eligibility

In general, undergraduate or graduate U of T students who have completed at least one year of full-time studies, with a minimum CGPA of 2.25, are eligible to apply. You must also achieve a minimum annual GPA of 2.5 for the year during which you apply. A few exchange programs do have higher GPA cutoffs, and others have special language requirements.

#### Destinations

Arts & Science students may choose from over 130 universities in the following locations: Argentina, Australia, Austria, Belgium, Canada, Chile, China including Hong Kong, the Czech Republic, Denmark, England, Estonia, Finland, France, Germany, Ireland, Israel, Italy, Japan, Kenya, Korea, Mexico, the Netherlands, New Zealand, Norway, Poland, Scotland, Singapore, Spain, Sweden, Switzerland, Taiwan, the USA, Wales, and the West Indies. Please check our website for an up-to-date list of listing of our exchange partners.

#### Application

Applications for most programs are due mid-January, but you should always check the ISXO website regarding the specific exchanges that interest you.

For more information, please contact the ISXO:

Koffler Student Services Centre  
214 College Street, Room 202  
[www.utoronto.ca/student.exchange/](http://www.utoronto.ca/student.exchange/)  
[student.exchange@utoronto.ca](mailto:student.exchange@utoronto.ca)  
Telephone: 416-946-3138

## Summer Abroad Program

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### Where will you be next summer?

Prepare yourself for a future in the global village by participating in one of the highly rated Faculty of Arts & Science Summer Abroad programs. These programs are designed to enrich students' academic lives by providing an exciting and educational international experience.

### Locations

Administered through Woodsworth College, the 2007 programs are offered in:

- ◆ Australia (Sydney)
- ◆ Central Europe (based in the Czech Republic)
- ◆ China (Hong Kong)
- ◆ England (Oxford)
- ◆ Ecuador (Amazon & Galapagos)
- ◆ France (Tours)
- ◆ Germany (Berlin)
- ◆ Italy (Siena)
- ◆ Japan (Tokyo)
- ◆ Jordan (Madaba)
- ◆ Mexico (Guadalajara)
- ◆ Russia (Moscow)

Check the Summer Abroad web site in the fall to see the 2008 program list!

### Courses

Students take specially designed University of Toronto undergraduate degree credit courses, relevant to the location, for a period of 4 to 6 weeks. The courses have field trips that complement and highlight the academic materials. Courses are taught predominantly by University of Toronto professors and, with the exception of language courses, are offered in English. Typically, full-year second and third year courses are offered in disciplines such as history, political science, management, literature, architecture, fine art, religion, and languages. Most courses do not have pre-requisites.

All Summer Abroad courses and grades show on students' transcripts as regular U of T credits and are calculated into their CGPA.

### Application

All University of Toronto students in good standing are eligible to apply. There is no minimum GPA requirement.

Applications are available in early January. The application deadline for most programs is March 1, but spaces in some programs fill up well in advance. Late applications will be accepted if space and time permit.

Financial aid is available for most programs. The application deadline for awards offered through Woodsworth College is February 1.

For further information please contact:

Professional & International Programs  
Woodsworth College  
119 St. George Street, Room 231/233  
Phone: 416-978-8713  
E-mail: [summer.abroad@utoronto.ca](mailto:summer.abroad@utoronto.ca)  
Web: [www.summerabroad.utoronto.ca](http://www.summerabroad.utoronto.ca)

## **Professional Experience Year**

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The Professional Experience Year (PEY) provides students an opportunity to gain work experience in fields related to their programs of study. Full-time students with a CGPA of at least 2.0, with a minimum of 10.0, and a maximum of 15.0 full course equivalents, may apply to spend a twelve-to- sixteen-month period working in a related industry. This internship period normally occurs after second year for students completing a B.A./B.Sc., or after second or third year for students enrolled in an Hon. B.A./Hon. B.Sc. The 12 to 16-month period of employment, normally beginning in May, gives students the opportunity to become fully acquainted with the work environment. PEY students are often involved in challenging work projects from inception to completion, and are paid at competitive workforce salaries. They gain new insights into their academic and professional goals and return to their studies with a greater understanding of their discipline from a practical, hands-on perspective.

Students pay a one-time-only registration fee at the time of application. If a position is accepted, a placement fee will be required from the student at the time of fall registration, no later than the first Friday after classes begin in September. Incidental fees granting part-time student status and allowing continued access to University facilities and services are also required at fall registration. The PEY Program strives to provide opportunities for all students registered in it, but cannot guarantee employment. For further information, contact the PEY Office at 416-978- 6649 or visit [www.peyonline.com](http://www.peyonline.com).

## **Co-op Japan Program**

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The Co-op Japan Program is a Canadian university/college based, international co-op/internship program linking some of the best engineering, science, business and arts discipline undergraduate students from across the country with highly committed Japanese businesses. The Co-op Japan Program formally integrates an undergraduate student's Canadian academic studies with valuable work experience in a Japanese company. The program is open to universities and colleges nationally and is currently administered from The University of British Columbia.

The Co-op Japan Program's mandate is to provide Canadian undergraduate students with career-related work experience within a Japanese company during their undergraduate curriculum and at the same time to provide Japanese companies with the opportunity to employ highly capable and motivated Canadian undergraduate students.

The Program is open to undergraduate co-op students who meet certain eligibility requirements detailed on the program website. Applications can be made throughout the year for January, May or September start dates; students are encouraged to apply at least eight months prior to their requested start date.

For more information check the website at [www.thecoopjapanprogram.com](http://www.thecoopjapanprogram.com).

## **Student Unions and Associations**

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### **The Arts and Science Students' Union (ASSU)**

The Arts and Science Students' Union (ASSU) represents over 20,000 full-time undergraduates in the Faculty of Arts and Science on the St. George Campus. ASSU is an umbrella organization with 40 student Course Unions. Getting involved with a Course Union is the best way to be directly involved in your education and it's an excellent way to meet other students in your discipline. Annually, ASSU publishes student evaluations of courses and instructors in the ANTI-CALENDAR, which is free to all students. Other services include past final exams, lockers, photocopying, faxing and pop. Also, if you have any problems with your courses or instructors go to the ASSU office and discuss your options in complete confidence. ASSU is in Room 1068 Sidney Smith Hall; telephone 416-978-4903.

E-mail: [students.assu@utoronto.ca](mailto:students.assu@utoronto.ca)

Web site: [assu.ca](http://assu.ca)

### **The Association of Part-Time Undergraduate Students (APUS)**

All part-time undergraduate students at the University of Toronto are members of APUS. The role of the Association is to ensure its members have access to a broad range of services, programs and resources within the University. This is achieved by representing part-time students throughout the decision-making process of the University, and of governments, as well as by acting as a voice for the concerns of its members. APUS also offers a number of scholarships and bursaries to part-time students throughout the year, and services such as final exams and photocopying. The APUS office, in Room 1089 of Sidney Smith Hall, is open days and evenings during the summer and winter sessions. For further information telephone 416-978-3993.

## **Writer-In-Residence**

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Each year the University appoints a well-known Canadian writer to work with students, faculty and staff interested in creative writing. For further information, contact the Department of English, 416-978-3190.

## **Awards**

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For students with particularly noteworthy academic results, there are three specific forms of recognition:

### **Recognition of Exceptional Academic Achievement: "Dean's List"**

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This designation is given to degree students in the Faculty having a Cumulative Grade Point Average of 3.50 or higher, at the end of the Fall-winter or Summer Session in which the fifth, tenth, fifteenth and twentieth course, offered by the Faculty and taken for credit, has been passed.

The Dean of the Faculty sends a signed certificate to each student. There is no monetary value. Students who satisfy these criteria but do not receive the certificate at the end of the appropriate session should write to the Faculty Registrar, Faculty of Arts and Science, Sidney Smith Hall, 100 St. George St., Toronto ON, M5S 3G3. Dean's List certificates are not issued at the end of the Fall Session.

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

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Students who graduate with a Cumulative 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: the Cumulative GPA must be based on at least 5.0 credits taken in the Faculty and used for degree credit.

### Faculty Scholarships

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The Faculty offers many academically-based scholarships and other awards to exceptional degree students. Full details of these scholarships are available on the Faculty web site at [www.artsci.utoronto.ca/current/undergraduate](http://www.artsci.utoronto.ca/current/undergraduate).

### Faculty of Arts & Science Language Citation Program

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The University of Toronto is an ideal place for students to pursue the advanced study of languages. Our students live in a country that promotes multiculturalism, and our university is located in one of the world’s most diverse cities. We offer significant language opportunities in both ancient and modern languages. We also offer a variety of international academic programs and the number of such programs will expand. As our students seek further international study, work opportunities, and post-graduate study, they may be assisted by a notation on their academic record of language proficiency.

The Language Citation in the Faculty of Arts & Science is official recognition on a student’s transcript that the student has progressed to an advanced level in the study of a language, and has been assessed as achieving “good” results in that study. In particular, to achieve the Language Citation, a student must complete two full courses or their equivalent beyond the first-year level of language instruction, and must achieve at least a B- in each of the courses beyond the introductory level. The two full-course equivalents may be language instruction or may be those taught in the language to be assessed.

The Language Citation will consist of a notation on the transcript that reads: “Completed Requirements of Language Citation in [name of language].” This will appear in the Arts & Science sessional segment of the student’s academic record on the transcript describing the courses and marks for the session in which the Citation is assessed as complete.

Note that Language Citation is not a “program of study” or Subject Post, and will not satisfy the degree requirement that specifies the minimum programs of study to qualify for the degree. The Citation may be of interest to those who are completing programs involving language study, but it may also be of interest to those whose program interests lie elsewhere, but wish to have achievement in a language noted on their academic record.

The Language Citation will be available to students beginning with the graduating class of 2007. Students who have already graduated may be eligible if they return for further language study that contributes to the assessment of the Citation. The Citation will not be assessed for students who have completed their studies and have not re-enrolled.

To be assessed for the Language Citation, students should contact the department or program that will be assessing the language for the Citation. They should present a copy of their academic record, and indicate which courses they would like considered for the assessment. If students already have proficiency in a language and wish to move directly to courses beyond the introductory level, they should consult the relevant department about appropriate placement. Also, students wishing to include courses taken in the country where the language is spoken should consult the relevant department about appropriate study abroad options.

The Citation can be earned in any language, modern or ancient, which provides sufficient advanced training at the University of Toronto, provided the unit offering the instruction participates in the Citation. Courses taken at the University of Toronto Mississauga or University of Toronto Scarborough may also be

eligible for assessment for Arts & Science students.

The entries below identify the languages in which a student may currently request an assessment for a Language Citation and the department at which to inquire.

### Aboriginal Studies Program

Aboriginal Studies participates in the Faculty of Arts and Science's Language Citation Initiative for Ojibwa. The study of Ojibwa 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 Ojibwa is available to students who complete ABS 210Y1 and earn a grade of at least B- in ABS 310Y1 and ABS 301Y1.

Students should note that, as explained on page 20 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.

### Department of Classics

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 LAT 100Y1 (or the equivalent prerequisite training) and earn a grade of at least B- in LAT 201H1, 202H1 and any two LAT courses at the 300 level.

The Citation in Ancient Greek is available to students who complete GRK100Y1 (or the equivalent prerequisite training) and earn a grade of at least B- in GRK 201H1, 202H1 and any two GRK courses at the 300 level.

Students should note that, as explained on page 20 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. For the department's academic programs in Greek, Latin, Classics and Classical Civilization, see page 94.

### Department of East Asian Studies

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.

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 Chinese is available to students who complete EAS 100Y1 or EAS 101Y1 (or the equivalent prerequisite training) and earn a grade of at least B- in EAS 200Y1 or EAS201Y1 and EAS300Y1. The Citation in Japanese is available to students who complete EAS120Y1 (or the equivalent prerequisite training) and earn a grade of at least B- in EAS220Y1 and EAS 320Y1. The citation in Korean is available to students who complete EAS110Y1 (or the equivalent prerequisite training) and earn a B- in EAS210Y1 and EAS310Y1.

Students should note that, as explained on page 20 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. For the department's academic programs see page 122.

### Department of French

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 our Department students should have completed any two course among the following with a minimum mark of B-: FSL 300+, FRE200+.

Students should note that, as explained on page 20 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. For the department's academic program in French see page 173.

### Department of Germanic Languages and Literatures

The Department of German participates in the Faculty of Arts and 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 on page 20 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. For the department's academic program in German see page 200.

### Department of Italian Studies

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

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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 (ITA100Y1/101Y1/152Y1) (or the equivalent prerequisite training), earn a grade of at least B- in a second-year language course (ITA250Y1/251Y1/252Y1) and in one FCE in Italian language at the 300 or 400 level.

Students should note that, as explained on page 20 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. For the department's academic programs in Italian, see page 233.

### Department of Near & Middle Eastern Civilizations

The Department of Near & Middle Eastern Civilizations participates in the Faculty of Arts and Science's Language Citation initiative for Arabic, Persian, Ancient Egyptian, Ancient/Biblical Hebrew, and Modern Hebrew. The study of Ancient languages is a demanding and intellectually rewarding educational experience that makes available to the modern student the rich resources of classical texts in the original languages. The "living" languages offered by NMC provide invaluable insights into the varieties of human culture and expression and offer myriad directions in which to take the study of a foreign language.

Successful study of these languages demonstrates intelligence, discipline, analytical sophistication, and an excellent memory. 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 Ancient/Biblical Hebrew is available to students who complete NML150Y1 (or the equivalent prerequisite training) and earn a grade of at least B- in NML250Y1 and any 2 FCEs of the following additional Biblical Hebrew courses: NML251Y1, NML350Y1, NML351H1, NML352H1, NML353H1, NML354H1, NML359H1, NML450Y1.

The Citation in Ancient Egyptian is available to students who complete NML240Y1 (or the equivalent prerequisite training) and earn a grade of at least B- in NML340Y1 and any 2 FCEs of the following additional Ancient Egyptian courses: NML241Y1, NML440Y1, NML441Y1.

The Citation in Arabic is available to students who complete NML210Y1 (or the equivalent prerequisite training) and earn a grade of at least B- in NML310Y1 and any 2 FCEs of the following additional Arabic courses: NML410Y1, NML411H1, NML412Y1, NML413H1, NML414H1.

The Citation in Persian is available to students who complete NML260Y1 (or the equivalent prerequisite training) and earn a grade of at least B- in NML360Y1 and any 2 FCEs of the following additional Persian courses: NML460Y1, NML461H1, NML462H1. With the appointment of a Persian language and literature Lecturer commencing in July 2007, the departmental offerings will increase, adding a variety of electives.

The Citation in Modern Hebrew is available to students who complete NML155H1 and NML156H1 (or the equivalent prerequisite training) and earn a grade of at least B- in NML255Y1

and any 2 FCEs of the following additional Hebrew courses: NML355Y1, NML356Y1, NML357H1, NML358H1, NML451H1, NML452H1, NML455H1, NML465H1.

Students should note that, as explained on page 20 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. For the department's academic programs, see page 330.

### Department of Slavic Languages and Literatures (Slavic Languages, Finnish and Hungarian)

The Department of Slavic Languages and Literatures participates in the Faculty of Arts and Science's Language Citation initiative. Students may achieve this Citation in Croatian, Czech, Polish, Russian, Serbian, and Ukrainian. It may be possible to complete the citation in other languages, e.g., Finnish and Hungarian. 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.

#### Slavic

The Language Citation in Croatian or Serbian is available to students who complete either SLA307Y1 or SLA316Y1 plus an additional FCE, approved by the department, 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 Czech is available to students who complete SLA204Y1 and 305Y1 with a grade of at least B-.

The Language Citation in Polish is available to students who complete SLA206Y1, 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-, two FCEs: SLA220Y1, SLA320Y1, or SLA420Y1.

The Language Citation in Ukrainian is available to students who complete SLA208Y1 Finno-Ugric

The Language Citation in Finnish is available to students who

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complete FIN200Y1, FIN300H1, and FIN305H1 with a grade of at least B-.

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 on the page 20 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. For the department's academic programs see pages 164 (Finno-Ugric Studies) and 409 (Slavic Languages and Literatures).

### **Department of Spanish and Portuguese**

The Department of Spanish and Portuguese participates in the Faculty of Arts and Science's Language Citation initiative for Portuguese and Spanish.

#### **Portuguese**

To complete the language citation students will normally complete the two language-sequence courses that follow the introductory level:

PRT220Y1

PRT320Y1

#### **Spanish**

To complete the language citation students will normally complete the two language-sequence courses that follow the introductory level:

SPA220Y1

SPA320Y1

Native and bilingual speakers should complete SPA319Y1 and two additional half-courses in Spanish in the 300- or 400-series.

Students should note that, as explained on the page 20 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. For the department's academic programs see pages 386 (Portuguese) and 428 (Spanish).

**Degree Requirements**

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**Degree Requirements**

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Honours Bachelor of Arts/Honours Bachelor of Science .....25  
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Students completing a second Faculty of Arts & Science degree: please see “Second Degree Requirements” below.

In the requirements below the word “course” means one full course equivalent—a “full course” or two “half-courses”; in the Programs and Courses section, “full courses” are listed as Y1 courses, and “half-courses” are listed as H1 courses.

## Honours Bachelor of Arts/Honours Bachelor of Science

### General Degree Requirements

Please note: in the requirements below the word “course” means one full-course equivalent.

To qualify for an Honours Bachelor of Arts (Hon.B.A.) or Honours Bachelor of Science (Hon. B.Sc.), you must:

- (a) Obtain standing (i.e., receive 50% or more) in at least 20 courses that meet the following criteria:
  1. No more than six courses may be 100-series.
  2. At least six courses must be 300+series courses (no more than one 300+series transfer credit may be counted towards these six).
  3. No more than fifteen courses may have the same three-letter designator (“AST”, “ENG”, etc.).
- (b) Complete one of the following program requirements  
One specialist program (which includes at least one course at the 400-level)  
or  
Two major programs, which must include 12 different courses  
or  
One major and two minor programs, which must include 12 different courses  
or  
Students registered in the Faculty before the 2000-2001 session may also complete three minor programs, which must include 12 different courses; this option is discontinued for students registering for the first time in 2000-2001 and thereafter.  
Note: whether you receive an Hon. B.A. or an Hon. B.Sc. depends on the program(s) you complete; see Program Requirements, below.
- (c) Complete the Distribution Requirement (see page 27).
- (d) Obtain a Cumulative GPA of 1.85 or more by the time of graduation. Students who meet all the requirements for the Hon.B.A./Hon.B.Sc. except for the GPA requirement may elect to graduate with a B.A./B.Sc. degree provided they are In Good Standing (i.e., CGPA is 1.50 or more).

### Bachelor of Arts/Bachelor of Science

Effective for all students registered for the first time in a degree program in the Faculty of Arts and Science for the summer 2001 session and thereafter, the St. George Campus of the Faculty has discontinued the 15 course (three-year) B.A. and B.Sc. degrees. Students registered in a degree program in the Faculty before Summer 2001 may still choose a 15-course (three-year) degree; these students should consult their college registrar’s office.

Students with a B.A. or B.Sc. who return to upgrade that degree to an Hon. B.A. or Hon. B.Sc. must exchange the B.A. or B.Sc. for an Honours degree. A B.A. leads only to an Hon. B.A.; a B.A. CANNOT be upgraded to an Hon. B.Sc., and a B.Sc. CANNOT be upgraded to an Hon. B.A. Students who upgrade to an Honours degree are not eligible to attend the convocation ceremony for the upgrade.

Different degree regulations apply to students who first registered

in the Faculty before Winter Session 1992; these students should consult their College Registrar.

### Graduation

Students who expect to graduate at the end of a given session must use the Student Web Service or notify their College Registrars in writing to make their degree requests by the dates specified in the *Calendar*. Prospective graduands should receive the following documents from the University:

1. a Program of Study Assessment form (late April/early October) from the program sponsor;
2. a letter from the Office of Convocation providing details of the convocation ceremony (late March/mid-October);
3. a Statement of Results (or letter for non-registered students) from the Office of the Faculty Registrar confirming degree eligibility (early June/late October).

### “Second Degree” Requirements

Students must petition through their college by June 30 to begin a second degree. Before applying, students are urged to determine whether a second degree is actually required for their purposes; for example, a “make-up” year as a non-degree student may satisfy admission requirements for graduate school. Students are governed by the rules of the Faculty in place at the time they commence their second degree. Students who already hold a degree from the Faculty of Arts and Science, the University of Toronto Scarborough or the University of Toronto Mississauga may complete a second degree only of an alternate type (i.e. if a student has a B.A. degree then he/she may not complete a second B.A. degree). The Faculty normally exempts students from the first year of the degree requirements (five (5.0) credits: four 100-level and one 200-level), regardless of the number of previous degrees held. Second degree candidates may not repeat courses taken in a previous degree; they may however, count such courses towards satisfying pre-requisite and program requirements, on approval of the department/programs office concerned. A new Grade Point average will commence with the second degree courses.

### Program Requirements

Completion of a program of study (also known as a subject POST) 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.

#### Meaning of “Program”

Programs are groupings of courses in one or more disciplines; these groupings are listed with each college or department entry in the “Programs and Courses” section of this *Calendar*.

Types of programs are:

**Specialist Program:** a sequence of between 9 and 17.5 courses\* in one or more disciplines. Specialist programs must include at least four 300+series courses, one of which must be a 400-series course.

**Major Program:** a sequence of between 6 and 8 courses\* in one or more disciplines. Major programs must include at least two 300+series courses.

**Minor Program:** a sequence of 4 courses\* in one or more disciplines. Minor programs must include at least one 300+series course.

# Degree Requirements

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## PLEASE NOTE

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Courses may have prerequisites not listed in the program but which must be taken. Programs which list optional courses do not necessarily list 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.

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### Program Requirements

1. You must enrol in at least one and no more than three subject POSTs (of which only two can be majors or specialists), in the session in which you pass your fourth course (see the *Registration Handbook and Timetable* for details). Students admitted with transfer credit for four courses or more must do this immediately upon admission.)
2. You must meet any enrolment requirements for a program as stated in the *Calendar*. If you do not meet these requirements, you may be removed from the subject POSTs.
3. The subject POSTs(s) you complete determine whether you receive a science or an arts degree upon graduation. In the "Programs and Courses" section, each program indicates the type of degree to which it leads. For example, in the English section, the English Specialist listing is followed by "Arts program"; the Geology Major is followed by "Science program", etc.

To receive an Hon. B.Sc., for example:

One Specialist in a science area leads to an Hon. B.Sc.;

One Major in a science area plus one Major in an arts. area leads to either an Hon. B.Sc. or an Hon.B.A. - your choice (two Majors must include 12 different courses);

In combinations of one Major and two Minors, at least one Major, or both the Minors, must be in the Science area for an Honours Bachelor of Science (combinations must include 12 different courses).

### Note:

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.

### Self-Designed Programs

Students may design their own Programs, which must be substantially different from any Program in this *Calendar*. 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 Committee on Academic Standards, will be accepted as fulfilling the degree requirement for certification in a Program (transcripts indicate only "Completed Self-designed Programs 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 the fourth course in the Faculty.

## Bachelor of Commerce (B.Com.) Degree Requirements

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For the complete Commerce degree, program and course listing, see page 40.

## Bachelor of Commerce (B.Com.) Degree Requirements

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This is a four-year Honours program.

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

- (a) Complete twenty full-course equivalents, including no more than six 100-series courses;
- (b) Complete the Commerce and Finance Program (see below);
- (c) Complete the Faculty Distribution Requirement for B.Com. students (see below);
- (d) Complete five full course equivalents from disciplines outside of Management (MGT), Economics (ECO), and Commerce (COM); (courses taken to fulfill (b) and (c) may be also counted towards meeting this requirement; see also III in Commerce and Finance Program below).
- (e) Obtain standing (i.e., complete with a grade of 50% or more) in at least six 300- or 400-series courses, including at least one 400-series course (no more than one 300+series transfer credit may be counted towards these six).
- (f) Achieve a cumulative GPA of 1.85 or more by the time of graduation.

### Graduation

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Students who expect to graduate at the end of a given session must use the Student Web Service or notify their College Registrars in writing to make their degree requests by the dates specified in the *Calendar*. Prospective graduands should receive the following documents from the University:

1. a Program of Study Assessment form (late April/late August) from the program sponsor;
2. a letter from the Office of Convocation providing details of the convocation ceremony (late March/mid-October);
3. a Statement of Results (or letter for non-registered students) from the Office of the Faculty Registrar confirming degree eligibility (early June/early September).

### Faculty Distribution Requirement for B.Com. Students

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As part of the degree requirements for the B.Com., STUDENTS MUST COMPLETE ONE FULL COURSE EQUIVALENT IN EACH OF THE HUMANITIES, THE SOCIAL SCIENCES AND THE SCIENCES AREAS as defined below:

1. ONE full course equivalent must be from the Humanities (see Page 27).
2. ONE full course equivalent must be from the Social Sciences (MGT courses may be used to meet this requirement with the exception of MGT 120HI, 121HI and COM 110HI, which have NO Distribution Requirement status; see Page 27).
3. ONE full course equivalent must be from the Sciences (see Page 27), with the following exceptions:  
All 100-series courses in CSC, MAT, STA; STA 250HI, 255HI, 257HI, 352Y1.
4. NOTE: transfer students from University of Toronto Mississauga or Scarborough must meet the St. George Distribution Requirement.

## The Distribution Requirement

On the St. George Campus Arts and Science courses fall into three areas:

- Humanities
- Social Science
- Sciences

To qualify for any degree you must complete at least one full course equivalent in each of these three areas, for a total of 3.0 full course equivalents.

Courses that you take as part of your Specialist, Major or Minor programs may also be used to count towards the Distribution Requirement.

To help you understand the Distribution Requirement, there is a sample student course enrolment on next page.

The courses in these three areas are as follows:

### Humanities

Courses with the three-letter designators below are Humanities courses. (In addition, other designators have courses in more than one area; these designators are listed on the next page.)

- Architecture (ARC course designators)
- Art History (FAH course designators)
- Classics (CLA course designators)
- Drama (DRM course designators)
- East Asian Studies (EAS course designators)
- English (ENG course designators)
- Estonian (EST course designators)
- Finnish (FIN course designators)
- French (FCS, FRE, FSL course designators)
- German (GER course designators)
- Greek (GRK course designators)
- History (HIS course designators); except HIS 103Y1
- Humanities First-Year Seminars (HUM199 course designators)
- Hungarian (HUN course designators)
- Italian (ITA course designators)
- Latin (LAT course designators)
- Music (MUS, HMU, TMU course designators)
- Near & Middle Eastern Civilizations (NMC and NML course designators)
- Philosophy (PHL course designators)
- Portuguese (PRT course designators)
- St. Michael's College Courses (SMC course designators)
- Slavic Languages & Literatures (SLA course designators)
- Spanish (SPA course designators)
- Visual Studies (VIS course designators; listed with Art)
- World Literature (WLD course designators)

### Social Science

Courses with the three-letter designators below are Social Science courses. (In addition, other designators have courses in more than one area; these designators are listed on the next page.)

- Archaeology (ARH course designators)
- Economics (ECO course designators)
- Mathematics: MAT 123H, 124H and 133Y are Social Science courses; ALL other MAT are Science courses
- Management (MGT course designators), except MGT 120H, 121H, 123H, which have NO Distribution Requirement status)
- Political Science (POL course designators)
- Sociology (SOC course designators)
- Social Science First Year Seminars (SSC 199Y1 course designators)
- Woodsworth College (WDW course designators)

### Science

Courses with the three-letter designators below are SCIENCE courses. (In addition, other designators have courses in more than one area; these designators are listed on the next page.) Some restrictions in the applicability of 100-series Science courses apply to B.Com. students; see the Commerce Programs listing starting on page 40 of this *Calendar* for more information.

- Actuarial Science (ACT course designators)
- Anatomy (ANA course designators)
- Applied Mathematics (APM course designators; listed with Mathematics)
- Astronomy (AST course designators)
- Biochemistry (BCB, BCH course designators)
- Biology (BIO course designators); except JBS 229H
- Cell & Systems Biology (CSB course designators)
- Chemistry (CHM course designators)
- Computer Science (CSC course designators)
- Ecology & Evolutionary Biology (EEB course designators)
- Geology (GLG course designators)
- Human Biology (HMB course designators); all HMB courses except HMB438H1 and 498Y1, which are both Humanities and Social Science courses
- Immunology (IMM course designators)
- Laboratory Medicine & Pathobiology (LMP course designators)
- Mathematics (MAT course designators); all Mathematics courses except 123H, 124H, 133Y1, which are Social Science courses)
- Materials Science (MSE course designators)
- Molecular Genetics & Microbiology (MGY course designators)
- Nutritional Sciences (NFS course designators)
- Pharmacology (PCL course designators)
- Pharmaceutical Chemistry (PHC course designators); all PHC courses except PHC470H1, which is a Social Science course)
- Physical Education & Health (PHE course designators)
- Physics (PHY course designators)
- Planetary Science (PLN course designators)
- Physiology (PSL course designators)
- Psychology (PSY course designators)
- Science First-Year Seminars (SCI199 course designators)
- Statistics (STA course designators); all STA courses except 220H, 221H, 250H, 255H, 257H, JBS 229H which have NO Distribution Requirement status)

# Degree Requirements

## Courses Which Can Fall in More than One of the Three Areas

To find which area each course is in, check the individual course descriptions:

- Aboriginal Studies (ABS course designators)
- Anthropology (ANT course designators)
- Asia-Pacific Studies (ASI course designators)
- Diaspora & Transnational Studies (DTS course designators)
- Environment (ENV course designators)
- European Studies (EUR course designators)
- Geography (GGR course designators)
- History & Philosophy of Science and Technology (HPS course designators)
- Innis College (INI course designators)
- Interdisciplinary First Year Seminars (INXI99HI/YI course designators)
- Joint courses (JXX course designators)
- Latin American Studies (LAS course designators)
- Linguistics (LIN course designators)
- New College (NEW course designators)
- Religion (RLG course designators)
- Trinity College (TRN course designators)
- University College (UNI course designators)
- Victoria College (VIC course designators)
- Women and Gender Studies (WGS course designators)

## Sample Student Course Enrolment Allowing for Distribution Requirements

Sokit wants to do a major in political science and a major in anthropology. She needs ANT 100Y1 for the first year of an anthropology major and POL 103Y1 or 105Y1 or 108Y1 for the first year of the political science major. She is also interested in sociology, so chooses SOC 101Y1.

The ANT, POL, and SOC courses are in Social Sciences, so they fulfill that part of the Distribution Requirement. She needs the following to fulfill the rest of her Distribution Requirement:

- One course from Humanities
- One course from Sciences

Sokit thinks that a History course would be a useful complement to her Political Science interest; at the same time it will fulfill the Humanities Distribution Requirement, so she enrolls in HIS 104Y1: Ten Days that Shook the World.

To fulfill the Science Distribution Requirement she chooses ENV 200Y1: Science and the Environment.

Sokit's first year courses (and their respective Distribution Requirement areas) are thus as follows:

ANT 100Y1	Introduction to Anthropology (Social Science)
ENV 200Y1	Assessing Global Change (Sciences)
HIS 104Y1	Ten Days that Shook the World (Humanities)
POL 105Y1	Ethics & the Public Sphere (Social Science)
SOC 101Y1	Introduction to Sociology (Social Science)

Sokit's course choices fulfill the first year course requirements for the programs she wants to pursue; they also fulfill all three Distribution Requirements, giving her lots of flexibility in future years.

## Humanities Courses for Science and Social Science Students

These courses are especially designed for science and social science students to fulfill the Humanities Distribution Requirement; none of them has OAC/Grade 12 prerequisites.

### CLA201HI Latin and Greek in Scientific Terminology 39L

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.

### CLA203HI Science in Antiquity 39L

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.

### CLA204HI Introduction to Classical Mythology 39L

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.

Exclusion: CLA205Y1

### CLA206HI Ancient Astronomy 39L

The rise, development, and practical applications of the study of the heavens in Mesopotamia, Egypt, and the Greco-Roman world.

### FCSI95HI French Culture from Napoleon to Asterix 26S

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.

### FCS298HI French Culture and Asia 26S

From the arrival, in 17th century, of magnificent porcelain from the East to the borrowings of contemporary fashion designers, French culture has been exposed to Asian influences which have become part of the national fabric. This course explores some of these manifestations in literature, film and the arts.

### HPS100HI Introduction to History and Philosophy of Science 26L, 13T

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.

### HPS201HI Origins of Western Technology 26L, 13T

Technology and its place in our culture from Antiquity to the beginnings of the Industrial Revolution. Relations between technology and science, religion, the arts, social institutions, and political beliefs.

This is a Humanities course

### HPS202HI Technology in the Modern World 26L, 13T

A survey of technical change and its social implications from the Industrial Revolution to the present.

Recommended preparation: HPS201HI

**HPS210HI Scientific Revolutions I 26L, 13T**  
(formerly HPS200YI)

Case studies in the history of science from antiquity to 1800, including the revolutionary work of Copernicus, Kepler, Galileo, Descartes, Newton, Linnaeus, Lavoisier, and Herschel. The course is designed to be accessible to science students and non-scientists alike.

Exclusion: HPS200YI

**HPS211HI Scientific Revolutions II 26L, 13T**  
(formerly HPS200YI)

Case studies in the history of science from 1800 to 2000, including Volta, Lyell, Darwin, Mendel, Einstein, Schrödinger, Watson, and Crick. The course is designed to be accessible to science students and non-scientists alike.

Exclusion: HPS200YI

**HPS250HI Introductory Philosophy 26L, 13T**  
of Science

This course introduces and explores central issues in the philosophy of science, including scientific inference, method, and explanation. Topics may include underdetermination, realism and empiricism, and laws of nature.

This is a Humanities course

**HUM199HI/ First Year Seminar**  
YI

The Faculty offers several different sections of HUM 199HI/YI, open only to students newly-admitted to the St. George campus of the Faculty. Check the *First-Year Handbook* for detailed course descriptions.

**JEF100YI The Western Tradition 78S**

An introduction to literature through major works of the Western literary tradition. What constitutes a literary "classic"? How have the great concerns of the Western tradition — human nature, its place in society, its mythmaking, its destiny — been represented in literature? These and other questions are examined by reference to 11-12 works, from ancient times to the twentieth century, by such authors as: Homer, Sophocles, Ovid, Virgil, Dante, Shakespeare, Cervantes, Molière, Austen, Dostoevski, Kafka, Camus, Beckett and Márquez. (A joint course offered by the Departments of English and French.)

**Science Courses for Humanities & Social Science Students**

These courses are especially designed for humanities and social science students to fulfill the Science Distribution Requirement; none of them has OAC/Grade 12 prerequisites.

**AST101HI The Sun and Its Neighbours 26L**

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: AST121HI, 210HI, 221HI. Also excluded are CIV101HI, any 100- or higher-series CHM/PHY courses taken previously or concurrently (with the exception of PHY100HI, 101HI, 201HI, 205HI, CHM200YI)

**AST201HI Stars and Galaxies 26L**

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: AST121HI, 210HI. Also excluded are CIV101HI and any 100- or higher-series CHM or PHY courses taken previously or concurrently (with the exception of PHY100HI, 101HI, 201HI, 205HI, CHM200YI)

**AST210HI Great Moments in Astronomy 26L**

The history of Western astronomy: 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 ends with an outline of one of the most significant puzzles of our day and an examination of the potential for a new revolution in knowledge in our lifetime.

Exclusion: AST101HI, 121HI, 201HI

**CSB200YI Current Topics in Molecular 52L, 26P**  
Biology

This course is intended to provide non-science students with an understanding of basic concepts in molecular biology to allow them to explore, and analyze current scientific issues and controversies covered in the media and relevant to society at large.

This course counts as a Science Distribution Requirement for students in all years and disciplines; particularly suitable for Humanities and Social Science students.

Exclusion: BIO250YI/255YI

**CSC104HI The Why and How of 26L, 13T**  
Computing

An introduction to computing for non-computer scientists. History of computing machinery; representation of data and their interaction with operations; hardware, software, operating systems; problem solving and algorithms; social issues in computing; a gentle introduction to programming. This course is an introduction to becoming actively engaged with computing, not a tutorial on using particular computer applications.

Exclusion: SMC104HI; VIC104HI; any CSC course.

**EEB202HI Plants and Society 26L**  
(formerly BOT202YI)

The continuing impact of new scientific technologies on society through changes in agriculture. Plant biology and domestication, genetic resource conservation, biological invasions, environmental pollution, genetic engineering, and biotechnology. Evaluation of the ecological implications of advances in modern plant science.

Exclusion: BIO150Y/BOT202YI

This course counts as a Science Distribution Requirement for students in all years and disciplines.

**EEB214HI Evolution and Adaptation 26L, 12T**  
(formerly ZOO214YI)

Evolution and adaptation through natural selection. Concepts and application based on faunal life goals of habitat survival, food acquisition, predator avoidance, and reproduction. Topics include: speciation, mutation, co-evolution, symbiosis, pollination, cannibalism, parasitism, eusociality, and sexual and parental conflict. Essays, debates, and reading required.

Exclusion: BIO150YI/323HI/EEB323HI/ZOO214YI/324YI

This course counts as a Science Distribution Requirement for students in all years and disciplines.

**EEB215HI Conservation Biology 26L, 13T**  
(formerly ZOO215HI)

Introduction to the scientific discipline that deals with threats, losses and recovery of endangered wildlife. Topics include: biodiversity, extinction, demography, genetic diversity, nature reserves, captive breeding; also endangered species laws, moral philosophies, and political, economic and social justice issues surrounding biodiversity. Essays and reading required.

Exclusion: EEB/BIO 365HI/ZOO215HI

This course counts as a Science Distribution Requirement for students in all years and disciplines.

# Degree Requirements

**EEB216HI Marine Mammal Biology and Conservation (formerly ZOO216HI) 26L, 12T**  
 Introduction to ecological, evolutionary, physiological, and anatomical adaptations of marine mammals to their aquatic environment. Issues of conservation and environmental biology will also be covered. In tutorials the use of anatomical specimens (skulls, teeth, etc.) will be supplemented with video and other teaching tools.  
 Prerequisite: Biology 12 or equivalent  
 Exclusion: BIO/ZOO 216HI/252Y1; SCI199Y1: Marine Mammals in Their Environment  
 This course counts as a Science Distribution Requirement for students in all years and disciplines.

**ENV200Y1 Assessing Global Change: Science and the Environment 52L, 12T**  
 The perspective scientists bring to the understanding and resolution of environmental concerns having global implications: atmospheric systems and climate change, the biosphere and conservation of biodiversity.  
 Exclusion: BIO150Y1 (applies only to students in Arts & Science)  
 This Science course is intended to fulfill the environmental literacy requirement for students in the BA programs of the Centre for Environment or the science distribution course requirement for Commerce, Humanities and Social Science students.

**GLG103HI Geology in Public Issues 26L**  
 Geologic hazards: earthquakes, volcanoes, landslides, tsunamis. The distribution and politics of natural resources, including petroleum and ore deposits. Nuclear power and nuclear waste disposal. Global change: the geologic record of hot and cold climates, and how the earth survives.  
 GLG103HI is primarily intended as a science Distribution Requirement course for Humanities and Social Science.

**GLG105HI Evolution of the Earth: Controversy over the Last 2300 Years 26L**  
 The evolution of ideas about the origin and development of the earth from the Athenians to the 20th Century. With attention on whether the earth has an infinite or a finite life; on the evolution and disappearance of species; on the origin of oceans, continents and mountains; on the forces that have shaped the earth's surface; and on the courage of scientists in confronting the religious and political views of their time.  
 GLG105HI is primarily intended as a science Distribution Requirement course for Humanities and Social Science students.

**GLG110HI Introductory Geology 26L**  
 The nature and evolution of the Earth; plate tectonics; rocks and minerals; volcanism; geological time; fossils; geology of Ontario; environmental issues.  
 Exclusion: GLG 102HI  
 GLG110HI is primarily intended as a science Distribution Requirement course for Humanities and Social Science students

**GLG205HI Confronting Global Change 26L, 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.  
 GLG205HI is primarily intended as a science Distribution Requirement course for Humanities and Social Science students

**HPS100HI Introduction to History and Philosophy of Science 26L, 13T**  
 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.

**HPS210HI Scientific Revolutions I (formerly HPS200Y1) 26L, 13T**  
 Case studies in the history of science from antiquity to 1800, including the revolutionary work of Copernicus, Kepler, Galileo, Descartes, Newton, Linnaeus, Lavoisier, and Herschel. The course is designed to be accessible to science students and non-scientists alike.  
 Exclusion: HPS200Y1

**HPS211HI Scientific Revolutions II (formerly HPS200Y1) 26L, 13T**  
 Case studies in the history of science from 1800 to 2000, including Volta, Lyell, Darwin, Mendel, Einstein, Schrödinger, Watson, and Crick. The course is designed to be accessible to science students and non-scientists alike.  
 Exclusion: HPS200Y1

**JUM202HI Mathematics as an Interdisciplinary Pursuit (formerly JUM102HI) 26L, 13T**  
 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. (Offered every three years)  
 Exclusion: JUM102HI  
 JUM202HI is particularly suited as a Science Distribution Requirement course for Humanities and Social Science students.

**JUM203HI Mathematics as Recreation (formerly JUM103HI) 26L, 13T**  
 A study of games, puzzles and problems focusing on the deeper principles they illustrate. Concentration is on problems arising out of number theory and geometry, with emphasis on the process of mathematical reasoning. Technical requirements are kept to a minimum. A foundation is provided for a continuing lay interest in mathematics. (Offered every three years)  
 Exclusion: JUM103HI  
 JUM203HI is particularly suited as a Science Distribution Requirement course for Humanities and Social Science students.

**JUM204HI Mathematics and Poetry 39L**  
 An interdisciplinary exploration of creativity and imagination as they arise in the study of mathematics and poetry. (Offered every three years)  
 Exclusion: JEM204HI  
 JUM204HI is particularly suited as a Science Distribution Requirement course for Humanities and Social Science students.

**JUM205HI Mathematical Personalities (formerly JUM105HI) 26L, 13T**  
 An in-depth study of the life, times and work of several mathematicians who have been particularly influential. Examples may include Newton, Euler, Gauss, Kowalewski, Hilbert, Hardy, Ramanujan, Gödel, Erdős, Coxeter, Grothendieck. (Offered every three years)  
 Exclusion: JUM105HI  
 JUM205HI is particularly suited as a Science Distribution Requirement course for Humanities and Social Science students.

## **PHY100HI The Magic of Physics 26L, 13T**

In 1915 Einstein presented a quartet of papers that revolutionized our understanding of gravity. He commented: "Hardly anyone who has truly understood this theory will be able to resist being captivated by its magic." The General Theory of Relativity is not the only theory of physics that is magical, and Einstein was not physics' only magician. We uncover the wonders of the classical and the quantum world courtesy of Galileo, Newton, Maxwell, Einstein, Heisenberg and others. Topics include planetary motion, chaos, the nature of light, time travel, black holes, matter waves, Schrödinger's cat, and quarks. No mathematics is required, and any necessary elementary classical physics is reviewed.

Exclusion: PHY110Y1/I38Y/I40Y taken previously or concurrently  
PHY100HI is primarily intended as a Science Distribution

Requirement course for students in the Humanities and Social Sciences.

## **PHY101HI Emergence in Nature 26L, 13T**

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.

Exclusion: PHY110Y1/I38Y/I40Y taken previously or concurrently  
PHY101HI is primarily intended as a Science Distribution

Requirement course for students in the Humanities and Social Sciences.

## **PHY201HI Concepts of Physics 26L, 13T**

A conceptual overview of some of the most interesting advances in physics and the intellectual background in which they occurred.

The interrelationship of the actual practice of physics and its cultural and intellectual context is emphasized.

PHY201HI is primarily intended as a Science Distribution

Requirement course for students in the Humanities and Social Sciences.

## **PHY205HI The Physics of Everyday Life 26L, 13T**

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.

Exclusion: PHY110Y1/I38Y/I40Y taken previously or concurrently  
PHY205HI is primarily intended as a Science Distribution

Requirement course for students in the Humanities and Social Sciences.

## **SCI199HI First Year Seminar Courses**

**Y1**

The Faculty offers many sections of SCI 199HI/Y1, open only to students newly-admitted to the St. George Campus of the Faculty. Check the *First-Year Handbook* for detailed course descriptions.

## **Guide to Programs and Courses**

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### **Guide to Programs & Courses**

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# Guide to Programs and Courses

## Definition of “Course” in this Calendar

In these two pages the word “course” is used in two senses:

1. In reference to a single course (such as “standing in a course” etc.) “course” refers equally to a full course or a half course.
2. In reference to a given number of courses (such as the requirement of obtaining standing in at least 20 courses for an HBA or HBS) “courses” refer to FULL courses OR the equivalent number in FULL AND HALF courses combined. To “pass a course” or “obtain standing in a course” normally means to obtain a mark of 50 or more in that course.

## Codes used in the Program of Study Listings

“Specialist Program (X full courses or their equivalent);” “X” is the number of courses required for that program out of the total of 20 courses needed for an Hon. B.A. or Hon. B.Sc.

“Major Program (X full courses or their equivalent);” “X” is the number required for that program out of the total of 20 courses needed for an Hon. B.A. or Hon. B.Sc.

“First Year”, “Second Year”, etc.: Sequences of courses are given as guides, but need not be followed in the exact order listed, provided all pre- and co-requisites are observed.

Higher Years = Second, Third and Fourth Years

An oblique stroke (“/”) means “or”. A comma and a semi-colon both mean “and”.

200-series = courses numbered in the 200’s ONLY;

200+series = courses in the 200’s or 300’s or 400’s

300+series = courses numbered in the 300’s or 400’s

Approved = approved by the college or department sponsoring the program

Group = a group of related courses; Groups are at the end of the relevant program listings

Courses = full courses or the equivalent in full and/or half courses.

The code YI or HI in a course code in this *Calendar* indicates the credit value:

YI = a full course, for which one credit is given, e.g., ANT 100YI;

HI = a half course, for which one-half credit is given, e.g., HIS 321HI.

## Choosing Courses

NOTE: While Departmental counsellors and College Registrars are always available to give advice, THE ULTIMATE RESPONSIBILITY RESTS WITH THE STUDENT for completeness and correctness of course selection, for compliance with exclusions, prerequisite and co-requisite requirements, for completion of Program details, for

proper completion of the Distribution Requirement, and for observance of regulations, deadlines, etc. Students are responsible for seeking guidance from a responsible officer if they are in any doubt; misunderstanding, misapprehension or advice received from another student will not be accepted as cause for dispensation from any regulation, deadline, Program or Degree requirement.

### Please Note:

1. The Council of the Faculty of Arts and Science reserves the right to change the content of, or to withdraw, any course. In such cases every effort is made to provide equivalent alternative instruction, but this cannot be guaranteed.
2. The Faculty reserves the right to limit the number of students in any course or any section of a course if the number wishing to take the course should exceed the resources available. Notwithstanding this, every effort is made to accommodate students in 100-series courses.

## Key to Course Descriptions

Course descriptions, in alphabetical order by Department/ College, are listed in the “Programs and Courses” section starting on page 37. For an explanation of terms and abbreviations used in these descriptions, including prerequisites, co-requisites, exclusions, etc., see below. Students may choose from among these courses, subject to the following rules:

1. Students must satisfy the degree and program requirements and other regulations set out in the *Calendar* and its supplements.
2. Students must meet all prerequisite, co-requisite and exclusion requirements.
3. Students may take no more than six 100-series courses for degree credit.

### Number of Courses Taken (“Course Load”)

Students may proceed towards the degree at a rate of their own choosing, except as provided below:

1. The recommended course load for full-time students in each of the Fall and Winter Sessions is no more than five courses.
2. The recommended course load during the Summer Session is a maximum of two courses.
3. Students “On Academic Probation” may take no more than five courses in each of the Fall and Winter Sessions except as provided under “students restricted to a reduced course load” (see 4. below).
4. Students restricted to a reduced course load on admission may take no more than 2.5 courses over the Fall-Winter Sessions. They may take no more than 3 course activities in a Fall or Winter Session unless approved by their College Registrar. They may take a maximum of 1.0 courses in the Summer Session. Students restricted to part-time studies who wish to transfer to full-time studies should consult with their College Registrar.)
5. Students should attempt to balance their course load between the Fall-Winter Sessions.

# Guide to Programs and Courses

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- To calculate course loads, students should consult this *Calendar* together with the *Registration Handbook & Timetable*.  
The code "YI" or "HI" in a course code in the *Calendar* indicate the credit value:  
YI = a full course, for which one credit is given, e.g., ANT 100YI  
HI = a half-course, for which one-half credit is given, e.g., HIS 332HI
- In the *Timetable* a section code is associated with a course code to indicate when the course is offered:  
F = first half of the Fall-Winter Sessions (Sept-Dec), or first half of the Summer Session (May-June), e.g., HIS 322HI F  
S = second half of the Fall-Winter Sessions (Jan-Apr), or second half of the Summer Session (July-Aug), e.g., HIS 322HI S  
Y = Fall and Winter sessions, or First and Second subsessions of the Summer Session, e.g., ANT 100YI Y
- Students should note that courses designated as "...YI F" or "...YI S" in the *Timetable* are particularly demanding.
- Full-time students (except those in 3. and 11.) may select a sixth course during the second round of course enrolment (see the *Registration Handbook and Timetable* for details).
- Students are advised to use discretion in adding any more courses to their program than the number recommended in 1. and 2. Students will not receive special consideration of any kind on account of a course overload. Examination schedules may be affected by a course overload.
- In each of the Fall and Winter Sessions, students who are in good standing may add additional courses, beyond six, through their College Registrar. In the Summer Session, students may add additional courses, beyond two, through their College Registrar. The College Registrar, following Faculty guidelines, has the discretion to approve such requests. Note: students enrolled in Commerce and Computer Science subject POSTs cannot add additional courses.
- Students are not allowed a sessional course activity overload in any session until they have completed four full courses in the Faculty. This applies to first year students and transfer students from other institutions.

## "Extra" and "Supplemental" Courses

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Each course counts for credit towards a degree unless:

- the course is a 100-series course and the maximum of SIX 100-series courses allowable for degree credit has already been completed; it will then be designated as an "Extra". "Extra" courses have no effect on status or Grade-Point Average; or
- advance permission has been given by petition for a course to be taken as an "Extra" course. Students may not petition to have completed courses designated as "Extra", nor will they be removed from the record. "Extra" courses have no effect on status or Grade-Point Average; or
- more than the maximum number of courses allowed with the same designator have been passed. These "supplemental" courses will count in the grade point average, program and distribution requirements.

## Year of Study

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The University of Toronto uses the following to define the year equivalency and therefore the academic status of a student:

4th year St. George degree student: has completed 14.0 full course equivalents or more;

3rd year St. George degree student: has completed 9.0 to 13.5 full course equivalents;

2nd year St. George degree student: has completed 4 to 8.5 full course equivalents;

1st year St. George degree student: has completed less than 4 full course equivalents.

## Full/Part-Time Status

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### Part-time status

A student enrolled in 2.5 full course equivalents or fewer for the Fall-Winter sessions is considered to be part-time.

A student enrolled in 1.0 full-course equivalents or fewer for the Summer session is considered to be part-time.

### Full-time status

A student enrolled in 3.0 full course equivalents or more for the Fall-Winter sessions is considered to be full-time.

A student enrolled in 1.5 full-course equivalents or more for the Summer session is considered to be full-time.

## Cancelling Courses, Repeating Courses, Courses Outside the Faculty and University

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For further information on these matters see pp. 473-474..

## Codes Used in the Course Descriptions

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### Course Designators

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Course designators are the three-letter codes which appear at the beginning of each course code (e.g., CHM is the designator for chemistry courses; PHL for philosophy courses).

All courses are listed in the following pages by sponsoring department in alphabetical order. See the Table of Contents for a complete listing of sponsoring departments, and page 38 for a full alphabetical list of programs available to students in the Faculty.

### Course Number

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The course number generally indicates the level of difficulty, e.g., a 100-series course normally indicates an introductory course, a 400-series course is an intensive course at the senior level. In some departments several courses may have the same general title; in these cases, the numbers are listed together, separated by "/" which means "OR"; for instance, "ECO 350Y1/351HI/352HI" = ECO 350Y1 OR ECO 351HI OR ECO 352HI, each one being a seminar on a selected subject.

# Guide to Programs and Courses

## **“YI” and “HI” Course Suffixes**

The codes “YI” or “HI” in a course code in the *Calendar* indicate the credit value:

YI = a full course, for which one credit is given, e.g., ANT 100YI

HI = a half-course, for which one-half credit is given, e.g., HIS 322 HI.

## **Types and Duration of Instruction**

L= Lectures

S= Seminars

P= Practical work in laboratories or studios

T= Tutorials

In the Fall-Winter Sessions the normal period of instruction is 26 weeks; the Fall Session lasts 13 weeks, and the Winter Session lasts 13 weeks. The number preceding the instruction codes opposite the course number and title indicates the total number of hours of instruction given in the course. The number of hours listed is approximate only; the actual contact hours of a course, or of different sections of a course, may vary from the number indicated in the *Calendar*, due to the size of the class or section, and the use being made of the tutorial or practical components of the class. This variation is at the discretion of the “course sponsor” (the college or department sponsoring the course); any questions concerning the allotment of hours in a course should be addressed to the course sponsor.

## **Prerequisites, Co-requisites, etc.**

Students are responsible for fulfilling prerequisites and co-requisites; 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 must also observe exclusions. Failure to meet these requirements may result in academic difficulties. If students withdraw from a course they must also withdraw from any course for which it is a co-requisite unless the Department giving the latter course agrees to waive the co-requisite.

## **Explanation of Symbols**

The comma (,) the semi-colon(;), the ampersand (&) and the plus sign (+) all mean “AND”. The slash (/) means “OR”.

## **Exclusions**

Students may not enrol in a course if that course lists as an exclusion a course they are currently taking or a course they have already passed. If allowed by special permission to enrol in an excluded course, the second course taken will be listed as an “Extra” course. Students will be required to withdraw from the course if discovered during the session of enrolment and will be refused degree credit in the excluded course if discovered at any time in a subsequent session.

## **Prerequisite**

A course (or other qualification) required as preparation for entry to another course. If students consider that they have equivalent preparation, they may ask the Department concerned to waive the stated prerequisite.

## **Co-requisite**

A requirement to be undertaken concurrently with another course. The co-requisite will be waived if a student has previously obtained standing in it, or if the Department consents.

## **Recommended Preparation**

Background material or courses that may enhance a student’s understanding of a course.

The next page shows a course description in diagram form, with explanations of all the various symbols.

## **Section Code**

Section codes do not appear in the *Calendar*. In the *Registration Handbook & Timetable*, however, a section code is listed with a course code to indicate when the course is offered:

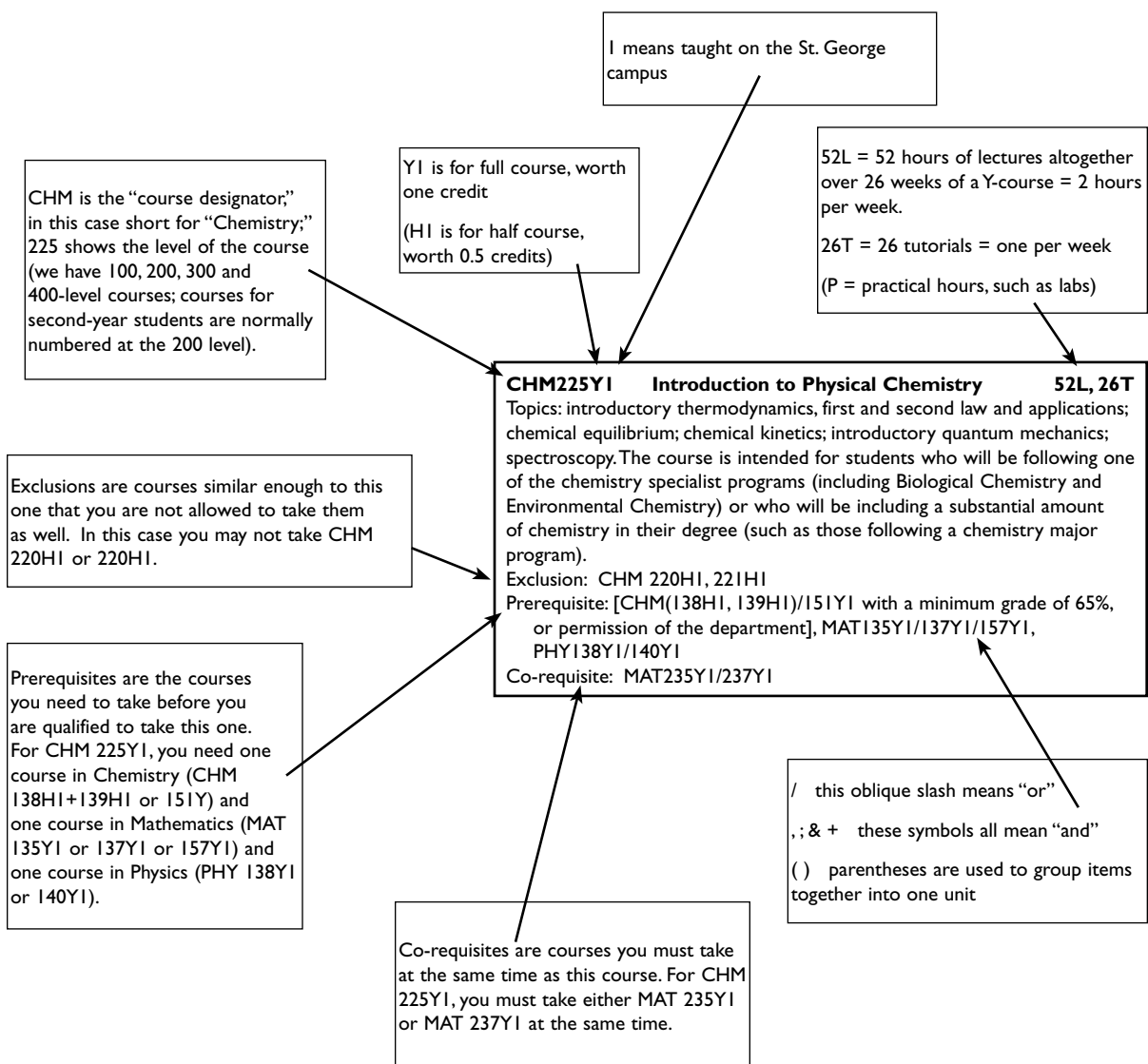
F = first half of the Fall-Winter Sessions (Sept-Dec), or first half of the Summer Session (May-June), e.g., HIS 322HI F

S = second half of the Fall-Winter Sessions (Jan-Apr), or second half of the Summer Session (July-Aug), e.g., HIS 322HI S

Y = Fall and Winter sessions, or First and Second subsessions of the Summer Session, e.g., ANT 100YI Y

# Guide to Programs and Courses

## How to Read a Course Description



## Arts and Science Programs & Courses

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<b>Sponsoring Department/College/Program Office</b>		Life Sciences . . . . .	248
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Research Opportunity Program . . . . .	47	Life Sciences: Botany . . . . .	258
Independent Experiential Study Program . . . . .	47	Life Sciences: Cell & Systems Biology . . . . .	259
Aboriginal Studies . . . . .	48	Life Sciences: Ecology & Evolutionary Biology . . . . .	265
Academic Bridging Program . . . . .	51	Life Sciences: Human Biology . . . . .	273
Actuarial Science . . . . .	52	Life Sciences: Immunology . . . . .	279
American Studies . . . . .	54	Life Sciences: Laboratory Medicine & Pathobiology . . . . .	281
Anatomy . . . . .	249	Life Sciences: Molecular Genetics & Microbiology . . . . .	284
Anthropology . . . . .	55	Life Sciences: Nutritional Sciences . . . . .	288
Archaeology . . . . .	64	Life Sciences: Pharmaceutical Chemistry . . . . .	290
Architectural Studies . . . . .	66	Life Sciences: Pharmacology & Toxicology . . . . .	292
Art (Art History & Visual Studies) . . . . .	70	Life Sciences: Physiology . . . . .	296
Asia-Pacific Studies, Dr. David Chu Program in . . . . .	83	Life Sciences: Psychology . . . . .	300
Astronomy & Astrophysics . . . . .	84	Life Sciences: Zoology . . . . .	308
Biochemistry . . . . .	250	Linguistics . . . . .	309
Bioinformatics & Computational Biology . . . . .	251	Materials Science . . . . .	314
Biology . . . . .	255	Mathematics . . . . .	316
Botany . . . . .	258	Molecular Genetics & Microbiology . . . . .	284
Cell & Systems Biology . . . . .	259	Modern Languages & Literatures . . . . .	326
Chemistry . . . . .	87	Music . . . . .	327
Classics . . . . .	94	Near & Middle Eastern Civilizations . . . . .	330
Comparative Literature . . . . .	100	New College . . . . .	343
Computer Science . . . . .	101	Nutritional Sciences . . . . .	288
Diaspora & Transnational Studies . . . . .	103	Paradigms & Archetypes . . . . .	343
Drama . . . . .	118	Pharmaceutical Chemistry . . . . .	290
East Asian Studies . . . . .	122	Pharmacology & Toxicology . . . . .	292
Ecology & Evolutionary Biology . . . . .	265	Philosophy . . . . .	350
Economics . . . . .	131	Physical Education & Health . . . . .	360
English . . . . .	141	Physics . . . . .	361
Environment, Centre for . . . . .	150	Physiology . . . . .	296
European Studies . . . . .	163	Planetary Science . . . . .	370
Finno-Ugric Studies . . . . .	164	Political Science . . . . .	371
Forest Conservation . . . . .	169	Portuguese . . . . .	386
French . . . . .	173	Psychology . . . . .	300
Geography . . . . .	183	Religion . . . . .	389
Geology . . . . .	195	St. Michael's College . . . . .	400
German . . . . .	200	Slavic Languages & Literatures . . . . .	409
Greek . . . . .	94	Sociology . . . . .	419
History . . . . .	204	Spanish . . . . .	428
History & Philosophy of Science & Technology . . . . .	221	Statistics . . . . .	433
Human Biology . . . . .	273	Trinity College . . . . .	437
Immunology . . . . .	279	University College . . . . .	441
Innis College . . . . .	225	Victoria College . . . . .	452
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Joint Courses Listing . . . . .	243	Woodsworth College . . . . .	465
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		Zoology . . . . .	308



## Programs and Courses

The next section contains detailed information about the programs of study and courses offered by the Faculty of Arts and Science, St. George campus. This, for reference, is an alphabetical listing of all programs of study, which includes the level and title of the program. For example,

Level	Title	Page
SPE/MAJ/MIN	African Studies	343

means that you can take a Specialist, Major or Minor program in African Studies. The program is sponsored by New College; details about program requirements and course descriptions are available beginning on page 343.

Level	Title	Page	Level	Title	Page
SPE/MAJ/MIN	Aboriginal Studies	48	SPE	Computer Science: Foundations Option	101
SPE/MAJ	Actuarial Science	52	SPE	Computer Science: Information Systems Option	101
SPE/MAJ/MIN	African Studies	343	SPE	Computer Science: Software Engineering Option	101
MAJ/MIN	American Studies	54	SPE	Computer Science: Comprehensive Option	101
SPE/MAJ/MIN	Anthropology	55	SPE/MAJ	Criminology	465
SPE/MAJ	Anthropology (Biological)	55	MAJ/MIN	Croatian & Serbian Studies	409
MAJ	Anthropology (Linguistic & Semiotic)	55	MAJ/MIN	Czech & Slovak Studies	409
SPE	Anthropology (Social & Cultural)	55	SPE	Developmental Biology	259
SPE	Applied Mathematics	316	MAJ	Dr. David Chu Program In Asia-Pacific Studies	83
SPE	Applied Physics	361	MAJ/MIN	Diaspora & Transnational Studies	103
SPE/MAJ	Archaeological Science	64	SPE/MAJ/MIN	Drama	118
SPE	Archaeology	64	SPE	Earth Systems: Physics & the Environment	150
MAJ	Architectural Studies (Design)	66	SPE/MAJ/MIN	East Asian Studies	122
MAJ	Architectural Studies (History, Theory, Criticism)	66	SPE	Ecology	265
SPE	Astronomy & Physics	84	MAJ	Ecology & Evolutionary Biology	265
MAJ/MIN	Astronomy and Astrophysics	84	MAJ/MIN	Economic History	131
SPE	Behaviour	265	SPE	Economic History & Economics	131
SPE/MAJ	Biochemistry	250	SPE/MAJ/MIN	Economics	131
SPE/MAJ/MIN	Bioethics	350	SPE	Economics & Geography	131
SPE	Biogeography	183	SPE	Economics & Mathematics	131
SPE	Bioinformatics & Computational Biology	250	SPE	Economics & Philosophy	131
SPE	Biological Chemistry	87	SPE	Economics & Political Science	131
SPE/MAJ/MIN	Biology	255	SPE	Economics & Sociology	131
SPE	Biophysics	361	SPE	Economics & Statistics	131
MAJ/MIN	Book & Media Studies	400	SPE	Economics (Commerce & Finance)	40
SPE/MAJ/MIN	Botany	255	SPE	Economics (Quantitative Methods)	131
MIN	Buddhism, Psychology & Mental Health	343	MIN	Education & Society	452
SPE/MAJ	Buddhist Studies	389	SPE/MAJ	Employment Relations	465
MIN	Business German	200	SPE/MAJ/MIN	English	141
SPE/MAJ/MIN	Canadian Studies	441	SPE	English & Drama	141
SPE/MAJ/MIN	Caribbean Studies	343	SPE	English & Linguistics	141
SPE	Cell Biology	259	SPE	English & Philosophy	141
SPE/MAJ/MIN	Celtic Studies	400	SPE	Environment & Health	150
SPE	Chemical Physics	87	SPE/MAJ	Environment & Resource Management	183
SPE/MAJ/MIN	Chemistry	87	SPE/MAJ/MIN	Environment & Science	150
SPE	Chemistry & Geology	87	SPE/MAJ/MIN	Environment & Society	150
SPE/MAJ/MIN	Christianity & Culture	400	SPE	Environment & Toxicology	150
MIN	Christianity & Culture: Christianity and Education	400	MIN	Environmental Anthropology	150
MAJ	Christianity & Culture: Religious Education	400	MIN	Environmental Biology	150
SPE/MAJ/MIN	Cinema Studies	225	SPE/MIN	Environmental Chemistry	150
MAJ/MIN	Classical Civilization	94	MIN	Environmental Economics	150
SPE/MAJ	Classics	94	MAJ/MIN	Environmental Ethics	150
SPE/MAJ	Cognitive Science	441	SPE/MAJ/MIN	Environmental Geosciences	150
SPE	Cognitive Science & Artificial Intelligence	441	SPE/MAJ/MIN	Environmental Policy & Practice	150
SPE	Commerce & Finance (B.Com.)	40	MAJ	Equity Studies	343
MAJ	Commerce (B.A.)	40	MIN	Estonian Studies	164
SPE	Comparative Animal Physiology	259	MAJ	Ethics, Society & Law	437
SPE/MAJ	Computer Science	101	MAJ	European Studies	163
SPE	Computer Science & Economics	101	MIN	European Union Studies	163
SPE	Computer Science & Mathematics	101	SPE	Evolutionary Biology	265
SPE	Computer Science & Physics	101	SPE	Financial Economics	131
SPE	Computer Science & Statistics	101	SPE/MAJ/MIN	Fine Art (History of Art)	146
SPE	Computer Science: Artificial Intelligence Option	101			

## Programs and Courses

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SPE/MAJ/MIN	Forest Conservation	169	SPE/MAJ/MIN	Mediaeval Studies	400
SPE/MAJ/MIN	Forest Conservation Science	169	SPE	Molecular Genetics & Microbiology	284
SPE	French & German	173	SPE	Molecular Plant Biology	259
SPE	French & Italian	173	SPE/MAJ	Music	327
SPE	French & Portuguese	173	MIN	Music History & Culture	327
SPE	French & Russian	173	SPE/MAJ	Music with Ensemble Option	327
SPE	French & Spanish	173	SPE/MAJ/MIN	Near and Middle Eastern Civilizations	330
MIN	French as a Second Language	173	SPE	Neuroscience	273
MIN	French Cultural Studies	173	SPE/MAJ	Nutritional Science	288
SPE/MAJ	French Language & Linguistics	173	MIN	Paradigms & Archetypes	343
SPE/MAJ	French Language & Literature	173	SPE	Past Environments	150
MAJ	French Second Language Learning	173	SPE	Pathobiology	281
MIN	French Studies	173	SPE/MAJ	Peace & Conflict Studies	441
MIN	French Translation	173	SPE	Pharmaceutical Chemistry	290
MIN	Geographic Information Systems	183	SPE/MAJ	Pharmacology	292
SPE/MAJ/MIN	Geography	183	SPE	Pharmacology & Toxicology	292
SPE/MAJ/MIN	Geology	195	SPE/MAJ/MIN	Philosophy	350
SPE	Geology & Physics	195	SPE	Philosophy & Political Science	350
SPE	German & Italian	200	SPE	Philosophy & Religion	350
SPE	German & Russian	200	SPE	Philosophy & Sociology	350
SPE	German & Spanish	200	SPE	Philosophy of Science	350
SPE/MAJ/MIN	German Studies	200	SPE/MAJ/MIN	Physical & Environmental Geography	183
MAJ/MIN	Greek	94	SPE/MAJ/MIN	Physics	361
SPE/MAJ	Health Studies (B.A.)	441	SPE	Physics & Philosophy	361
SPE/MAJ	Historical & Cultural Geography	183	MAJ	Physics (General)	361
SPE/MAJ/MIN	History	204	SPE/MAJ/MIN	Physiology	296
MAJ	History & Philosophy of Science & Technology	221	SPE	Planetary Science	370
SPE	History & Political Science	204	SPE	Polish & French	409
SPE	Human Biology: Genes, Genetics & Biotechnology	273	SPE	Polish & German	409
SPE	Human Biology: Global Health	273	SPE	Polish & Russian	409
SPE	Human Biology: Health & Disease	273	MAJ/MIN	Polish Language & Literature	409
MAJ	Human Biology	273	MAJ/MIN	Polish Studies	409
SPE	Human-Computer Interaction	101	SPE/MAJ/MIN	Political Science	371
MAJ/MIN	Hungarian Studies	164	SPE	Political Science & Sociology	371
SPE	Immunology	279	SPE/MAJ/MIN	Portuguese	386
MAJ	International Development Studies	150	SPE	Portuguese & Spanish	386
SPE/MAJ	International Relations	437	MAJ	Prehistoric Archaeology	64
SPE	International Relations Program/Peace & Conflict Studies Program	437	SPE/MAJ/MIN	Psychology	300
SPE/MAJ/MIN	Italian	233	SPE	Psychology (Research Specialist)	300
SPE	Italian & Portuguese	233	SPE/MAJ/MIN	Religion	389
SPE	Italian & Russian	233	SPE	Religion: Christian Origins	389
SPE	Italian & Spanish	233	SPE/MAJ/MIN	Renaissance Studies	452
MIN	Italian Culture & Communication Studies	233	MIN	Russian Language	409
MAJ	Italian Second Language Learning	233	SPE/MAJ/MIN	Russian Language & Literature	409
SPE/MAJ/MIN	Jewish Studies	241	MIN	Russian Literature in Translation	409
MAJ/MIN	Latin	94	MAJ/MIN	Semiotics & Communication Theory	452
MAJ	Latin American Studies	245	MAJ/MIN	Sexual Diversity Studies	441
MIN	Life & Environmental Physics	361	SPE	Slavic Languages	409
SPE/MAJ/MIN	Linguistics	309	SPE	Slavic Languages & Literatures	409
SPE	Linguistics & Computing	309	SPE/MAJ/MIN	Sociology	419
SPE	Linguistics & French	309	SPE	Sociology & Urban Studies	419
SPE	Linguistics & Italian	309	SPE/MAJ/MIN	South Asian Studies	343
SPE	Linguistics & Philosophy	309	SPE/MAJ/MIN	Spanish	428
SPE	Linguistics & Spanish	309	SPE/MAJ/MIN	Statistics	433
SPE	Linguistics and German	200	SPE/MAJ	Toxicology	292
MAJ/MIN	Literary Studies	452	SPE	Ukrainian & French	409
SPE	Literary Studies & Philosophy	452	SPE	Ukrainian & German	409
SPE	Materials Science	314	SPE/MAJ/MIN	Ukrainian Language & Literature	409
SPE/MAJ/MIN	Mathematics	316	SPE/MAJ/MIN	Urban Studies	225
SPE	Mathematics & Its Applications	316	SPE/MAJ	Urban, Economic & Social Geography	183
SPE	Mathematics & Philosophy	316	SPE/MAJ/MIN	Visual Studies	70
			SPE/MAJ/MIN	Women and Gender Studies	461
			MIN	Writing & Rhetoric	225
			MIN	Al & Malke Green Program in Yiddish	200
			SPE/MAJ/MIN	Zoology	255

# Commerce

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## Collaborative Program of the Faculty of Arts and Science and the Rotman School of Management

Faculty from the Rotman School of Management who teach in the Commerce Programs are listed below. For the list of faculty from the other major participant in the Commerce Program, the Department of Economics, see page 131.

### Faculty

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#### Professor Emeritus

J.H.G. Crispo, B Com, Ph D

#### Professor and Director of the Programs

W. Rotenberg, MBA, Ph D

#### Professors

T.L. Amburgey, BS, MA, Ph D  
J.H. Amernic, B Sc, MBA, FCA  
O. Berman, BA, Ph D  
L. Booth, MA, MBA, DBA  
D.J.S. Brean, MBA, M Sc, Ph D  
J. Callen, BA, MBA, Ph D  
J-C Duan, BS, MBA, Ph D  
I. Horstmann, BA, Ph D  
D. Krass, BA, MSE, Ph D  
A.A. Mitchell, BA, Ph D  
D.A. Ondrack, MBA, Ph D  
G. Richardson, BA, MBA, Ph D  
B. Silverman, AB, SM, MA, Ph D  
W. Smieliauskas, MS, Ph D  
A. Verma, B Tech, MBA, Ph D  
Glen Whyte, LLB, MPhil, MA, MBA, Ph D

#### Associate Professors

K. Corts, BA, Ph D  
D.W. Greeno, MBA, Ph D (W)  
S. Hawkins, BA, MS, Ph D  
R. Kan, MBA, Ph D  
M. Rindisbacher, BA, M Sc, Ph D  
M. Rotundo, BA, MIR, Ph D  
M. Shi, BS, MSIA, MBA, Ph D  
K. Wang, MA, Ph D  
P. Zhang, B Sc, MA, M Acc, Ph D

#### Assistant Professors

O. Baron, B Sc, MBA, PhD  
J. Berdahl, MA, Ph D  
A. Ching, B. Econ, MA, Ph D  
S. Côté, B Sc, MA, PH D  
K.B. Dahlin, M Sc, Ph D  
S. Davydenko, M.SC, MA, Ph D  
F. Derrien, Ph D  
C. Doidge, B Com MSC, Ph D  
A. Goldfarb, MA, Ph D  
L. Han, BA, MA, Ph D  
M. Lederman, BA, Ph D  
G. Leonardelli, BA, MA, Ph D  
H. Lu, BE, MS, MBA, Ph D

S.A. McCracken, B Com, Ph D, CA  
J. Oesch, B Sc, M Ed, MBA, M Sc, Ph D  
L. Pomorski, BA, MA, Ph D  
D. Segal, BA, Ph D  
T. Simcoe, AB, MA  
A. Wojnicki, B Com, MBA, DBA  
C. Zhong, BA, MA, Ph D

#### Senior Lecturers

J. Kitunen, BBM, CA  
D.L. Losell, MBA, CA  
C. Reed, MA, CMA (University of Toronto Mississauga)  
M.S. Schneider, LLB, MBA, CA (University of Toronto Mississauga)

#### Lecturers

E. Zuliani, B Com, CA

#### Adjunct Professor

D. Dunne, B Com, Ph D  
H. Honickman, B Com, CA

The U of T commerce program selects from among the best and brightest students and provides them with an education that is unparalleled in the country. The commerce program partners the internationally renowned business school, the Rotman School of Management, with Canada's top economics department. All of this in the context of Canada's foremost research university, located in the heart of the business community just minutes away from Bay Street and steps from Queen's Park.

The commerce programs combine economics and the various sub-disciplines of business and government management enabling students to develop analytical skills and gain a knowledge of institutions. This background is useful for solving problems and making decisions in business and government environments.

Commerce graduates frequently become economists, accountants, actuaries, financial analysts, marketing analysts, managers of firms and government, or proprietors of small businesses. Some 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.

Associate Director: L. MacTavish, 105 St. George Street, Room 111 (416-978-3339)

Enquiries: 105 St. George Street, Room 111 (416-978-3339)

E-mail: [commerce.info@utoronto.ca](mailto:commerce.info@utoronto.ca)



## Bachelor of Commerce (B.Com.) Degree Requirements

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

- Complete twenty full-course equivalents, including no more than six 100-series courses;
- Complete the Commerce and Finance Program (see below);
- Complete the Faculty Distribution Requirement for B.Com. students (see below);
- Complete five full course equivalents from disciplines outside of Management (MGT), Economics (ECO), and Commerce (COM); (courses taken to fulfill (b) and (c) may be also counted towards meeting this requirement; see also III in Commerce and Finance Program below).
- Obtain standing (i.e., complete with a grade of 50% or more) in at least six 300- or 400-series courses, including at least one 400-series course (no more than one 300+series transfer credit may be counted towards these six).
- Achieve a cumulative GPA of 1.85 or more by the time of graduation.

### Graduation

Students who expect to graduate at the end of a given session must use the Student Web Service or notify their College Registrars in writing to make their degree requests by the dates specified in the Calendar. Prospective graduands should receive the following documents from the University:

- a Program of Study Assessment form (late April/late August) from the program sponsor;
- a letter from the Office of Convocation providing details of the convocation ceremony (late March/mid-October);
- a Statement of Results (or letter for non-registered students) from the Office of the Faculty Registrar confirming degree eligibility (early June/early September).

### Faculty Distribution Requirement for B.Com. Students

As part of the degree requirements for the B.Com., STUDENTS MUST COMPLETE ONE FULL COURSE EQUIVALENT IN EACH OF THE HUMANITIES, THE SOCIAL SCIENCES AND THE SCIENCES AREAS as defined below:

- ONE full course equivalent must be from the Humanities (see Page 27).
- ONE full course equivalent must be from the Social Sciences (MGT courses may be used to meet this requirement with the exception of MGT 120HI, 121HI and COM 110HI, which have NO Distribution Requirement status; see Page 27).
- ONE full course equivalent must be from the Sciences (see Page 27), with the following exceptions:  
All 100-series courses in CSC, MAT, STA; STA 250HI, 255HI, 257HI, 352YI.
- NOTE: transfer students from University of Toronto Mississauga or Scarborough must meet the St. George Distribution Requirement.

## Commerce Programs

### Notes

- Tuition fees for students enrolling in the Commerce programs from 2001 onwards will be higher than for other Arts and Science programs.
- MAT 133Y1/(123HI, 124HI) are courses which satisfy the minimum Program requirements. Students who are likely to enrol in 200+ series MAT courses are advised to take MAT 137Y1 instead, noting that MAT 137Y1 is a theoretically oriented course for Specialists in Mathematics and mathematically based disciplines such as Actuarial Science.
- Enrolment in the Commerce and Finance Program is limited. The majority of spaces each year will be reserved for students admitted to first-year studies in Commerce. A limited number of places will be available for other Arts and Science students not admitted to first year Commerce; these students normally apply for admission in April of their first year.

#### o First Year Commerce:

These students will be guaranteed a space in the Program after first year provided they complete – upon first attempt – a minimum of four credits with a cumulative grade point average of at least 2.00 (about a C). In order to maintain the guarantee into the commerce program, students must attain a minimum grade in the three required courses: ECO 100Y1 with at least 67%, MGT 120HI with at least 63%, and MAT 133Y1 with at least 50%. Students must also complete COM 110HI.

#### o All other students must meet the following admission requirements:

- Complete MGT 120HI with a mark of at least 63% and ECO 100Y1, with a mark of at least 67%
  - Complete one of MAT 133Y1/135Y1/136Y1/137Y1/(123H, 124H)/(125H, 126H), with a mark of at least 50%
  - Complete a minimum of 4.0 credits
  - Obtain an average on first attempt in MGT 120HI, ECO 100Y1 and MAT 133Y1 (or equivalent) of at least B-, whether the courses were taken at U of T or awarded as transfer credits
  - Obtain a CGPA to be determined each year based on all courses taken for credit in the Faculty of Arts and Science
  - Complete on-line applicant profile and pay application fee
- Commerce students are limited to a maximum of 6.0 credits in the Fall/Winter session

### Commerce and Finance (B.Com)

#### Specialist program:

(14 to 15 full courses or their equivalent out of 20 courses, for a B.Com.)

First Year:

- COM 110HI; MGT 120HI; ECO 100Y1
- MAT 133Y1/(123HI, 124HI)/135Y1/137Y1/157Y1
- Students are encouraged to take one course towards the Distribution Requirement (above) in First Year

Higher Years:

- Additional MGT Component (5.0 full courses or their equivalent)
  - MGT 220HI, 223HI, 337Y1
  - 1.0 course from: MGT 252HI, 262HI, 353HI, 363HI, 371HI, 374HI, 393HI
  - 1.0 400-series MGT course
  - 1.0 additional 200+ series MGT course

# Commerce

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5. No more than 15 COM, MGT and ECO courses may be taken for degree credit. STA 250HI, 255HI, 257HI, 261HI count as ECO courses.
- II: Additional Economics Component (5 full courses or their equivalent)
1. ECO 204YI/206YI
  2. ECO 209YI
  3. ECO 220YI/227YI/STA (250HI, 255HI)/(257HI, 261HI)
  4. 2.0 300+ series ECO full course equivalents, no more than one of which may be a course in Economic History (see III.below).
- III: Writing Component (2 full courses\* or their equivalent)  
Two full course equivalents in English from the courses below:

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### Writing Courses:

ANT 204YI; CLA (except 201HI); ENG; ECO\* 301YI/302HI/303YI/307HI/308HI/309HI/321Y/342YI/353YI/354HI/355HI/423HI/429YI/435HI; FAH; FCS; HIS; HPS; HUM 199Y; INI all "Cinema Studies" and "Writing and Rhetoric" courses; LIN; NEW all "Equity Studies" and "Humanism" courses; PHL (except 245HI, 246HI, 247HI, 344HI, 345HI, 346HI); POL (except 242YI); RLG; SMC (except language courses); SOC (except 101Y); TRN 190Y, 200YI; UNI all "Canadian Studies", "Peace and Conflict Studies" and "Sexual Diversity Studies" courses; VIC; WDW all "Criminology" courses; WGS; WRT 307HI.

\* Note: Only 1.0 300 or 400-level ECO history course can count towards the Major in Economics.

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### Economics (Commerce and Finance) (B.Com.)

This Program may only be taken conjointly with the Specialist Program in Commerce and Finance (above). Students must be accepted to and remain in the Commerce and Finance (B.Com.) Program in order to complete the Economics (B.Com.) Program.

### Note

Enrolment in this Program is limited to students with 70% in ECO 100YI and (63% in MAT 133YI or 55% in MAT 137YI) and 63% in MGT 120HI and a minimum cumulative GPA of 2.3.

### Specialist program:

(15.5 courses in a program of 20 full courses or their equivalent)

#### First Year:

COM 110HI; ECO 100YI; MAT 133YI/135YI/137YI/157YI; MGT 120HI

#### Higher Years:

- I: Additional MGT Requirements (5.0 full courses or their equivalent):
1. MGT 220HI, 223HI, 337YI
  2. 1.0 course from MGT 252HI, 262HI, 353HI, 363HI, 371HI, 374HI, 393HI
  3. 1.0 400-series MGT course
  4. 1.0 additional 200+ series MGT course
  5. No more than 15 COM, MGT and ECO courses may be taken for degree credit. STA 250HI, 255HI, 257HI, 261HI count as ECO courses.

- II: Additional ECO Requirements (5.5 full courses or their equivalent):
1. ECO 206YI, 208YI, 227YI/STA (257HI, 261HI)
  2. ECO 327YI
  3. ECO 325HI, 326HI plus one-half additional ECO course at the 300+ level
- III: Writing Component (2 full courses or equivalent):
1. 1.0 course in English from below; ANT 204YI; CLA (except 201HI); ENG; FAH; FCS; HIS; HPS; HUM 199Y; INI all "Cinema Studies" and "Writing and Rhetoric" courses; LIN; NEW all "Equity Studies" and "Humanism" courses; PHL (except 245HI, 246HI, 247HI, 344HI, 345HI, 346HI); POL (except 242YI); RLG; SMC (except language courses); SOC (except 101Y); TRN 190Y, 200YI; UNI all "Canadian Studies", "Peace and Conflict Studies" and "Sexual Diversity Studies" courses; VIC; WDW all "Criminology" courses; WGS; WRT 307HI.
  2. 1.0 Economic History course from: ECO 301YI, 302HI, 303YI, 307HI, 308HI, 309HI, 321YI, 342YI, 353YI, 354HI, 355HI, 423HI, 429YI, 435HI

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### Commerce (Arts program)

Students taking this program follow the degree requirements for the Honours Bachelor of Arts (see page 25).

### Major program:

(7.5 full courses or their equivalent)

#### First Year:

1. COM 110HI, MGT 120HI
2. ECO 100YI
3. MAT 133YI/(123HI, 124HI)/135YI/137YI/139YI/157YI

#### Higher Years:

1. ECO 220YI/227YI/STA (250HI, 255HI)/(257HI, 261HI)
2. MGT 220HI, 223HI, 337YI, 252HI
3. 1.0 courses from MGT 330HI, 363HI, 371HI, 374HI, 393HI, or any 400-level MGT course

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### Commerce Courses

For Distribution Requirement purposes (see page 27), all MGT courses (except COM 110HI and MGT 120HI, which have NO degree requirement status) are classified as SOCIAL SCIENCE courses.

(Economics course descriptions begin on Page 135).

Enrolment in all Management (MGT) courses above the 100-series level is exclusively restricted to students enrolled in a St. George Commerce Program. Enrolment in 100-series MGT courses is subject to space availability; students admitted to the Faculty who indicated an intention to enrol in the Commerce program are given preference. Contact Commerce Programs Office for enrolment information.

Y = Full Course; H = Half-Course. For information on calculating "Course Load" and on "Dropping Courses," see the "Guide to Choosing Courses & Programs".

**COM110HI Introduction to Commerce 26L**  
Introduction to study of Economics and Management, and their sub-disciplines, that comprises Commerce. Enrolment in COM 110HI is restricted to first year students admitted to the Commerce admission category. (A joint course offered by the Rotman School of Management and the Department of Economics.)

**MGT120HI Financial Accounting I 26L**

Introduction to the theory and concepts of financial accounting. Students learn how to construct and interpret financial statements. Topics include an introductory understanding of accounting and the context within which accounting occurs. MGT 120HI is a course aimed at students who wish to enrol in the Program in Commerce and Finance. Enrolment in MGT 120HI is restricted. Priority is given to students entering the University with an expressed interest in studying Commerce. MGT 120HI does not count as a distribution requirement course

**MGT220HI Financial Accounting II 26L, 26T**

Expands the analysis of financial accounting beyond MGT120HI. Topics include accounting's conceptual framework, analysis of a business and financial statements, accounting for assets, and valuation of bonds.

Exclusion: MGT290HI

Prerequisite: At least a C in MGT120HI

**MGT223HI Management Accounting I 26L, 26T**

Covers conceptual and analytical foundations of cost accounting and uses of accounting by management. Cost concepts for product costing and decision making provide an understanding of the uses of accounting information by management. Costing and control concepts are analyzed to equip students with tools for establishing costing systems and to make decisions. MGT223HI does not count as a distribution requirement course.

Exclusion: MGT291HI

Prerequisite: At least a C in MGT120HI

**MGT224HI Financial Accounting Theory and Policy I 26L**

Expands the analysis of financial accounting beyond MGT220HI. Technical topics include accounting for leases, financial instruments, revenue recognition, intangibles and contingencies. Emphasis on implication for valuation and analysis.

Prerequisite: MGT 220HI

**MGT252HI Principles of Marketing 26L**

An introduction to the basic concepts of market definition, consumer behaviour, and the principal marketing functions: product line development, pricing, distribution, promotion, salesforce management, advertising, research, and planning.

Exclusion: MGT352HI

**MGT262HI Individual and Group Behaviour in Organizations 26L**

Theoretical ideas and practical applications concerning the behaviour of individuals and groups in organizations. We explore relevant problems confronting management: motivation, influence, communication, supervision, decision-making, work force diversity.

Exclusion: MGT362HI, PSY 332HI, WDW260HI

**MGT290HI Financial Accounting II 26L**

Expands the analysis of financial accounting beyond MGT120HI. Cases are used to develop critical thinking and communication skills. Topics include accounting's conceptual framework, analysis of a business and financial statements, accounting for assets, and valuation of bonds. (Offered only during the summer in Hong Kong.)

Prerequisite: At least a C in MGT 120HI

Exclusion: MGT 220HI

**MGT291HI Management Accounting I 26L**

Covers conceptual and analytical foundations of cost accounting and uses of accounting by management. Cost concepts for product costing and decision making provide an understanding of the uses of accounting information by management. Costing and control concepts are analyzed to equip students with tools for establishing costing systems and to make decisions. (Offered only during the summer in Hong Kong.)

Prerequisite: At least a C in MGT 120HI

Exclusion: MGT 223HI

**MGT295Y0/ Special Topics 26L 296YO**

The areas of concentration depend on the instructor teaching the course. (Offered only during the summer through the Woodsworth Summer Abroad Program)

**Note**

Commerce students admitted to the Faculty of Arts and Science in 2002 Summer or later MUST complete COM 110HI prior to enrolling in any 300 or 400-level MGT course.

**MGT321HI Auditing 26L**

A study of the concepts and theory underlying audit practice. Students are introduced to the CICA Handbook recommendations and guidelines for assurance. Practical examples are used to help students develop skills in exercising professional judgement.

Prerequisite: MGT224HI

**MGT322HI Financial Accounting Theory and Policy II 26L**

Examines several current measurement and disclosure issues in financial reporting, within a "quality of earnings" framework. Topics include: financial instruments, measuring and reporting pensions, financial reporting of corporate income taxes, corporate reporting via the Internet, etc. The emphasis is on developing judgement.

Prerequisite: MGT224HI

**MGT323HI Management Accounting II 26L**

Introduction to the different contexts in which costs need to be determined for goods sold internally, externally, domestically, and internationally. Other topics include appropriate cost structures for centralized, decentralized, and matrix forms of organizations and costs for long term capital projects. Cases are used to promote understanding of the theories.

Prerequisite: MGT223HI, ECO220Y1/227Y1/STA(250HI, 255HI)/(257HI, 261HI)

**MGT330HI Investments 26L**

Security analysis and portfolio management. Emphasis is placed on an analysis of bonds and common stocks.

Co-requisite: MGT337Y1

Recommended Preparation: MGT120HI

Exclusion: ACT 349HI

**MGT337Y1 Business Finance 52L**

Valuation models, cost of capital, capital budgeting, investment under uncertainty, the use of leverage, dividend policy, and the financial environment within which Canadian companies operate. The characteristics of various debt and equity instruments available in the Canadian capital market.

Exclusion: ACT349HI, ECO 358HI, ECO 359HI, MGT331Y1

Prerequisite: ECO200Y1/204Y1/206Y1, ECO220Y1/227Y1/STA(250HI, 255HI)/(257HI, 261HI), MGT120HI

# Commerce

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<p><b>MGT353HI Introduction to Marketing Management 26L</b></p> <p>An applications-oriented course intended to develop the analytic skills required of marketing managers. The course is designed to improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, making concise recommendations, and defending these recommendations.</p> <p>Prerequisite: MGT252HI</p> <p>Recommended Preparation: ECO220Y1/227Y1/STA(250HI, 255HI)/(257HI, 261HI)</p>	<p>Commerce and the supervising faculty member before enrolling. Enrolment is restricted to St. George Commerce students.</p> <p>Prerequisite: Cumulative GPA of at least 2.70</p>
<p><b>MGT363HI Organization Theory and Design 26L</b></p> <p>The course looks at how organizations function as collective social systems, trying to succeed in their environment. An extensive body of research and theory about organizations has developed. Discussion of the theories with a focus on practical applications about managing organizations. Topics include strategy, structure, environment, technology, culture, change and global management.</p>	<p><b>MGT403YI/ Independent Study Course TBA 404YI</b></p> <p>Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Commerce and the supervising faculty member before enrolling. Enrolment is restricted to St. George Commerce students. Consult the Commerce Programs Office.</p> <p>Prerequisite: Cumulative GPA of at least 2.70</p>
<p><b>MGT371HI Introduction to Business Information Systems 26L, 13T</b></p> <p>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.</p> <p>Exclusion: CSC340HI</p>	<p><b>MGT410HI/ Special Topics in Management TBA 411HI/ 412HI/ 413HI/ 414HI/ 415HI/ 416HI/ 417HI/ 418HI/ 419HI</b></p> <p>Topics and issues in Management. Content in any given year will depend on the instructor. Consult the Commerce website for course description and prerequisites. Enrolment is restricted to 4th year St. George Commerce students.</p>
<p><b>MGT374HI Operations Management 26L</b></p> <p>Operations management is concerned with the facilities and their operation to deliver the goods and services of the organization. The course develops this theme and gives a theoretical framework for managing operations. Some of the major themes include aggregate planning, materials management, and inventory control. This course introduces students to modern quantitative and computing tools necessary for in-depth operational analysis and planning.</p> <p>Prerequisite: ECO220Y1/227Y1/STA(250HI, 255HI)/(257HI, 261HI)</p>	<p><b>MGT420HI Critical Thinking, Analysis and Decision Making 39L</b></p> <p>This is a capstone case course stressing the pervasive competencies and critical thinking skills required from 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.</p> <p>Prerequisite: Fourth-year St. George Commerce student</p> <p>Recommended Preparation: MGT 321H, MGT 322H, MGT 323H, MGT 337Y</p>
<p><b>MGT393HI Legal Environment of Business I 26L</b></p> <p>An introduction for commerce students to the Canadian legal system focusing on business entities, the structure of the Canadian court system, the various elements of contract law and the law of negligence.</p>	<p><b>MGT421HI Advanced Auditing Topics 26L</b></p> <p>The course focuses on the reasoning and evidence theory underlying audit decision making. Coverage includes professional judgement, statistical auditing, assurance engagements, and public sector auditing.</p> <p>Prerequisite: MGT321HI</p>
<p><b>MGT394HI Legal Environment of Business II 26L</b></p> <p>This course builds on the legal principles developed in Legal I and canvasses other areas of law that impact on a business entity. Topics dealt with are the Sales of Goods Act and relevant consumer protection legislation, employment law, environmental law, the Personal Property Security Act and the rights of the secured creditor.</p> <p>Prerequisite: MGT393HI</p>	<p><b>MGT422HI Computer Auditing 26L</b></p> <p>This course investigates strategies and procedures used to audit computerized accounting systems based upon their special control characteristics. Special attention is devoted to computerized statistical procedures.</p> <p>Prerequisite: MGT321HI, 371HI</p>
<p><b>MGT395YO Special Topics</b></p> <p>The areas of concentration depend on the instructor teaching the course. (Offered only during the summer through the Woodsworth Summer Abroad Program)</p>	<p><b>MGT423HI Canadian Income Taxation I 26L, 13T</b></p> <p>This is the first of two courses in federal income tax law. It is designed to give the student a basic understanding of the Income Tax Act and its administration. This is achieved by applying the law to practical problems and case settings. Topics covered include: residence, employment income, property income, business income, capital gains, computation of taxable income and tax for individuals.</p> <p>Prerequisite: MGT322HI/323HI/337Y1</p>
<p><b>MGT401HI/ Independent Study Course TBA 402HI</b></p> <p>Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of</p>	<p><b>MGT426HI Advanced Accounting 26L</b></p> <p>The emphasis in this course is on accounting issues and practices relating to long-term investments, consolidations,</p>

foreign transactions and foreign investments. International accounting issues are also introduced. Assigned material includes cases to ensure that the user impact of accounting choices is appreciated.

Prerequisite: MGT322HI

**MGT427HI Analysis of Banking Financial Institutions and Instruments 26L**

Covers financial analysis of firms in the financial services industries: accounting and disclosure rules for financial instruments. Gives an in-depth understanding of how financial reports provide fairly accurate information about the risks and performance of banks and other financial services firms.

Prerequisite: MGT 337YI

**MGT428HI Management Control 26L**

Management control includes all 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. The case method is used to provide an understanding of the issues and environment of management control.

Prerequisite: MGT323HI

**MGT429HI Canadian Income Taxation II 26L, 13T**

This is the second of two courses in federal income tax law. It is designed to give the student an understanding of the more complex issues of Canadian Income Tax Law and tax planning. This is achieved through a combination of lectures and the application of the law to practical problems and case settings. Topics include computation of corporate taxes, integration, corporate reorganizations, surplus distributions, partnerships and trusts.

Prerequisite: MGT423HI

**MGT430HI Fixed Income Securities 26L**

The objective of this course is to describe 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.

Prerequisite: MGT337Y/ACT349HI

**MGT431HI Advanced Corporate Finance 26L**

Application and development of the ideas in MGT 337YI to corporate finance problems such as initial public offerings and project evaluation.

Prerequisite: MGT337YI/ACT349HI, ECO200YI/204YI/206YI

**MGT 432HI Risk Management for Financial Managers 26L**

Focus is identifying and managing the risks of a portfolio of financial assets. These risks include credit, liquidity, interest rate, currency, market and country risks. The course addresses the measurement problems attached to infrequent as well as continuous risks, current risk management techniques, and the management problems in implementing them.

Prerequisite: MGT337YI

**MGT438HI Futures and Options Markets 26L**

Analysis of derivative instruments such as futures contracts, put and call options and swaps. Emphasis is placed on the valuation of these instruments as a foundation for valuing complex securities.

Exclusion: ACT370HI

Prerequisite: MGT337YI, ECO200YI/204YI/206YI

**MGT439HI International Finance 26L**

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. Prerequisite: MGT337YI/ACT349HI, ECO200YI/204YI/206YI

**MGT452HI Advanced Marketing Management 26L**

The emphasis in this course is on marketing decision making in a dynamic environment. Building on the concepts and skills developed in MGT353HI, the course focuses on the major decisions facing marketing managers in the attempt to harmonize the resources of the organization with the opportunities in the market.

Prerequisite: MGT353HI

**MGT453HI Marketing Research 26L**

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.

Prerequisite: MGT353HI, ECO220YI/227YI/STA(250HI, 255HI)/(257HI, 261HI)

**MGT 455HI Consumer Behaviour 26L**

Marketing begins and ends with the customer. Formulating a successful marketing strategy requires an accurate understanding of customers' needs, values, judgments, feelings and choices. Students will learn how to generate knowledge about customers, interpret consumer reactions to marketing stimuli, and develop skills in marketing analysis and decision making.

Prerequisite: MGT 353HI

**MGT460HI Human Resource Management 26L**

Human resource management is studied from the perspective of the manager/practitioner. The course focuses on current theory and practices in the major functions of human resource management. Class exercises and projects are used to provide students with some practical HR experience.

Prerequisite: MGT262HI/363HI/WDW260HI

**MGT461HI Managerial Negotiations 26L**

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.

Prerequisite: MGT 262H

**MGT475HI Management Science 26L**

Introduction to Management Science methods dealing with decision making situations. The goal of these methods, which are quantitative in nature, is to obtain an objective evaluation of available alternatives and select the 'best' one with respect to pre-defined criteria. Topics include: Decision Analysis, Linear Programming, Integer Programming, Network Methods and Waiting Line Models.

Prerequisite: One full MGT course at the 300- or 400-level

**MGT 480HI Business in a Global Economy 6L**

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

# Commerce

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Organization, foreign exchange risk management, competition policy and international taxation.

Prerequisite: I.O 300+ MGT full course equivalent

## **MGT481HI    Organization Strategies                    26L**

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” firm organization.

Prerequisite: ECO200Y1/204Y1/206Y1, ECO220Y1/227Y1/ STA(250HI, 255HI)/(257HI, 261HI)

## **MGT482HI    Market Strategies                                26L**

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.

Prerequisite: ECO200Y1/204Y1/206Y1, ECO220Y1/227Y1/ STA(250HI, 255HI), (257HI, 261HI)

## **MGT491HI    Introduction to    26L** **International Business**

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.

Prerequisite: one full MGT course at the 300- or 400-level

## **MGT492HI    Introduction to    26L** **Strategic Management**

Focuses on industry analysis and different models of the firm. The key questions addressed are: “why do some firms succeed where others fail?” and “what strategy should a firm employ to reach its goals?”

Prerequisite: one full MGT course at the 300- or 400-level

## **MGT493HI    Small Business Management                    26L**

Skills needed to set up and run a small business. Development of a business plan. Securing financing. Finding and keeping customers. Operations management. Aspects of legal, financial and taxation concerns of smaller businesses.

Prerequisite: one full MGT course at the 300- or 400-level

## **MGT494HI    Technology Strategy                                26L**

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.

Prerequisite: One full MGT course at the 300- or 400-level

Recommended Preparation: MGT 252HI

## **MGT499HI    Integrated Management                            26L, 13T** **Simulation**

An experiential business simulation in which students form the executive committee of a fictitious company and compete in a virtual computer simulation. Students interact and work together as a team, guide a company to success and communicate with stakeholders by reporting to a board of directors composed of business executives.

Prerequisite: Fourth-year St. George commerce students with MGT337Y1

## **First Year Seminars: 199HI/YI Courses**

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First-Year Seminars: 199HI and 199YI Courses

Coordinator: Professor K.R. Bartlett, MA Ph D, Victoria College, (416-585-4590) and First-Year Seminar Office (416-978-0359)

Website: [www.artsci.utoronto.ca/current/undergraduate](http://www.artsci.utoronto.ca/current/undergraduate)

The 199YI and 199HI seminars are designed to provide entering undergraduates with the opportunity to work closely with an instructor in a class of no more than twenty-four students. 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 work at the University of Toronto. In addition, students are encouraged to develop their ability to think analytically and to express ideas and logical arguments clearly and coherently, both orally and in writing.

These interactive seminars are not designed as introductory surveys to a discipline or program. Rather, they 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. Thus, students are encouraged to experience material and methods that are outside the area in which they will eventually concentrate in order to benefit fully from the scope and diversity of the Faculty of Arts and Science. All 199YI and 199HI seminars are described within the First-Year Handbook that is distributed to every newly admitted first-year student.

NOTE: 198HI may be used in circumstances where a student enrolls in two 199HI seminars.

All 199YI and 199HI seminars have generic designators HUM (HUMANITIES) or SCI (SCIENCE) or SSC (SOCIAL SCIENCE), or INX (INTERDISCIPLINARY), according to the disciplinary content of the seminar.

All 199YI and 199HI courses count for degree credit in the same way as any other course. STUDENTS MAY ENROL IN ONLY ONE 199YI SEMINAR OR TWO 199HI SEMINARS. These courses can under most circumstances fulfill breadth requirements. For details see the *Calendar* (under Distribution Requirements, page 27) and the *First-Year Handbook*.

## **Research Opportunity Program: 299YI Courses**

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Coordinator: Professor K.R. Bartlett, MA Ph D, Victoria College (416-585-4590) and Research Opportunity Program Office (416-978-0359)

Web site: [www.artsci.utoronto.ca/current/undergraduate](http://www.artsci.utoronto.ca/current/undergraduate)

The Research Opportunity Program ("ROP") provides an opportunity for students in their second year (i.e., after completing at least four but not more than nine courses) to earn one 299YI course credit by participating in a faculty member's research project.

Descriptions of ROP projects are in the ROP 299YI Project Binders, which will be available in departmental and college

registrars' offices, the ROP Office (Room 1067, Sidney Smith Hall, 100 St. George Street), and at ASSU and APUS, after Reading Week.

Students wishing to apply for places in the ROP should submit ROP Application forms (available with the ROP Binders and on the Arts and Science Web Site listed above) to the ROP Office (Room 1067, Sidney Smith Hall, 100 St. George Street) by mid March at the latest. Students will be informed in early May whether or not they have been accepted. Successful applicants will be registered in their 299YI course by the Program office. The 299YI courses begin in September.

A student may accept only one 299YI course. Each 299YI course will bear the three-letter designator of the department or program sponsoring it, e.g., ANT 299YI, CSB 299YI, etc. Not all departments or programs will necessarily participate in the ROP each year.

Students will be expected to keep a journal recording meetings, progress, and what was learned about the project in particular and the nature of research in general. Full details of 299YI course requirements are in the ROP 299YI Project Binders. For further information contact the Coordinator.

### **Summer Research Opportunities**

A limited number of ROP 299YI courses are offered each summer. Applications for summer 299YIs are due in mid March, the same time as fall/winter 299YIs.

## **Independent Experiential Study Program: 398H0/399Y0 Courses**

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Coordinator: Professor K.R. Bartlett, MA Ph D, Victoria College (416-585-4590) and Program Office (416-978-0359)

A limited number of 398H0/399Y0 courses are available each year. Faculty supervisors propose the projects and choose the students who apply for the projects as they now do for the 299YIs. They also sign a contract with the successful candidates as with the 299YI projects.

Students must normally have completed a minimum of eight FCEs and a maximum of 14.0 FCEs of their studies by the time they begin a 398H0/399Y0 project. The 398H0/399Y0 would be eligible to count towards program completion if the program sponsor (Chair or Director) so chooses. The 398H0/399Y0 would normally have a program-specific designator, such as ANT, CLA, CSB, VIC, etc.

The projects normally run within the May-August period, when both Faculty and students would be able to make the time commitments necessary. Regular tuition fees apply. The practical, experiential component can take the form of research/learning under the supervision of a faculty member 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 exchange programs).

Details of individual 398H0/399Y0 projects will be available in the Program office after March 1st each year.

# Aboriginal Studies

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## Faculty

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### Assistant Professor

D. McGregor  
Cynthia Wesley-Esquimaux

### Senior Lecturer

A. McKay

The Aboriginal Studies Program focuses on the languages, cultures, histories, arts, creativity and well-being of Indigenous Peoples and on their knowledges within Canada and worldwide. It is an inter-disciplinary program which is sponsored by University College. Students are encouraged to seek counselling and information about this program from Ruby Eisen (ruby.eisen@utoronto.ca).

## Aboriginal Studies Programs

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### Aboriginal Studies (Arts program)

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#### Specialist program

(10 full courses or their equivalents, including at least one 400-series course)

1. ABS 201Y1
2. ABS 210Y1/220Y1/230H1 and 231H1
3. ABS 300Y1 and ABS 301Y1
4. ABS 460Y1
5. Four additional full-course equivalents from Group A below (note: some of these courses have prerequisites)
6. One additional full-course equivalent from Group A or one full-course equivalent from Group B below (note: some of these courses have prerequisites)

#### Major program

(7 full courses or their equivalent, including at least two 300+level courses)

1. ABS 201Y1
2. ABS 210Y1/220Y1/230H1 and 231H1
3. ABS 300Y1 and ABS 301Y1
4. Two additional full-course equivalents from ABS, JFP, or JAG designators (note: some of these courses have prerequisites)
5. One additional full-course equivalent from Group A or one full-course equivalent from Group B below (note: some of these courses have prerequisites)

#### Minor program

(4 full courses or their equivalent, including at least one full-course equivalent at the 300+-level)

1. ABS 201Y1
2. ABS 300Y1/301Y1
3. One additional full-course equivalent ABS, JFP, or JAG (note: some of these courses have prerequisites)
4. One additional full-course equivalent from Group A below (note: some of these courses have prerequisites)

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#### Group A:

ABS205Y1 Aboriginal Spirituality  
ABS210Y1 Introduction to the Ojibwa Language  
ABS220Y1 Introduction to an Iroquoian Language  
ABS230H1 Introduction to Inuktitut

ABS231H1 Elementary Inuktitut  
ABS250H1 Indigenous Environmental Knowledge  
ABS302H1 Aboriginal People in the Mass Media  
ABS310Y1 Ojibwa Language II  
ABS323Y1 Intermediate Iroquoian Language  
ABS320Y1/321H1 Aboriginal Visual Expression: Technical and Theoretical Aspects  
ABS330Y1/331H1 Aboriginal Music: Technical and Theoretical Aspects  
ABS341H1 Indigenous Theatre  
ABS350Y1 Aboriginal Health Systems  
ABS351Y1 Aboriginal Legends and Teaching  
ABS352H1 The Indian Act  
ABS353H1 Aboriginal Perspectives in Canadian Politics and Law I  
ABS354H1 Aboriginal Perspectives in Canadian Politics and Law 2  
ABS402H1 Traditional Indigenous Ecological Knowledge  
ABS403H1 Aboriginal People in Urban Areas  
ABS404H1 Politics of Aboriginal Nursing  
ABS405Y1 Indigenous Thought and Expression: Creative Non-fiction  
ABS460Y Methodology in Aboriginal Studies  
ABS495Y1/496H1/497H1/498Y1 Independent Research  
ANT315H1 Arctic Archaeology  
ANT365Y1 Native America and the State  
ANT453H1 Sub-Arctic Issues  
ENG254Y1 Indigenous Literatures of North America  
ENG355H1 Indigenous Women's Literature  
HIS369Y1 The Aboriginal Peoples of the Great Lakes  
HIS472H1 Topics in Canadian Aboriginal/Non-Aboriginal Relations  
HIS493H1 Cultural Encounters in Early Canada  
JAG321H1 Aboriginal People and Environmental Issues in Canada  
JFP450H1 First Nations Issues in Health and Healing (offered by the Faculty of Pharmacy)  
LIN458H1 Revitalizing Languages  
RLG201Y1 Aboriginal Religion  
UNI317Y1/317H1 Politics of Aboriginal Self-Government

**Group B:**  
ANT200Y1 Introduction to Prehistoric Archaeology  
ANT204Y1 Social and Cultural Anthropology  
ANT319Y1 Archaeology of North America  
ANT311Y1 Archaeological Fieldwork  
ANT348Y1 Anthropology of Health  
ANT367Y1 Indigenous Spirituality  
ANT410H1 Hunter-Gatherers Past and Present  
ANT454H1 The Anthropology of Music  
DRM268H1 Canadian Theatre History  
ENV236Y1 Human Interactions with the Environment  
FOR200H1 Conservation of Canada's Forests  
GGR240Y1 Historical Geography of the Americas  
HIS106Y1 Natives, Settlers, and Conquistadors: Colonizing the Americas, 1492-1776  
HIS294Y1 Caribbean History and Culture  
HIS358H1 How the West was Colonized  
HIS384H1 Colonial Canada: The East



HIS402YI	Indigenous Colonial Cultures in the Spanish and Portuguese Americas
HIS468HI	Atlantic Canada
INI327YI	Race and Representation
INI333HI	Ecological Worldviews
JAL253HI	Language and Society
JAL254HI	Sociolinguistics
JIE222YI	The Study of Environment
NEW224YI	Caribbean Thought I
NEW240YI	Introduction to Equity Studies
NEW324YI	Caribbean Thought II
NEW369YI	Studies in Post-Colonialism
POL304YI	Ethnicity and Politics in Canada
POL340YI	Ethnicity and Politics in Canada
SOC220YI	Social Inequality in Canada

**ABS250HI Indigenous Environmental Education 26S**

An exploration of traditional environmental education and its relevance in contemporary Aboriginal society, with a focus on the process of environmental education as well as on theory and conceptual understanding.  
Prerequisite: ABS201YI  
This is a Social Science course

**ABS300YI Worldviews, Indigenous Knowledges, 52L and Oral Tradition**

A study of the languages and culture of Aboriginal 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: ABS201YI  
This is a Social Science or Humanities course

**ABS301YI Native Language and Culture 52L**

Examination of the historical interplay of Aboriginal languages and cultures in Canada. Particular focus is on the language and culture of a First Nation in Ontario.  
Exclusion: ABS200YI  
Prerequisite: ABS201YI  
This is a Social Science or Humanities course

**ABS 302HI Aboriginal Representation in the Mass Media and Society 26L**

A survey of historical and contemporary representations of Aboriginal people in the mass media. Introduction to basic techniques for evaluating, analyzing, and understanding the construction of 'Nativity' 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, Aboriginal media production, impact of media portrayal of Aboriginal peoples.  
Prerequisite: ABS201YI  
This is a Social Science or Humanities course

**ABS310YI Ojibwa Language II 78L**

Further study of the Ojibwa language with emphasis on speaking and writing.  
Prerequisite: ABS210YI  
This is a Humanities course

**ABS320YI/ ABS321HI Aboriginal Visual Expression: Technical and Theoretical Aspects 52L, 26P/26L, 13P**

An introduction to expressive aboriginal visual art from a regional Anishnaabe perspective, including beading, leather work, quillwork, birchbark baskets, with a concentration on technical, theoretical, historical, esthetic and cultural aspects and contemporary practice.  
Prerequisite: ABS201YI or permission of the instructor  
This is a Humanities course

**JAG321HI Aboriginal People & Environmental Issues in Canada 39L**

This course explores Aboriginal views of environment and resource management from pre-European contact times through to the present from an Aboriginal perspective. Emphasis will be placed on the emerging role of Aboriginal people in environmental and resource management in Canada. Topics to be covered include: history of Aboriginal/non-Aboriginal relations, Aboriginal world view and philosophy, Aboriginal environmental ethics and principles, and current environmental

## Aboriginal Studies Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), ABS courses are classified in different categories; check individual course descriptions.

**ABS201YI Introduction to Aboriginal Studies 52L/26T**

An introduction to Canadian Aboriginal studies and Aboriginal world views, including language, culture, history, politics, economics, sociology, and science. A focus on critical thinking, the introduction of new perspectives, and community context. This is a Social Science or Humanities course

**ABS205YI Aboriginal Spirituality 52L**

An exploration of spiritual practices and beliefs of Indigenous peoples with emphasis on Canada's First Nations. Spirituality through an historic lens, highlighting rituals such as Ghost Dances, Midewiwin Lodge, and Wabung, and contemporary spiritual practices, including evolving belief systems, ritual and spiritual practice in today's world, and the balance of spirituality and spiritual practice with modernity.  
Recommended preparation: ABS201YI  
This is a Humanities course

**ABS210YI Introduction to the Ojibwa Language 78L**

An introduction to the Ojibwa language, including the syllabic writing system.  
This is a Humanities course

**ABS220YI Introduction to an Iroquoian Language 78L**

An introduction to one of the languages of the Iroquoian language family.  
This is a Humanities course

**ABS230HI Introduction to Inuktitut 26L**

An introduction to one dialect of Inuktitut, the language of the Inuit, including aspects of other dialects and the syllabic writing system.  
This is a Humanities course

**ABS231HI Elementary Inuktitut 26L**

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: ABS230HI  
This is a Humanities course

# Aboriginal Studies

issues confronting Aboriginal people. (Offered by Aboriginal Studies and the Geography Department)

Prerequisite: Two credits in Geography or Aboriginal Studies

This is a Social Science course

## **ABS323YI Intermediate Iroquoian Language 78L**

Further study of an Iroquoian language.

Prerequisite: ABS 220YI

This is a Humanities course

## **ABS330YI/ 33IH1 Aboriginal Music: Technical and Theoretical Aspects 52L/26L**

Contemporary and historical musical performance practices of Aboriginal people of North and South America.

Prerequisite: ABS201YI

This is a Humanities course

## **ABS34IH1 North American Indigenous Theatre 26L**

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: ABS300YI/301YI/33IH1/DRM100Y

This is a Humanities course

## **ABS350YI Aboriginal Health Systems 52L**

An overview of Aboriginal health systems, internationally, nationally, provincially and locally, with a focus on Ontario.

Discussion of health models and strategies, policy, legislation, jurisdictional issues, Aboriginal health initiatives

Prerequisite: ABS 201YI or UNI 200YI

This is a Social Science course

## **ABS351YI Aboriginal Legends & Teaching 26L (formerly ABS35IH1)**

An introduction to laws of Aboriginal societies, focusing on the Nishnabe, as seen through legends and teachings.

Prerequisite: ABS201YI

Exclusion: ABS35IH1

This is a Social Science or Humanities course

## **ABS352HI The Indian Act 26L**

The history of the Indian Act from its creation to the present.

Prerequisite: ABS201YI

This is a Social Science or Humanities course

## **ABS353HI Aboriginal Perspectives in Canadian Politics and Law I 26L**

A study of the development of Aboriginal/Western relations from a legal and political standpoint and the evolution of Aboriginal issues and Native rights since contact. Aboriginal perspectives, customary law, restorative justice initiatives and self-government, effects of Canadian law on Indigenous beliefs and life ways, political and economic development potential.

Prerequisite: ABS201YI

Recommended preparation: a course in Canadian history or politics

This is a Social Science or Humanities course

## **ABS354HI Aboriginal Perspectives in Canadian Politics and Law 2 26L**

A continuation of ABS353HI.

Prerequisite: ABS353HI

This is a Social Science or Humanities course

## **ABS398HI/ 399YI Independent Experiential Study Project 399YI**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

## **ABS402HI Traditional Indigenous Ecological Knowledge 39L**

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: ABS201YI plus one additional ABS designator course

This is a Social Science or Humanities course

## **ABS 403HI Aboriginal People in Urban Areas 26L**

An examination of Aboriginal peoples' experiences in urban centres, including an examination of increasing Aboriginal migration to Canadian and American cities, government policy affecting off-reserve Indians, and urban Indians' concerns and goals.

Prerequisite: ABS201YI plus two additional full-course equivalents in ABS

This is a Social Science or Humanities course

## **ABS404HI Politics of Aboriginal Nursing 26L**

An examination of the impacts of policies and practices on the health of Aboriginal people in Canada which honours Native world view and traditions and values cultural safety. Includes historical and social determinants of health, historical events, policies and social realities and their consequences.

Prerequisite: Two full ABS courses plus permission of the instructor.

This is a Social Science course

## **ABS405YI Indigenous Thought & Expression: Creative Non-fiction 52S**

An investigation of (Anishnaabe, Iroquoian, Athapaskan, Salish), examined through the study of research and writing of creative-nonfiction.

Prerequisite: ABS201YI plus one additional ABS designator course and permission of instructor

This is a Humanities course

## **JFP450HI First Nations Issues in Health and Healing 28L**

An examination of issues about the health of Aboriginal people in Canada, providing an understanding of present day health issues from the perspective of their historical and political context and effects of health care policy. (Offered by the Faculty of Pharmacy)

This is a Social Science or Humanities course

## **ABS460Y Methodology in Aboriginal Studies 78L**

Basic methods in research in Aboriginal Studies, including oral tradition and community-based research, as well as discussion of ethics, protocols, priorities, and comparative Indigenous methodologies.

Prerequisite: ABS201YI plus two full course equivalent ABS courses or permission of the instructor.

This is a Social Science or Humanities course

## **ABS495YI/ 496HI/ 497HI 498YI Independent Research TBA**

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.

Prerequisite: ABS201YI plus one additional ABS designator full-course equivalent

This is a Social Science or Humanities course

# Millie Rotman Shime Academic Bridging Program

The Academic Bridging Program is for mature students who are at least 20 years of age and who have been away from formal education for some time (usually at least two years). The courses are designed to bridge the gap between a student's prior secondary education and the requirements of first year university courses. They 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 one of three Academic Bridging courses: ENG 185Y (Introduction to the Study of Literature), JWH 100Y (Canadian History), and JWU 100Y (Contemporary Canada).

Enquiries: Millie Rotman Shime Academic Bridging Program, Woodsworth College (416-978-7487)

## **Academic Bridging Program Courses**

See page 33 for Key to Course Descriptions.

1. For Distribution Requirement purposes, see classification listed after each course.
2. Only students admitted to the Academic Bridging Program may enrol in these courses.

### **ENG185Y1 Introduction to the Study of Literature 78L**

A writing intensive course that introduces essential rhetorical and critical skills, focusing on how to recognize major literary forms; how to read critically, comprehend more fully, analyze outstanding literary works of drama, poetry and fiction; how to write more clearly and effectively, and how to use the library to do research.

This is a Humanities course

### **JWH100Y1 Canadian History 78L**

This course is a survey of Canada's political, social, and economic history from European settlement to the present, featuring Canada's native peoples, Anglophone-Francophone issues, Canada's relations with Britain and the United States, and the growth of national institutions. Other themes include regionalism, immigration and multiculturalism.

This is a Humanities course

### **JWU100Y1 Contemporary Canada 78L**

This interdisciplinary course provides an introduction to contemporary Canadian society. The course includes the study of geography, politics, literature and culture through a historical framework of the twentieth century. It also emphasizes particular themes including aboriginal issues, regionalism, French-English conflict, gender/women's issues and immigration/multiculturalism.

This is a Humanities or a Social Science course.

# Actuarial Science

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Given by Members of the Department of Statistics

## Faculty

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### Professor and Chair of the Department

K. Knight, M Sc, Ph D

### Professors

S. Broverman, M Sc, Ph D, ASA

X.S. Lin, M Sc, Ph D, ASA

### Assistant Professor

A. Badescu, BSc, MSc, Ph D

S. Jaimungal, BASc, MSc, PhD

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 probabilities 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.

ACT 240HI, though somewhat technical, is a course 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.

Professional accreditation as an actuary is obtained via the Canadian Institute of Actuaries by passing a series of examinations set by the Society of Actuaries or the Casualty Actuarial Society. Some professional requirements can be satisfied through courses in the actuarial program. For more information about actuarial studies and careers, contact Professor Broverman or Professor Lin.

Enquiries: 100 St. George Street, Sidney Smith Hall, Room 6018 (416-978-3452)

Associate Chair, Undergraduate Studies: Professor D. Brenner;  
e-mail: [brenner@utstat.utoronto.ca](mailto:brenner@utstat.utoronto.ca)

## Actuarial Science Programs

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Enrolment in these programs requires completion of four courses including MAT 137Y1(55%)/157Y1 and ECO100Y1(70%).

### Actuarial Science (Science program)

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Consult Department of Statistics.

NOTE: it is the student's responsibility to meet any prerequisites for courses offered by other departments.

### Specialist program

(13 courses or their equivalent, including at least four 300+-series courses, one of which must be at the 400-level)

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

First Year:

1. MGT 120H
2. ECO 100Y1(70%)
3. MAT 137Y1(55%)/157Y1
4. MAT 223HI/240HI (should be taken in first year)

Second Year:

1. ACT 240HI, 245HI, 247HI
2. MAT 237Y1/257Y1
3. ECO 206Y1
4. STA (257HI, 261HI)

Higher Years:

1. ACT348HI, 349HI, 370HI, 451HI, 455HI, 460HI, 466HI
2. One of: ACT 470HI, 471HI, 472HI
3. STA 302HI, 347HI, 457HI

NOTE:

In order to enroll in any 300- or 400-level ACT course, the minimum grade of C must be obtained in each of ACT240HI, ACT245HI and ACT247HI. These prerequisites will be strictly enforced.

4. ECO 208Y1 (strongly recommended); STA 352Y1; MAT 244HI, 246HI are recommended
5. Students in the Actuarial Science Specialist program who have successfully completed ACT 348HI may be eligible to enrol in the following MGT courses (provided the appropriate prerequisites and co-requisites are met): MGT 430HI, 431HI, 439HI
6. CSC 108HI recommended

### Major program:

(8-8.5 courses or their equivalent, including at least two full-course equivalents at the 300+-level)

First Year:

1. MGT 120H
2. MAT 137Y1 (55%)/157Y1
3. ECO 100Y1 (70%)
4. MAT 223HI/240HI (should be taken in first year)

Higher Years:

1. ACT 240HI, 245HI, 247HI, 348HI, 370HI
2. MAT 237Y1/257Y1
3. STA (257HI, 261HI)
4. Two of: ACT349HI, 451HI, 455HI, 460HI, STA302HI, 347HI, 457HI

## Actuarial Science Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), ACT courses are classified as Science courses

**ACT230HI    Mathematics of Finance for    26L, 13T**  
**Non-Actuaries**

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.

Prerequisite: First-year Calculus

Exclusion: ACT240HI

**ACT240HI    Mathematics of Investment    26L, 13T**  
**& Credit**

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.

Prerequisite: MAT133YI/135YI/137YI/157YI

**ACT245HI    Financial Principles for    26L, 13T**  
**Actuarial Science I**

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: ACT240HI, MAT137YI/157YI

Co-requisite: MAT237YI, STA257HI

**ACT247HI    Introductory Life Contingencies    39L**

Probability theory applied to survival and to costs and risks of life assurances, life annuities, and pensions; analysis of survival distributions; international actuarial notation.

Prerequisite: ACT240HI; MAT 137YI/157YI; STA257HI

Co-requisite: MAT237YI

**ACT348HI    Advanced Life Contingencies    39L**

Determination of interest premium and benefit reserves for life insurance and annuities; analysis of insurance loss random variables; theory of life contingencies for multiple lives.

Prerequisite: ACT240HI (minimum grade C); ACT245HI

(minimum grade C); 247HI (minimum grade C);

(STA257HI, 261HI); MAT237YI

**ACT349HI    Corporate Finance for    26L, 13T**  
**Actuarial Science Mathematics**

Actuarial applications of financial mathematics and economics.

Prerequisite: ACT240HI (minimum grade C); ACT245HI

(minimum grade C); 247HI (minimum grade C); (STA257HI, 261HI); MAT237YI; ECO206YI

Exclusion: ECO358HI, 359HI, MGT331YI, 337YI

**ACT370HI    Financial Principles for    39L**  
**Actuarial Science II**

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

Prerequisite: ACT240HI (minimum grade C); ACT245HI

(minimum grade C); 247HI (minimum grade C);

(STA257HI, 261HI); MAT237YI

Exclusion: MGT438HI

**ACT398H0/    Independent Experiential Study Project    399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

This is a Science course.

**ACT451HI    Loss Models    39L**

Loss models and their estimation, mixture distributions, compound distributions, partial insurance, stop-loss insurance, censoring and truncation of data, product-limit estimation, Cox proportional hazard model.

Pre- or co-requisite: ACT348HI; STA347HI, STA261HI

**ACT455HI    Advanced Topics in    39L**  
**Actuarial Science**

Advanced life contingencies, multiple decrement theory, insurance policy expenses, multi-state transition models, Poisson processes.

Prerequisite: ACT348HI; STA347HI

**ACT460HI    Stochastic Methods for    39L**  
**Actuarial Science**

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.

Prerequisite: ACT370HI; STA347HI

**ACT466HI    Credibility and Simulation    39L**

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: ACT451HI; STA347HI

**ACT470HI    Advanced Pension Mathematics    39L**

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

Prerequisite: ACT348HI or permission of instructor

Corequisite: ACT455HI

**ACT471HI    Actuarial Applications of Finance    39L**

Assets, liability and investment management for pension plans. (Offered in alternate years)

Prerequisite: ACT349HI // MGT337YI // (ECO 358HI, ECO 359HI) or permission of instructor

**ACT472HI    Issues in Actuarial Practice    39L**

Practical issues that arise for insurance, pension and casualty actuaries.

Prerequisite: ACT348HI

**ACT496HI/    Readings in Actuarial Science    TBA**  
**497HI**

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.

**ACT498YI/    Readings in Actuarial Science    TBA**  
**499YI**

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.

# American Studies (USA)

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The American Studies Program is designed to provide students with a broad, yet deep, education about the United States. To ensure breadth, students are required to take an interdisciplinary core course that ranges widely both with respect to the themes covered and disciplinary perspectives applied. As well, the Program offers a wide selection of courses from participating departments and programs in the Faculty, giving students broad exposure to fundamental themes of American life. To ensure depth, the American Studies Program relies heavily on upper level courses, including its own capstone seminars at the 400-level.

## American Studies Program

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Enrolment in the programs listed below is open to students who have completed four courses; no minimum GPA is required.

### American Studies (Arts program)

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Consult Prof. Elspeth Brown, Room 327N, Munk Centre for International Studies (416-946-8011) for general program requirements.

#### Major program:

(6 full courses or their equivalent, including at least two 300+ series courses and at least three disciplines)

Second year:

1. HIS 271Y1/ENG 250Y1/POL 203Y1

Third year:

2. USA 300Y1

Second, third, or fourth year:

3. Four courses from the following: ABS302HI, 341HI, 403HI, 405Y1; ANT362Y1, 365HI; DRM310HI; ECO 307HI, 423HI; ENG 254Y1, 268HI, 275Y1, 358Y1, 359Y1, 361HI; FAH 375HI; GGR 240HI, 254HI, 336HI, 339HI, 360HI; HIS 106Y1, 202HI, 316HI, 321HI, 327HI, 368HI, 369Y1, 370HI, 371HI, 374HI, 375HI, 376HI, 377Y1, 378HI, 379HI, 393HI, 401Y1, 404HI, 408Y1, 431HI, 436HI, 447Y1, 471HI, 473Y1, 474HI, 475HI, 476HI, 478HI, 479Y1, 482HI, 484HI; INI 225Y1, 322HI, 324Y1, 383HI, 460HI, 463HI, 483HI; MUS 230HI, 306H, 315HI, POL 319Y1, 326Y1, 349Y1, 420Y1, 433Y1; RLG 315HI, 442HI; USA 400HI, 401HI, 494HI, 495Y1

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

#### Minor program:

(4 full courses or their equivalent, including at least one 300+ series course and at least two disciplines)

Second year:

1. HIS 271Y1/ENG 250Y1/POL 203Y1

Third year:

2. USA 300Y1

Second, third, or fourth year:

3. Two courses from the following: ABS302HI, 341HI, 403HI, 405Y1; ANT362Y1, 365HI; DRM310HI; ECO 307HI, 423HI; ENG 254Y1, 268HI, 275Y1, 358Y1, 359Y1, 361HI; FAH 375HI; GGR 240HI, 254HI, 336HI, 339HI, 360HI; HIS 106Y1, 202HI, 316HI, 321HI, 327HI, 368HI, 369Y1, 370HI, 371HI, 374HI, 375HI, 376HI, 377Y1, 378HI, 379HI, 393HI, 401Y1, 404HI, 408Y1, 431HI, 436HI, 447Y1, 471HI, 473Y1, 474HI, 475HI, 476HI, 478HI,

479Y1, 482HI, 484HI; INI 225Y1, 322HI, 324Y1, 383HI, 460HI, 463HI, 483HI; MUS 230HI, 306H, 315HI, POL 319Y1, 326Y1, 349Y1, 420Y1, 433Y1; RLG 315HI, 442HI; USA 400HI, 401HI, 494HI, 495Y1

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

## American Studies Courses

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See page 33 for Key to Course Descriptions.

The Distribution Requirement status (see page 27) is listed below each course description.

### USA300Y1 Thinking about the U.S.A. 52L, 26T

An interdisciplinary introduction to the practice of American Studies organized around key periods in the history of the United States in which Americans reinvented themselves, thought in novel ways about who they were, and redrew the boundaries that defined citizenship and membership in the nation. This course illustrates the multi-disciplinary nature of American Studies, creating a conversation about the United States using materials and approaches from history, literature, cultural studies, economics and political science.

Prerequisite: HIS 271Y1/ENG 250Y1/POL 203Y1

Exclusion: USA 200Y1

This is a Humanities or Social Science course

### USA400HI Topics in American Studies I 26S

In depth examination of specific themes relating to American Studies.

Prerequisite: At least two courses from the American Studies list

This is a Humanities or Social Science course

### USA401HI Topics in American Studies II 26S

In depth examination of specific themes relating to American Studies.

Prerequisite: At least two courses from the American Studies list

This is a Humanities or Social Science course

### USA494HI Independent Studies

This is a Humanities or Social Science course

### USA495YI Independent Studies

This is a Humanities or Social Science course

**Anatomy: see Life Sciences: Anatomy**

# Anthropology

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## Faculty

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### University Professor Emeritus

R.B. Lee, MA, Ph D, FRSC

### Professors Emeriti

F.D. Burton, MA, Ph D (S)  
W.P. Carstens, BA, Ph D (U)  
J.J. Chew, MA, Ph D  
R.B. Drewitt, Ph D  
M.R. Kleindienst, MA, Ph D (University of Toronto Mississauga)  
J. Mavalwala, M Sc, Ph D  
F.J. Melbye, MA, Ph D (University of Toronto Mississauga)  
S. Nagata, MA, Ph D (U)  
S.B. Philpott, MA, Ph D  
A.K. Ray, M Sc, Ph D  
T.E. Reed, BA, Ph D  
W.J. Samarin, BA, Ph D  
R.W. Shirley, M Sc, Ph D (S)  
B.A. Sigmon, MS, Ph D (University of Toronto Mississauga)  
R.M. Vanderburgh, MA, Ph D (University of Toronto Mississauga)

### Professor and Chair of the Department

J.P. Boddy, MA, Ph D, FRSC

### Professors

E.B. Banning, MA, Ph D (U)  
D.R. Begun, MA, Ph D  
G.G. Coupland, MA, Ph D  
G.W. Crawford, MA, Ph D (University of Toronto Mississauga)  
M. Danesi, MA, Ph D, FRSC  
M.J. Lambek, MA, Ph D, FRSC (S)  
T. Li, MA, Ph D  
H.V. Luong, MA, Ph D  
S.K. Pfeiffer, MA, Ph D  
G.A. Smith, MA, Ph D (U)  
D.H. Turner, BA, Ph D (T)

### Associate Professors

S. Bamford, MA, Ph D (S)  
M. Chazan, M Phil, Ph D (V)  
H. Cunningham, MA, Ph D (U)  
M.P. Evison, M Sc, Ph D (University of Toronto Mississauga)  
T.M. Friesen, MA, Ph D  
G.S. Gillison, BA, Ph D (S,T)  
I. Kalmar, MA, Ph D (W,V)  
M.A. Latta, MA, Ph D (S)  
S. Lehman, MA, Ph D  
M.D. Levin, MA, Ph D (N)  
B. McElhinny, MA, Ph D  
L.A. Sawchuk, MA, Ph D (S)  
D. Sellen, MA, Ph D  
J. Sidnell, MA, Ph D (University of Toronto Mississauga)  
K. Sieciechowicz, MA, Ph D (U)  
D.G. Smith, MA, Ph D (University of Toronto Mississauga)

### Assistant Professors

J. Barker, MA, Ph D  
D. Clark, MA, Ph D (University of Toronto Mississauga)

N. Dave, MA, Ph D  
H. Miller, MA, PhD (University of Toronto Mississauga)  
L. Mortensen, MA, Ph D (S)  
V. Napolitano-Quayson, AM, Ph D  
E. Parra, BS, Ph D (University of Toronto Mississauga)  
T.L. Rogers, MA, PhD (University of Toronto Mississauga)  
M. Roksandic, MA, DEA, Ph D  
T. Sanders, MA PH D (University of Toronto Mississauga)  
S. Satsuka, MA, Ph D  
M. Schillaci, MA, PH D (S)  
R.J. Song, MA, Ph D (S)  
W.C. Sung, MA, Ph D  
H. Wardlow, MA, Ph D, MPH  
D.J. Young, MA, Ph D (S)

Anthropology is concerned with human biological, social, and cultural development. This broad mandate has led to the division of the discipline into four distinctive areas of research.

Archaeology studies surviving evidence of people's activities in the past. From the excavation of sites and the analysis of artifacts uncovered, archaeologists draw conclusions about the organization of social groups, their adaptations to environment, and their spatial and temporal relations. General research topics include the origins of culture and technology, adaptations to extreme climates, the peopling of the New World, development of food production and political inequality in the Old and New Worlds.

Linguistic and Semiotic Anthropology studies how language and other systems of human communication contribute to the reproduction, transmission, and transformation of culture. It is concerned with the role of language and other communicative systems in reproducing and transforming such aspects of society as power relations, ideology, subcultural expression, as well as class, gender and ethnic identity.

Biological 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 Biological (Physical) 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. Biological anthropologists integrate biological and social variables in their explanations of the effects of evolution on humans and other primates.

Social and Cultural Anthropology: traditionally, Social Anthropology dealt with non-literate and isolated societies, which could be observed in their totality. Today, many social anthropologists also study such aspects of complex societies as peasantry, ethnic minorities, and industrial work groupings. Institutions and models of social behaviour are compared cross-culturally to establish more general concepts and theories.

Careers in Anthropology emphasize either theoretical, academic aspects or practical applications. Most institutions involved in teaching and research require anthropologists with a Ph.D. For practical applications, at least an M.A. is usually required. The Undergraduate Program provides excellent preparation for business or public service careers in which 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.

# Anthropology

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Undergraduate Program Administrator/Student Counsellor:  
Sidney Smith Hall, Room 1030 (416-978-6414).

## Anthropology Programs

Enrolment in the Specialist, Major and Minor Programs is limited to students with a cumulative GPA of 2.5 or above. Students may enroll at the end of First Year, or at any later time if they have a cumulative GPA of 2.5 or above.

PLEASE NOTE THAT NOT ALL COURSES ARE OFFERED EVERY YEAR. CONSULT THE CURRENT TIMETABLE FOR COURSE OFFERINGS.

\* Note: ANT courses are those offered with the following prefixes: ANT, ABS, ARH, JAC, JAL, JAP and JPA.

### Anthropology (General) (Arts program)

#### **Specialist program:**

(11 full courses or their equivalent, including at least one 400-series course)

1. ANT 100Y1
2. Three 200+ series ANT\* courses from one of Groups A, B, C, D
3. Three 200+ series ANT\* courses from a Group other than the group chosen in 2. (above)
4. Four additional ANT\* courses with at least one full course at the 400-level

#### **Major program:**

7 ANT\* full courses including ANT 100Y1 and at least three 300+ series courses

#### **Minor program:**

4 ANT\* full courses, of which at least one must be 300+ series course; excluding ANT497/498/499

### Anthropology (Linguistic & Semiotic) (Arts program)

#### **Major program:**

(7 full courses or their equivalent, including at least two 300+ series courses)

1. ANT 100Y1
2. ANT253H1, and either ANT204Y1 or VIC220Y1
3. Three courses from Group B (VIC 220Y1 may be substituted for one full course, if it is not used to satisfy requirement 2)
4. 1.5 additional ANT\* courses

### Anthropology (Biological) (Science program)

#### **Specialist program:**

(11.5 full courses or their equivalent, including at least one 400-series course)

First Year

1. ANT 203Y
2. BIO 150Y
3. One of: MAT135Y1/137Y1/157Y1/(CHM 138H1, 139H1)/PHY110Y1/138Y1/140Y1/GGR100Y1/GLG (105H1, 110H1)

Higher Years

1. One full course equivalent from: BIO 250Y1/251Y1/252Y1/260H1/CHM220H1/247H1/EEB 214H1/215H1/263Y1/265Y1/ENV234Y1/235Y1/GGR201H1/GLG 217H1/HMB 200H1/201H1/202H1/265H1/320H1/NFS284H1/PSL201Y1
2. One of: STA220H1/221H1/JBS229H1/GGR271H1/PSY201H1/202H1
3. Two of ANT326Y1/333Y1/334Y1
4. Two additional 300+ series full course equivalents from group C, with at least one full course at the 400 level.
5. One additional full course equivalent from another ANT group.
6. Two full courses or their equivalent from the following: ANA300Y1/ANT311Y1/330Y1/406H1/410H1/415Y1/419H1/EEB319H1/321H1/322H1/323H1/324H1/328H1/362H1/365H1/428H1/462H1/GGR272H1/273H1/GLG206H1/216H1/217H1/360H1/436H1/HMB300H1/302H1/310H1/420H1/MGY312H1/NFS382H1/PSL302Y

#### **Major program:**

(7 full courses or their equivalent, including at least two 300+series courses)

First Year:

1. BIO 150Y1
2. One of: MAT 135Y/137Y/157Y/(CHM 138H, CHM 139H)/PHY 110Y/138Y/140Y/GGR 100Y/GLG (105H1, 110H1)

Higher Years:

1. ANT 203Y1
2. At least 2 courses from ANT326Y1, 333Y1, 334Y1
3. Two other courses from Group C

### Anthropology (Social/Cultural) (Arts program)

#### **Specialist program:**

(11 full courses or their equivalent, including at least one 400-series course)

1. ANT 100Y1
2. ANT 204Y1
3. One from ANT 200Y1, 203Y1, ANT253H (if ANT253H is taken, one additional ANT half course must be taken)
4. Six courses from Group D (one of ANT 323Y1 or ANT 329Y1 may be substituted), with at least one full course at the 400-level
5. Two additional ANT\* courses

### Anthropology Groups

#### **Group A: (Archaeology)**

ANT 200Y1, 299Y1, 311Y1, 315H1, 316H, 317H, 319Y1, 406H1, 409H1, 410H1, 411H1, 412H1, 415Y1, 417H1, 419H1, 420H1, 421H, 431H1, 497Y1/498H1/499H1; ARH 305H1, 312Y1, 360Y1, 361H1, 482H1; JPA 305H1, 310H1, 400Y1

#### **Group B: (Linguistic and Semiotic)**

ANT 253H, 299Y1, 323Y1, 329Y1, 425H1, 426H1, 427H1, 444Y1, 483H, 497Y1/498H1/499H1; JAL 328H1, 355H1, 401H1

#### **Group C: (Biological)**

ANT 203Y1, 299Y1, 326Y1, 330Y1, 333Y1, 334Y1, 429H1, 430H, 431H1, 434H1, 436H1, 471H1, 481H1, 497Y1/498H1/499H1

#### **Group D: (Social-Cultural)**

ANT 204Y1, 299Y1, 322H1, 340H, 341Y, 343Y1, 344Y1, 346H1,



347YI, 348YI, 349HI, 350H, 352Y, 354Y, 362YI, 363YI, 364YI, 365HI, 366HI, 367YI, 368HI, 426HI, 440HI, 442HI, 443H, 444YI, 445HI, 446HI, 447HI, 448HI, 450HI, 452HI, 453HI, 454HI, 455YI, 456H, 458H, 459H, 460H, 461YI, 462H, 471H, 480HI, 497YI/498HI/499HI; EAS 272H; JAG 321HI; JHA 453HI; NEW252HI, 350HI

## Aboriginal Studies - See Aboriginal Studies

## Archaeological Science & Archaeology - See Archaeology

## Environmental Anthropology Minor- See Centre for Environment

A program focused on understanding the diverse nature of interactions between humans and their environments, both in the past and in modern global society.

## Past Environments Specialist - See Centre for Environment

A multi-disciplinary program focused on the changing nature of the relationship between the environment and humans over the past 2 million years. Co-sponsored by the Centre for Environment, the Department of Anthropology, and the Program in Archaeology. Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 1049A, Earth Sciences Centre, 416-946-8100 or david.powell@utoronto.ca, or Undergraduate Program Administrator, Department of Anthropology, Room 1030, Sidney Smith Hall, 416-978-6414.

## Anthropology Courses

Anthropology offers Social Science and Science Courses; below are first, Social Science courses, then Science courses.

### Anthropology Social Science Courses

See page 33 for Key to Course Descriptions.

**SSC199HI/YI First Year Seminar 52S**  
Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first-year students. It may serve as a distribution requirement course; see page 47.

**ANT100YI Introduction to Anthropology 52L**  
Society and culture from various anthropological perspectives: socio-cultural, biological, archaeological, and linguistic.

**ANT200YI Introduction to Archaeology 52L, 26P**  
Cultures in the Old and New Worlds from an archaeological perspective. Principles of prehistoric research are applied to archaeological information, from the Early Pleistocene to the beginning of written history.  
Recommended Preparation: ANT100YI

**ANT204YI Social & Cultural Anthropology 52L, 26T**  
Basic approaches to the understanding of social and cultural organization in societies of varying complexity. Comparative social institutions: economic, political, familial, and ritual. Belief systems and symbolic thought, the individual in society, sources of stability and change in socio-cultural systems. Anthropological perspectives on current social issues.

Recommended preparation: ANT100YI

**ANT253HI Language & Society 26L**

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.

Recommended Preparation: ANT 100YI

Exclusion: JAL253HI

**ANT299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**ARH305HI Archaeological Interpretation**

See Archaeology

**ANT311YI Archaeological Fieldwork TBA**

Practical field training through six weeks of excavation on an archaeological site. Basic principles of artifact handling and classification. (Offered only in Summer Session)

Prerequisite: ANT200YI

**ARH312YI Archaeological Laboratory**

See Archaeology

**ANT315HI Arctic Archaeology 26L**

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: ANT200YI

**ANT316HI Ancient Cultures of Mesoamerica 26L**

This course provides an introduction to the cultures of Mesoamerica, from the first arrival of indigenous peoples to the appearance of the Spaniards in the sixteenth century. Students will become acquainted with cultures including Olmec, Zapotec, Teotihuacan, Maya, and Aztec, while also considering issues of method and evidence.

Prerequisite: ANT200YI

This is a Social Science course.

**ANT317HI Archaeology of Eastern North America 26L**

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: ANT 200Y

This is a Social Science course.

**ANT319YI Archaeology of North America 52L (formerly ANT 310YI)**

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.

Exclusion: ANT309HI, 310YI

Prerequisite: ANT200YI

# Anthropology

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**ANT322HI Anthropology of Youth Culture 26L**

This course will present various perspectives on the nature and dynamics of youth culture. It will discuss the research accumulated over the past quarter century on youth lifestyles, from fashion and music to the formation and spread of slang. It will also look at the various critical and controversial aspects of adolescence in contemporary culture.

Prerequisite: ANT 204Y I

**ANT323YI Social Theory through Popular Culture 52L, 26T**

Theories of culture and society, with examples from ordinary life and fantasy and their popular expressions.

Prerequisite: ANT204Y I/ANT253HI/ one other 200+ course in ANT/SOC

**JAL328HI Writing Systems 26L**

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)

Prerequisite: ANT100Y I/LIN100Y I

**ANT329YI Language & Power Structure 52L**

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, ethnic relations, consumption patterns, advertising, and politics with a focus on North America.

Prerequisite: ANT204Y I/ANT253HI/ one of 200+ series "YI" course in SOC/POL/Women's Studies

**ANT340HI Anthropology of Latin America 26L**

Provides a framework for understanding current anthropological issues in the different geo-political regions of Latin America. Special attention will be paid to historical/conceptual development of the discipline in the region, and the course will introduce a debate about the death and "resurgence" of area studies.

Prerequisite: ANT204Y I

**ANT 341YI China in Transition 52L**

This course offers a general introduction to contemporary China in a global context from an anthropological perspective. This year-long course covers four major aspects of Chinese culture and society: Political Economy, Social Relations, Modernities and Modernization, and Overseas Chinese. Recommended Preparation: ANT 204Y I

**ANT343YI Social Anthropology of Gender 52L**

Social anthropological perspectives on variations in gender roles and systems. Examines, through comparison of ethnography, the relationship of gender to social organization, economic and political processes, belief systems and social change.

Prerequisite: ANT204Y I

**ANT344YI Anthropology of Southeast Asia 52L**

Pre-industrial sociocultural types and their transformation in the national development of Southeast Asia.

Prerequisite: ANT204Y I

**ANT346HI Anthropology of Food 26L**

Social anthropological perspective on the nature and meaning of food production, culinary cultures, industrial food, food as metaphor, and famine and hunger.

Prerequisite: ANT100Y I/204Y I

**ANT347YI Metropolis: Global Cities 52L**

The role of culture, cultural diversity, space and performance in urban institutions and settings. The cultural context and consequence of urbanization.

Recommended preparation: ANT204Y I

**ANT348YI Anthropology of Health 52L**

Aspects of health and disease in cross-cultural perspective. Critical views on the interface between conventional "western" medicine and alternative, indigenous, and traditional therapeutic systems.

Prerequisite: ANT204Y I

**ANT349HI Globalization & Underdevelopment 26L**

The contribution of ethnographic study to the understanding of regional disparities within Western and Third World nations. The inter-relationship between persistent economic underdevelopment, expressions of regional identity and class formation by reference to comparative ethnographic examples.

Prerequisite: ANT204Y I

**ANT350HI Globalization and the Changing World of Work 26L**

The course uses ethnographic material to examine the ways in which global forces have changed the nature of work in different sites since World War Two - North America, Europe, and the countries of the South are selectively included.

Prerequisite: ANT204Y I

**ANT352YI South Asia: Practices, Theories, Representations 52L**

This course examines key themes in the constitution of South Asia as an area for ethnographic analysis. The first half analyzes classic texts in the anthropology of South Asia, examining the rise of gatekeeping concepts such as caste, the village, collectivity, and patriarchal social organization. The second half focuses on ethnographies of popular culture, sexuality and gender and political mobilizations.

Prerequisite: ANT204Y I

This is a Social Science course.

**ANT354YI Japan in Global Context: Anthropological Perspectives 52L**

This course examines how what we know as Japan and its culture has been constructed through various types of global interactions. The course uses popular culture, travel encounters and transnational capitalism as lenses for analyzing the dynamics of Japanese society. Topics include gender and sexuality, race and ethnicity, social and family life, work and leisure, and Japanese identity amid changing global power relations. The focus will be on cultural politics: how competing ideas of Japanese society are expressed through particular cultural practices, and how people engage with these practices in order to negotiate their positions in the world.

Prerequisite: ANT204Y I

This is a Social Science course.

**JAL355HI Language and Gender 26L**

Ways in which women and men differ in their use of language and in their behaviour in conversational interaction; ways in which language reflects cultural beliefs about women and men. (Given by the Departments of Anthropology and Linguistics)

Prerequisite: Two full course equivalents at the 200-level in ANT/JAL/LIN/SOC

Recommended preparation: ANT204Y I/ANT253HI/

NEW261Y I/ SOC200Y I/214Y I/215Y I

<b>ARH360YI</b>	<b>Prehistory of the Near East</b>	<b>52L</b>	
See Archaeology			movement activists. By analyzing several case studies, the course explores the particular difficulties and rewards of working with social movements as well as some of the intellectual, ethical and political dilemmas that result of an engaged anthropology. Prerequisite: ANT 204Y I
<b>ARH361HI</b>	<b>Field Archaeology</b>	<b>TBA</b>	
See Archaeology			<b>ANT395Y0/</b> <b>Special Topics in Anthropology</b> <b>52S</b> <b>396Y0</b> Studies in anthropology taken abroad. Areas of concentration vary depending on the instructor and year offered. Recommended Preparation: ANT 100Y I/204Y I
<b>ANT362YI</b>	<b>Anthropological Studies of Poverty, Social Inequality and the U.S. State</b>	<b>52L</b>	
This course examines the growing field of U.S. anthropology through ethnographic studies focusing on state institutions and patterns of social inequality. Particular emphasis is placed on research examining local models of governance, policing, immigration reform, unionization and social assistance programs in the context of shifting governmental policies. Prerequisite: ANT 204Y I			<b>ANT398H0/</b> <b>Independent Experiential Study Project</b> <b>399Y0</b> An instructor-supervised group project in an off-campus setting. See page 47 for details.
<b>ANT363YI</b>	<b>Anthropology of State Societies</b>	<b>52L, 26T</b>	
Origins, history and internal dynamics of early and modern state societies, examined with a view to placing our own system in an historical and comparative perspective. Case studies include material from Africa, Asia, the Americas and Europe. Exclusion: ANT363HI Prerequisite: ANT204Y I			<b>JAL401HI</b> <b>Field Linguistics</b> <b>52P</b> Practice in language analysis based on elicited data from a native speaker of a foreign language, emphasizing procedures and techniques. (Given by the Departments of Anthropology and Linguistics) Prerequisite: Completion of LIN322HI, 331HI except for students in their final year where LIN331HI is a corequisite.
<b>ANT364YI</b>	<b>Environment &amp; Globalization</b>	<b>52L</b>	
This course will examine the relationships between humans and the environment in the context of contemporary efforts to 'develop' within or in opposition to the political economy of neoliberal globalization. We will critically examine the discourses of progress and environment within a broader theoretical inquiry of structure/agency and power. Prerequisite: ANT 204Y I			<b>ANT406HI</b> <b>Lithic Analysis</b> <b>26L, 13P</b> Core reduction strategies, replication, experimental archaeology, use-wear, design approaches, ground stone, inferring behaviour from lithic artifacts. Prerequisite: ANT200Y I, ARH312Y I, 305HI
<b>ANT365HI</b>	<b>Native America and the State (formerly ANT365YI)</b>	<b>26L</b>	
Culture areas and types existing in precontact and early contact times in North America; problems arising out of contacts between North American Indians and Euroamericans. Prerequisite: ANT204Y I Exclusion: ANT 365Y I			<b>ANT409HI</b> <b>Archaeology of Landscapes &amp; Regions</b> <b>26L, 13P</b> The survey and spatial analysis of archaeological evidence over territories larger than individual camps, villages or towns. Settlement systems, regional exchange and communication, rank-size analysis, nearest neighbour analysis etc. Prerequisite: ARH305HI Recommended preparation: GGR270HI
<b>ANT366HI</b>	<b>Anthropology of Social Movements: Theory and Method (formerly ANT 366YI)</b>	<b>26L, 13T</b>	
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: ANT204Y I Exclusion: ANT366Y I			<b>ANT410HI</b> <b>Hunter-Gatherers Past &amp; Present</b> <b>26S</b> Examines the diversity of recent hunter-gatherer societies, as a source of analogues for understanding the archaeological record of past foraging peoples. Prerequisite: ARH305HI
<b>ANT367YI</b>	<b>Indigenous Spirituality</b>	<b>52L</b>	
This course focuses upon religion and spirituality amongst peoples with a direct, experiential relationship to the world. The first term examines case studies from Australia, Native North America and Africa; the second term examines aspects of the "world religions". Prerequisite: ANT204Y I/RLG201Y I			<b>ANT411HI</b> <b>Advanced Archaeological Theory</b> <b>26S</b> Seminar in the critical examination of major schools of archaeological thought. Prerequisite: ARH305HI
<b>ANT368HI</b>	<b>Ethnography &amp; Social Movements</b>	<b>26L</b>	
This course focuses on ethnographic studies of social movements produced both by anthropologists and social			<b>ANT412HI</b> <b>Historical Archaeology</b> <b>26L, 13P</b> 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: ANT200Y I/HIS374HI I/384HI
			<b>ANT415YI</b> <b>Laboratory in Faunal Archaeo-Osteology</b> <b>52S, 52P</b> Examination and interpretation of faunal material from archaeological sites as evidence for culture. Prerequisite: ARH312Y I
			<b>ANT417HI</b> <b>Archaeology of Settlements &amp; Households</b> <b>26L</b> Methods for studying the socio-spatial aspects of the archaeological evidence for households and communities. Prerequisite: ANT200Y I, ARH305HI

# Anthropology

<p><b>ANT419HI</b>     <b>Current Debates in Palaeolithic Archaeology</b>     <b>26S</b></p> <p>Current research in Palaeolithic Archaeology reflecting emerging issues. Prerequisite: ANT 200YI or ANT 203YI</p>	<p>burial. The course is of interest to archaeological and biological anthropology students but is not limited to these two fields.. Prerequisite: Any 300-level course from Group A or C This is a Social Science or Science course.</p>
<p><b>ANT420HI</b>     <b>Archaeology of Inequality</b>     <b>26L</b></p> <p>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: ANT200YI, ARH305HI Recommended preparation: ANT363YI</p>	<p><b>ANT440HI</b>     <b>Society in Transition</b>     <b>26L</b></p> <p>An exploration of the conceptual tools used to understand reflexive modernity. Focus on the articulated web of global and local networks that produce simultaneously inequalities and potentially new identities and collectivities. Exclusion: ANT440YI Prerequisite: ANT204YI, at least one area course in anthropology</p>
<p><b>ANT421HI</b>     <b>Royal Courts of the Ancient New World</b>     <b>26L</b></p> <p>This course examines the institution of the royal court in the ancient New World as a nexus for negotiation of power and assertion of cultural identity. Case studies concentrate on the Maya, Aztec and Inca cultures provide important comparative contexts. We also explore the integration of textual and material evidence in investigating ancient cultures. Prerequisite: ARH305HI This is a Social Science course.</p>	<p><b>ANT442HI</b>     <b>Anthropology and New Technologies</b>     <b>26L</b></p> <p>The relationship between technology and culture through a focus on reproductive, genetic and communications technologies. Prerequisite: ANT 204YI, a 300 level, or above, Social Cultural Anthropology course</p>
<p><b>ANT425HI</b>     <b>Language in Anthropological Thought</b>     <b>26L</b></p> <p>How ideas about language fit into the overall views of humankind as expressed by selected anthropologists, linguists, sociologists, and philosophers. Exclusion: ANT425YI Prerequisite: ANT204YI/ ANT253HI</p>	<p><b>ANT443HI</b>     <b>Anthropology of Travel &amp; Tourism</b>     <b>26L</b></p> <p>Since ancient times, travel has been central to human interaction. The course explores theories about travel, translation, and tourism (and anthropology's relationship to all of these) and helps students critically examine a particular travel encounter. Main topics include cultural representation, authenticity, economic development, social inequality, identity, gender, ethnicity, nationality, postcolonialism, and globalization. Prerequisite: ANT204Y plus any 300-level course in Social-Cultural or Linguistic Anthropology This is a Social Science course.</p>
<p><b>ANT426HI</b>     <b>Orientalism: Western Views of Muslims and Jews</b>     <b>39L</b></p> <p>Language and imagery representing the "oriental" in the West. Emphasis on representations of the "Semites", the Islamic peoples of North Africa, the Middle East and South Asia, as well as the Jews from the mid-nineteenth to the mid-twentieth century. Prerequisite: ANT323YI/329YI/any 300-level course in INI/VIC/ NMC/Jewish Studies</p>	<p><b>ANT444YI</b>     <b>Research Methods in Social &amp; Linguistic Anthropology</b>     <b>52S</b></p> <p>Social and linguistic anthropological approaches to research in urban settings. Methodology, field techniques and research ethics. Students must formulate and complete a field research project. Prerequisite: ANT204YI</p>
<p><b>ANT427HI</b>     <b>Language, Ideology, &amp; Political Economy</b>     <b>26S</b></p> <p>The role of language in the reproduction and transformation of ideology and political economy. Readings include linguistic analyses of gender and class relations in local and global contexts, as well as seminal works in linguistics and other social sciences. Prerequisite: ANT204YI/ANT253HI</p>	<p><b>ANT445HI</b>     <b>Science as Culture and Practice</b>     <b>26S</b></p> <p>This course examines science and technology from an anthropological perspective. Throughout the course, in addition to introducing major concepts of science studies, we will examine multiple "concrete things," like computers as cultural artifacts, connected to wider social, political, economic, ideological, and cultural contexts. Recommended Preparation: ANT 204YI</p>
<p><b>ANT431HI</b>     <b>Mortuary Practices in the Archaeological Record</b>     <b>26L</b></p> <p>Death is the only rite of passage that leaves frequent archaeological traces, through burial and mortuary rituals. It provides us with a rare opportunity to move beyond material culture and look into the cognitive, ritual and ideological aspects of a past human group, bringing archaeology closer to addressing anthropological questions. As we learn how to examine cultural identity, represented through burial and ancestral ritual, and biological reality of demographic, occupational and pathological conditions, the course will provide students with an understanding of the interpretative potential of the human skeleton as a central feature of any</p>	<p><b>ANT446HI</b>     <b>Anthropology of Western Europe: Issues and Ideas (formerly ANT 446YI)</b>     <b>26L</b></p> <p>Europe is a landmass and a (transnational) collection of people – in both cases rather vaguely defined. Europe is also an idea, one often closely associated with "western civilization". So if anthropology is a combination of the <b>ethnographic</b> study of a place and its people, and also the critical study of a <b>culture</b>, then certainly both of these perspectives could usefully be applied to a course on Europe. Both of these dimensions are also of pressing concern to within Europe today. Exclusion: ANT 446YI Prerequisite: ANT204YI</p>

- ANT447HI Aboriginal Australia 26S**  
 The course investigates the nature and significance, in history and the history of ideas, of the ways of life of the Australian Aborigines. The emphasis is on the influence of religion and music on the economic, political and social organization of the people.  
 Prerequisite: ANT 367YI/permission of the instructor
- ANT448HI Ethnicity & Nationalism 26S**  
 An examination of theories and critique of ethnicity and nationalism from an anthropological perspective. The problem of the cultural context of ethnicity. Case studies.  
 Prerequisite: ANT204YI, one 300-level course in Social Cultural or Linguistic Anthropology
- ANT450HI Anthropological Approaches to Environmentalism 26S**  
 Comparative examination of human ecological adaptations, livelihood strategies, spiritual and cultural values and their relation to environmental maintenance or degradation. Explores contemporary "grass roots" environmental movements and ideologies.  
 Prerequisite: ANT204YI, a 300-level or above Social Cultural Anthropology course
- ANT452HI Anthropology & Human Rights 26S**  
 The concept of human rights in its universal claims rises fundamental questions for anthropology as it challenges a central value of the discipline: cultural relativism. Students are asked to consider epistemological and theoretical questions and case studies (e.g. claims of rights by ethnic collectivities).  
 Prerequisite: ANT204YI, one 300 level social-cultural/linguistic ANT course
- ANT453HI Sub-Arctic Issues 26S**  
 Major issues in the history and development of Sub-Arctic Native people of Canada: Indian social structure, European/ Native interaction, land tenure, politics and religion.  
 Prerequisite: ANT204YI, 365HI
- ANT454HI The Anthropology of Music & Art (formerly ANT360YI) 26S**  
 This course investigates the connection between religion, music and society from an anthropological point of view. The primary focus is on societies where music is seen by people as the principal vehicle for religious expression. Examination of religions and musics of Australian aboriginal, Melanesian, Native North America, African societies, others.  
 Prerequisite: ANT367YI  
 Exclusion: ANT360YI
- ANT455YI International Health: Anthropological Perspectives 52L**  
 This course examines international health, focusing on the health problems of "third world" populations and the contributions and critiques provided by medical anthropology. Topics include: the political ecology of infectious disease, disease eradication campaigns, population policy and reproductive health, the AIDS pandemic, and the quest for culturally appropriate interventions.  
 Prerequisite: ANT348YIY
- ANT456HI Sexuality, Culture and Movement 26L**  
 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: ANT 204Y plus any 300-level course in Social-Cultural or Linguistic Anthropology  
 This is a Social Science course.
- ANT458HI Anthropology of Crime, Law and Order 26L**  
 Theoretical and methodological approaches to the anthropological study of crime, law, and order with case studies from around the world.  
 Prerequisite: ANT204YI and a 300 level Social Cultural ANT Course.
- ANT459HI Maps and Places 26L**  
 A study of the cross-cultural meaning of two-dimensional representations of space and the socio-political relevance of place.  
 Prerequisite: ANT204YI
- ANT 460HI Global Perspectives on Women's Health 26S**  
 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: ANT 343YI/348YI
- ANT461YI The History of Anthropology and the Limits of Theory 52L**  
 History and development of theories which underlie contemporary anthropology.  
 Prerequisite: ANT204YI
- ANT 462HI Anthropology and the Intimate: Studies in Affect and Action 26S**  
 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: ANT 204Y plus any 300-level course in Social-Cultural or Linguistic Anthropology
- ANT471HI Human Nutritional Ecology 26S**  
 Approaches from various sub-fields within anthropology are combined with others from zoology, ecology, community nutrition, and global health to enrich our understanding of the evolved nutritional needs of humans across time and space and their changing relationship to culture. Through intensive reading and discussion of a wide range of recent primary research articles, we explore ways in which the study of foodways, food systems, and human ecology can help us design better strategies for improving health in different settings.  
 Prerequisite: ANT 203YI/204YI  
 This is a Social Science or Science course.

# Anthropology

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**ANT480HI Special Topics in Anthropological Research 26S**

Unique opportunity to explore a particular anthropological topic in-depth. Topics vary from year to year.  
Prerequisite: A 200+ level ANT course

**ARH482HI Special Topics in Archaeology 26S**

See Archaeology  
Unique opportunity to explore a particular archaeological topic in-depth. Topics vary from year to year.  
Prerequisite: A 200+ level ANT course

**ANT483HI Special Topics in Linguistic Anthropology 26S**

This course will focus on an advanced topic in Linguistic Anthropology. Topic will vary from year- to-year.  
Prerequisite: ANT204Y1/ANT253HI/300 Level course in Linguistic and Semiotic anthropology

**ANT497YI/ 498HI/ 499HI Independent Research TBA**

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. Application for enrolment should be made to the Department in the preceding term. A maximum of one year of Independent Research courses is allowed per program.  
Prerequisite: Permission of Undergraduate Coordinator and Supervisor

## Anthropology Science Courses

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See page 33 for Key to Course Descriptions.

**ANT203YI Human Biology & Evolution 52L, 26P**

Introduction to Biological Anthropology, investigating various lines of evidence for human evolution including our primate relatives and an exploration of the relevance of human origins to contemporary human biology and variability.  
Recommended preparation: ANTI00Y1/BIO150Y1

**JPA305HI Introduction to Archaeometry 26L, 13P**

Introduction to methods for remote sensing of buried archaeological remains, dating, and analysis of ancient materials. Application of methods and interpretation of results in archaeological contexts. (Offered in alternate years) (Given by the Departments of Physics and Anthropology)  
Exclusion: JPA300Y1

**JPA310HI Physics and Archaeology 26L, 13P**

Introduction to the principles behind archaeometric methods for remote sensing, dating, and analysis of archaeological materials, and interpretation of results. Offered in conjunction with JPA305HI. (Offered in alternate years) (Given by the Departments of Physics and Anthropology)  
Exclusion: JPA300Y1  
Prerequisite: Any 1st-year Physics course/permission of instructor  
Co-requisite: JPA305HI

**ANT326YI Human Evolutionary Anatomy 26L, 39P (formerly ANT 332Y1)**

A detailed examination of human musculo-skeletal anatomy from the comparative and evolutionary perspectives. Allometry, basic biomechanics, functional anatomy, and the structure and function of human mastication, the brain, the forelimb and bipedalism. Labs make use of the large collection of primate skeletal material and fossil human casts.

Exclusion: ANT332Y1  
Prerequisite: ANT203Y1

**ANT330YI Paleoanthropology Field School 26L, 78P (Offered on an irregular basis)**

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)  
Prerequisite: ANT203Y1

**ANT333YI Living Primate Adaptations 52L, 26P**

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.

Exclusion: ANT333HI  
Prerequisite: ANT203Y1  
Recommended preparation: ANT326Y1, 334Y1; BIO150Y1

**ANT334YI Human Skeletal Biology 39L, 39P**

Exploration of the development and maintenance of the human skeleton and dentition, with emphasis on application to archaeological, forensic and biomedical sciences.  
Prerequisite: ANT203Y1

**JPA400YI Advanced Physics & Archaeology 156P**

An introduction to research in archaeometry and archaeological prospecting. Possible projects: magnetic and resistivity surveying of archaeological sites; thermoluminescence measurements; neutron activation analysis and x-ray fluorescence analysis of artifacts; radiocarbon dating by atom counting; lead isotope analysis. (Offered in alternate years) (Given by the Departments of Physics and Anthropology)  
Prerequisite: JPA300Y1/(JPA305HI, 310HI)

**ANT415YI Laboratory in Faunal Archaeo-Osteology 52S, 52P**

Examination and interpretation of faunal material from archaeological sites as evidence for culture.  
Prerequisite: ARH312Y1

**ANT429HI Palaeoanthropology 26L, 52P (formerly ANT429Y1)**

Method and theory in paleoanthropology focusing on reconstructions of human evolutionary history and the behaviour of fossil hominids. Identification and analysis of fossil human material and hominid systematics. Includes an extensive lab component using a large collection of primate skeletons and fossil human casts.  
Exclusion: ANT429Y1, ANT 332Y5 (University of Toronto Mississauga), ANT C17H3 (Scarb)  
Prerequisite: ANT203Y1, ANT326Y1

**ANT430HI Primate Conservation Biology 26L**

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

**ANT431HI Mortuary Practices in the Archaeological Record 26L**

Death is the only rite of passage that leaves frequent archaeological traces, through burial and mortuary rituals. It provides us with a rare opportunity to move beyond material culture and look into the cognitive, ritual and ideological aspects of a past human group, bringing archaeology closer to addressing anthropological questions. As we learn how to examine cultural identity, represented through burial and ancestral ritual, and biological reality of demographic, occupational and pathological conditions, the course will provide students with an understanding of the interpretative potential of the human skeleton as a central feature of any burial. The course is of interest to archaeological and biological anthropology students but is not limited to these two fields..

Prerequisite: Any 300-level course from Group A or C  
This is a Social Science or Science course.

**ANT434HI Health, Diet & Disease in the Past 26L, 13P**

Advanced exploration of the life histories of past populations, through the application of palaeodietary analyses, palaeopathology and other appropriate research methods.

Prerequisite: ANT334Y1

**ANT436HI Primate Ecology & Social Behavior 26L**

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

**ANT471HI Human Nutritional Ecology 26S**

Approaches from various sub-fields within anthropology are combined with others from zoology, ecology, community nutrition, and global health to enrich our understanding of the evolved nutritional needs of humans across time and space and their changing relationship to culture. Through intensive reading and discussion of a wide range of recent primary research articles, we explore ways in which the study of foodways, food systems, and human ecology can help us design better strategies for improving health in different settings.

Prerequisite: ANT 203Y1/204Y1

This is a Social Science or Science course.

**ANT481HI Special Topics in Biological Anthropology 26S**

Unique opportunity to explore in-depth a particular topic in Biological Anthropology. Topics vary from year to year.

Prerequisite: A 200+ level ANT course

# Archaeology

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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 nature of hunter-gatherer technology and economy in the Pleistocene, the 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 programs allow students to explore archaeology in a multidisciplinary setting.

Students in either specialist 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 Fine Art History and 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 in the Social Sciences or Humanities, who may be interested in such fields as prehistoric, Aegean, Classical, historical and Near and Middle Eastern archaeology. 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 Prehistoric Archaeology Major (Arts program) is designed for students whose interests are in prehistoric archaeology, and who want to combine it with a Major in a field not traditionally associated with archaeology. See details below.

The Archaeological Science Specialist (Science program) allows students with science backgrounds to obtain training in areas of study related to archaeometry, geoarchaeology, osteoarchaeology, paleoethnobotany, and other archaeological sciences. See details below.

The Archaeological Science Major (Science program) allows students doing a Major in the mathematical or life sciences to combine that Major with training in archaeological sciences. See details below.

Students are encouraged to seek counselling and information about this program from the Anthropology Undergraduate Administrator/Student Counsellor, Anthropology (416-978-6414).

## Archaeology Programs

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1. Enrolment in the Specialist, Major and Minor Programs is limited to students with a cumulative GPA of 2.5 or above. Students may enroll at the end of First Year, or at any later time if they have a cumulative GPA of 2.5 or above.
2. Only ONE Archaeology Program may be selected.

## Archaeology (Arts program)

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### Specialist Program:

(10.5 full courses or equivalent, including at least one 400+series course)

First Year:

1. ANT 200YI
2. One of: ANT 100YI/CLA 160HI/GGR 100YI/NMC 101YI. If CLA 160HI is taken, an additional half course from Archaeology group A, B or C is required.

Second Year:

1. ARH 305HI
2. GGR 270HI\* ( or a half-course from STA 220HI, 221HI, 247HI, 248HI, 250HI, 255HI, 257HI, 261HI, ANT C35H3\*\*)
3. Two full course equivalents from ANT 203YI/204YI; CLA 230HI, 231HI;FAH 206HI, 207HI; NMC 260YI

NOTES:

\* Geography pre- or co-requisites waived for Anthropology students.

\*\* To be taken at the Scarborough Campus

Third and Fourth Years:

1. One full course equivalent from Group A
2. 2.5 courses from Groups B-C
3. Field Requirement: ANT 311YI/ARH 361HI/NMC 261YI. If ARH 361HI is taken, an additional ANT half-credit is required.
4. Lab Requirement: ARH 312YI/JPA (305HI, 310HI)

## Prehistoric Archaeology (Arts program)

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### Major Program:

(6 full courses or equivalent, including at least two 300+series courses)

First Year:

ANT 100YI

Second Year:

ANT 200YI

Third and Fourth Years:

1. ARH 305HI
2. 2.5 courses from the Anthropology Group A
3. Field and Lab Requirement: 1.0 course equivalent from: ANT 311YI/ARH 361HI/NMC 261YI/ARH 312YI/JPA 305HI, 310HI

## Archaeological Science (Science program)

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### Specialist Program:

(12 full courses or equivalent, including at least one 400+series course)

First Year:

1. ANT 200YI
2. One of: ANT 100YI/GGR 100YI/GLG (102HI, 110HI)
3. One of: BIO 150YI/CHM (138HI, 139HI)/MAT 135YI/137YI/157YI/PHY 110YI/138YI/140YI

Second Year:

1. ARH 305HI
2. ENV 236YI
3. One full course equivalent from: BIO251YI/EEB202HI; BIO250YI/EEB214HI/263YI; CHM 217HI; GGR 201HI, 205HI/270HI/272HI, 273HI; GLG 206HI/207HI/216HI/217HI;



Third and Fourth Years:

1. One course from Group A
2. One course from Group C
3. 2.5 courses from Group B
4. Field Requirement: ANT 311Y1/ARH 361HI/NMC 261Y1. If ARH 361HI is taken, an additional ANT half-credit is required.
5. Lab Requirement: ARH 312Y1/JPA (305HI, 310HI)

### Major Program:

(7 full courses or equivalent, including at least two 300+series courses)

First Year:

1. ANT 100Y1
2. At least one of: GGR 100Y1; MAT 135Y1/137Y1/157Y1; BIO 150Y1; CHM (138HI, 139HI); PHY 110Y1/138Y1/140Y1

Second Year:

ANT 200Y1

Third and Fourth Years:

1. ARH 305HI
2. One 300+series course from Groups A or C
3. 1.5 courses from Group B
4. Field and Lab Requirement: 1.0 course equivalent from: ANT 311Y1/ARH 361HI/NMC 261Y1 or ARH 312Y1/JPA (305HI, 310HI)

## Archaeology Groups

### Group A: Advanced Theory

ANT 409HI, 410HI, 411HI, 417HI, 420HI; HIS 425HI

### Group B: Method and Interpretation

1. Archaeometry: CHM 317HI, 414HI, 416HI, 418Y1; ENV 315HI; GGR 337HI; JPA 400Y1; NMC 369Y1
2. Ceramic and Lithic Analysis: ANT 406HI; NMC 369Y1, 462Y1, 465HI, 466HI, 469Y1
3. Geoarchaeology: ANT 409HI; ENV 315HI; GGR 301HI, 302HI, 307HI, 337HI, 373HI, 390HI, 413HI; GLG 340HI, 360HI
4. Osteoarchaeology and Zooarchaeology: ANT 326Y1, 334Y1, 415Y1, 429HI, 434HI; EEB 323HI, 324HI
5. Paleoethnobotany: EEB 330HI, 337HI, 340HI; GGR 302HI, 305HI, 310HI, 331HI, 390HI; HIS 318Y1

### Group C: Area Courses

1. Classical and Aegean Archaeology: CLA 230HI, 231HI, 232HI, 233HI, 362HI, 389HI; FAH 206HI, 207HI, 300HI, 304HI, 403HI
2. Egyptian Archaeology: JAL 328HI; NMC 343HI, 344HI, 362Y1, 382Y1, 461Y1, 467HI, 468HI
3. European and Celtic Archaeology: HIS 322Y1; SMC 344Y1, 345Y1
4. Historical Archaeology: ANT 412HI, GGR 336HI, 366HI, 446HI; HIS 456Y1
5. Islamic Archaeology: NMC 348HI, 349HI, 366Y1, 374HI, 376HI, 393HI, 464HI
6. Near Eastern Archaeology: JAL 328HI; NMC 346HI, 347HI, 360HI, 361HI, 363HI, 364HI, 370Y1, 461Y1, 466HI
7. North American Prehistory: ANT 315HI, 316H, 317H, 319Y1, 365HI, 421H
8. Old World Prehistory: ANT 419HI; ARH 360Y1; GGR 310HI

## Archaeology Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), ARH courses are classified as Social Science courses

### ARH305HI Archaeological Interpretation 26L

Transforming archaeological results into statements about people and their life ways. Covers basic archaeological theory, including research design, sampling, stratigraphy, seriation, formation and testing or evaluation of hypotheses, regional analyses. Introduces some of the major schools of archaeological theory, including New Archaeology and Post-Processual Archaeology.

Prerequisite: ANT200Y1

This is a Social Science course

### ARH312Y1 Archaeological Laboratory 26L, 52P

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, a half statistics course (e.g. GGR270HI\*, STA220HI, 221HI, 250HI, 257HI, 261HI, ANTC35H3\*\*.

#### Note:

\*Geography pre- or co-requisites waived for Anthropology and Archaeology students;

\*\* to be taken at the Scarborough Campus

This is a Social Science course

### ARH360Y1 Prehistory of the Near East 52L

From earliest times through the rise of complex hunter-gatherers, and the food producing revolution to politically complex societies in Southwest Asia.

Prerequisite: ANT200Y1/NMC260Y1

This is a Social Science course

### ARH361HI Field Archaeology TBA

Opportunity for students participating in non-degree credit archaeological digs to submit reports, field notes and term papers for degree credit.

Prerequisite: Permission of Undergraduate Co-ordinator and Supervisor

### ARH398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 47 for details.

### ARH482HI Special Topics in Archaeology 26S

Unique opportunity to explore a particular archaeological topic in-depth. Topics vary from year to year.

Prerequisite: A 200+ level ANT course

# Architectural Studies

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## A Collaborative Program of the Faculty of Arts & Science and the Faculty of Architecture, Landscape, and Design

### Faculty

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#### Program Director and Assistant Professor

A. Payne, BA, MA, PhD

#### Professors Emeriti

C. Corneil, B Arch

A. Eardley, AA Dip (Hons), MA, M Arch

A. Elken, Dipl Ing Arch

D. H. Lee, B Arch, M Sc, MBA

P. Prangnell, AA Dipl, M Arch

P. Sandori, Dipl Ing Arch

J.A. Stinson, Dipl Arch (Hon), MA

B. L. van Ginkel, B Arch, MCP

#### Professor

G. Baird, B Arch, AM (Hon)

L.W. Richards, B Arch, M Arch

B.W. Sampson, B Arch

#### Associate Professors

R. el-Khoury, BFA, B Arch, M Arch, MScAS, PhD

S.T. Fong, B Arch, M Arch

T. Kesik, MA Sc, Ph D

R. Levit, BA, M Arch

D. Lieberman, BFA(Cal Arts, AA Diploma (London)

A.T. Liu, BA, M Arch

P. Petricone, B Arch, M Arch

B. S. Shim, BES, B Arch

J. Shnier, BES, B Arch

#### Assistant Professors

T. Bessai, B Arch, M Arch

A. Blackwell, BES, B Arch, MUD

M.L. Lobsinger, BA, BES, B Arch, M Des

P. Scrivano, PhD

S. Williamson, B Sc, M Arch

\* For additional faculty listings please see Faculty of Architecture, Landscape, and Design *Calendar*

Architecture is both a profession and a discipline of study, offering a broad variety of career opportunities. As a profession it plays a pivotal role in the production of the built environment, bridging the technical and social, practical and theoretical. It is a cultural and artistic practice that is critically engaged with the forces of urbanization and technological change, the challenges of environmental sustainability, and the struggle for cultural expression. It involves the design, production, and organization of material culture from the scale of domestic objects to the scale of the metropolitan region. As such, studies in architecture interact with numerous related disciplines in the social sciences and humanities, as well as engineering, technology, and media. These studies may lead to professional graduate programs in architecture, landscape architecture, planning, and urban design,

as well as careers in related design disciplines, the arts, history, business, journalism, and public policy.

The Architectural Studies programs provide Major degree options for students wishing to study architecture as part of a liberal arts education. The program serves as an introduction to the discipline of architecture, focusing on the state of the art, current issues and emerging practices, all considered from critical, theoretical, and historical perspectives. Studio courses in design and visual communication provide opportunities to learn practical, formal, and analytical skills.

The Architectural Studies Major Programs (Hon. BA) contain concentrations in Architectural Design or in History, Theory, Criticism. The Architectural Design concentration is intended for students wishing an intensive exposure to architectural design within a broad liberal arts education; the History, Theory, Criticism concentration is intended for students wishing a broad interdisciplinary education in architectural studies but not wishing to pursue design. Introductory courses begin at the first-year level and lead into a sequence of courses in architectural design and representation, history, theory, and technology. Emphasis is placed on advanced theory and interdisciplinarity, since contemporary architecture is intimately tied to knowledge and practice in urbanism, environmentalism, literature, media, cultural theory, art, science and technology, as well as philosophy, economics, and political science. This program could usefully be combined with a major in another discipline, such as fine art, urban studies, or computer science.

Graduates who have completed the Architectural Studies Major program and have an Honours B.A. degree may apply to graduate professional programs in architecture or landscape architecture. For further information regarding the BA Architectural Studies program, contact: [enquiry.ald@utoronto.ca](mailto:enquiry.ald@utoronto.ca).

Students who are interested in pursuing graduate professional studies in architecture or landscape architecture and wish to apply to the Faculty's Master of Architecture or Landscape Architecture programs are advised that for the Master of Architecture the following specific courses are required: secondary school calculus (OAC Calculus, or MCB4U Advanced Functions and Introductory Calculus, Grade 12, University Preparation, or equivalent); secondary school physics (OAC Physics, SPH4U Physics, Grade 12, University Preparation, or equivalent); and, a university level half-credit course in architectural history. For the Master of Landscape Architecture the following specific courses at the undergraduate level are highly recommended: biology/ecology, geography, English, and history. For further information regarding admission to these programs, visit [www.ald.utoronto.ca](http://www.ald.utoronto.ca) or contact the Faculty of Architecture, Landscape, and Design at 416-978-5038. The Faculty sponsors a variety of lectures, exhibitions and other special events for members of the architectural community and the general public.

## Architectural Studies Programs

**NOTE:**The Architectural Studies Specialist Program has been discontinued effective the 2006/07 academic year. The Specialist option will not be available to incoming students when choosing a Major. The Program will however honour those Specialist students currently in the Program. Program requirement courses will be offered to ensure students graduate from the program. If you are in the Specialist Program and wish to complete your Program, please consult with the Program Office for further details.

### Architectural Studies (Arts program)

#### Major programs:

(8 full courses or their equivalent, including 2.0 FCEs at the 300+series)

Enrolment in the Architectural Studies Major Programs is limited. Students must have completed 4.0 full courses or their equivalent, including ARC 131HI and ARC 132HI. Minimum marks of at least 70% in both ARC 131HI and ARC 132HI are required. The student's Cumulative Grade Point Average will also be considered. Achieving minimum levels above does not guarantee admission.

**NOTE:**The Major programs include the 4.0 Core FCEs below plus 4.0 FCEs from one of the Concentrations below. Students must check all required prerequisites and co-requisites for courses before registering.

#### Core Courses for Architectural Studies programs (4.0 FCEs):

First Year:

1. Theory/Criticism: ARC 131HI, 132HI

Second Year:

1. Design: ARC 213HI
2. Visual: ARC 221HI
3. Theory/Criticism: ARC 231HI, and one of ARC 232HI, 233HI, 234HI, 235HI, 236HI, 237HI, 238HI or 239HI
4. History: FAH 270HI (replaces FAH 281HI), FAH 272HI (replaces FAH 282HI)

#### Major with Concentration in Architectural Design (4.0 FCEs):

1. Design: ARC 313HI, 314HI
2. Visual: ARC 321HI
3. History:  
1.0 FCE from: ARC 433HI, 437HI, 438HI; FAH 206HI, 207HI, 215HI, 216HI, 230HI (formerly FAH 274HI), 231HI (formerly FAH 279HI), 246HI, 300HI, 309HI, 316HI, 328HI (formerly FAH 369HI), 330HI, 362HI, 364HI, 370HI (formerly FAH 324HI), 371HI (formerly FAH 355HI), 372HI, 373HI, 374HI (formerly FAH 382HI), 375HI, 376HI, 380HI, 391Y0, 392Y0, 393Y0, 394Y0, 395Y0, 396Y0, 397Y0, 400HI, 404HI, 405HI, 410HI, 413HI, 421HI (formerly FAH316), 442HI, 470HI, 471HI, 477HI (formerly FAH 377HI); NMC 392HI, 393HI
4. Technics: one of ARC 341HI/342HI
5. 1.0 FCE from any of the courses in Groups A, B, C, D, E listed below. Students are encouraged to take additional courses from these Groups beyond the Major to fulfill degree requirements.

#### Major with Concentration in History, Theory, Criticism (4.0 FCEs):

1. Theory/Criticism: one additional of ARC 232HI, 233HI, 234HI, 235HI, 236HI, 237HI, 238HI, 239HI
2. History:  
0.5/1.0 FCE from: FAH 206HI, 207HI, 215HI, 216HI, 230HI (formerly FAH 274HI), 231HI (formerly FAH 279HI), 246HI  
  
1.0/1.5 FCEs from: ARC 431HI, 432HI, 433HI, 437HI, 438HI; FAH 300HI, 309HI, 316HI, 328HI (formerly FAH 369HI), 330HI, 362HI, 364HI, 370HI (formerly FAH 324HI), 371HI (formerly FAH 355HI), 372HI, 373HI, 374HI (formerly FAH 382HI), 375HI, 376HI, 380HI, 391Y0, 392Y0, 393Y0, 394Y0, 395Y0, 396Y0, 397Y0, 400HI, 404HI, 405HI, 410HI, 413HI, 421HI (formerly FAH316), 442HI, 470HI, 471HI, 477HI (formerly FAH 377HI); NMC 392HI, 393HI
3. 1.5 FCEs from any of the courses in Groups A, B, C, D, E listed below. Students are encouraged to take additional courses from these Groups beyond the Major to fulfill degree requirements.

#### Group A (Literary):

ENG 280HI (formerly ENG 267HI), 285HI, 290YI, 389YI (formerly ENG 369YI); JEF 100YI; VIC 160YI, 161YI, 201YI, 210YI, 300YI, 310YI, 320YI, 410YI, 411HI/YI; PHL 285HI; WLD 300YI

#### Group B (Urban):

ARC 331Y0, 433HI, 434HI, 435HI, 436HI; FAH 391Y0, 392Y0, 393Y0, 394Y0, 395Y0, 396Y0, 397Y0; GGR 124YI, 220YI, 339HI, 357HI, 361HI, 362HI, 363HI, 366HI; HIS 304HI; INI 235YI, 306YI, 307YI, 430YI, 446HI; JGI 346HI, JPF 455YI

#### Group C (Environ):

ENV 200YI, 321YI; GGR 107YI; INI 332HI, 335HI, 446HI; JGE 221YI; JIE 222YI

#### Group D (Sci/Tech):

HPS 201HI, 202HI, 306HI, 430HI, 431HI

#### Group E (Media):

INI 115YI, 322HI, 325YI, 428HI; VIC 120YI, 220YI, 320YI, 420YI, VIS 120HI

## Architectural Studies Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), ARC courses are classified as Humanities courses

#### ARC131HI Introduction to Architecture 26L

A comprehensive introduction to the discipline, art and profession of architecture using case studies, both historical and contemporary, local and international.

#### ARC132HI Contemporary Architecture 26L

An introductory survey of contemporary international architecture that examines how design is responding to technological change, environmental degradation, accelerating globalization of economy and media, and the politics of regional and cultural identity.

# Architectural Studies

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- ARC213HI Architectural Design I 39P**  
Introduction to architectural design conducted in a studio setting using a series of design projects that develop students' understanding of and skills with fundamental aspects of designing buildings and their environments.  
Prerequisite:ARC221HI; Enrolment in an ARC program
- ARC221HI Architectural Representation I 39P**  
An introduction to architectural drawing and representation in various media.  
Prerequisite: Enrolment in an ARC program
- ARC231HI Architecture and Technology 26L**  
A selected survey of projects in the history of architecture exemplary for exploring the relationship between architecture and technological change.
- ARC232HI Architecture, Media and Communication 26L**  
An introduction to the interrelationship between architectural theory and studies in media and communications during the twentieth century.
- ARC233HI Post-Colonial Studies in Architecture 26L**  
An introduction to the emerging field of research in history and theory concerning the role of architecture, urban design and allied design areas in the relationship between western and non-western nations during and after the period of colonialism.
- ARC234HI Architecture & Cultural Difference 26L**  
An introduction to contemporary issues in architecture pertaining to cultural difference, the politics of cultural identity, and possible structures and strategies for heterogeneity.
- ARC235HI Architectural Criticism 26L**  
An introductory course in architectural criticism that reviews the writings of major critics, the history of criticism in architecture and the use of alternative critical perspectives.
- ARC236HI Design and Cultural Transformation 26L**  
A survey of the social, economic, technological and cultural factors that have been instrumental in transforming material culture since the Industrial Revolution.
- ARC237HI Topics in the History and Theory of Landscape Design 26L**  
An introduction to the history and theory of urban landscape design.
- ARC238HI Topics in Urban Design History and Theory 26L**  
An introduction to projects and practices, theories and issues in contemporary urban design considered from a historical perspective and in the context of changing forces and paradigms or urbanization, technology, ecology and culture.
- ARC239HI Introduction to Architectural Theory 26L**  
An introduction to the history and current state of architectural theory.
- ARC313HI Architectural Design II 39P**  
A second introduction to architectural design conducted in a studio setting using a series of design projects that develop students' understanding of and skills with fundamental aspects of designing buildings and their environments.  
Prerequisite:ARC213HI; Enrolment in the Specialist program/  
Major program with Concentration in Architectural Design  
Co-requisite:ARC321HI
- ARC314HI Architectural Design III 39P**  
A third introduction to architectural design conducted in a studio setting using a series of design projects that develop students' understanding of and skills with fundamental aspects of designing buildings and their environments.  
Prerequisite:ARC313HI; Enrolment in the Specialist program/  
Major program with Concentration in Architectural Design
- ARC321HI Architectural Representation II 39P**  
An introduction to the history, theory and present state of building technology in the context of architectural design.  
Prerequisite:ARC221HI; Enrolment in the Specialist program/  
Major program with Concentration in Architectural Design  
Co-requisite:ARC313HI
- ARC331Y0 Studies in International Architecture 52L**  
For students in the International Summer Program.  
Documentation and analysis of architecture and urbanism in the city where the programme is based. Topics may include building types, urban morphology and development, public spaces, urban precincts, and ways of life supported by them. Cities may vary each year.  
Prerequisite:One half course in architectural history/theory
- ARC341HI Building Technology-Ecology I 26L**  
An introduction to building technology considered historically, in its relation to design theory, and its relation to the history and theory of technology.  
Prerequisite:ARC231HI; Enrolment in the Specialist program/  
Major program with Concentration in Architectural Design
- ARC342HI Building Technology-Ecology II 26L**  
A topic-based course in the history and theory of building science and structures.  
Prerequisite:ARC231HI; Enrolment in the Specialist program/  
Major program with Concentration in Architectural Design
- ARC398H0/ Independent Experiential Study Project 399Y0**  
An instructor-supervised group project in an off-campus setting. See page 47 for details.
- ARC413HI Architectural Design IV 39P**  
A fourth introduction to architectural design conducted in a studio setting using a series of design projects that develop students' understanding of and skills with fundamental aspects of designing buildings and their environments.  
Prerequisite:ARC314HI;ARC Specialist
- ARC414HI Introduction to Graphic Design 26L**  
An introduction to modern and contemporary graphic design, using a combination of lectures and workshops to trace the history of graphic design and examine applications in publications, presentations and architectural graphics.  
Prerequisite:ARC314HI;ARC Specialist
- ARC415HI Introduction to Furniture Design 26L**  
Comprised of lectures and workshop projects, this course is a detailed exploration of the history, theory and practice of modern and contemporary furniture design.  
Prerequisite:ARC314HI;ARC Specialist
- ARC416HI Introduction to Design for Performance & Media Arts 26L**  
An introduction to the theory and present state of set, stage, and environmental design for film, television, and performance.  
Prerequisite:ARC314HI;ARC Specialist

**ARC417HI Word Image and Form 26L**

A course that examines selected sculptural, architectural and analytical projects that have combined text, image and three-dimensional form. Assignments will include studio based projects.

Prerequisite: ARC314HI; ARC Specialist

**ARC431HI Historical Perspectives on Topics in Architecture 26L**

An introduction to selected projects, writings and issues in contemporary world architecture considered from an historical perspective and in the context of changing technologies, ecologies and cultural formations.

Prerequisite: ARC Specialist/Major program with Concentration in History, Theory, Criticism

**ARC432HI Historical Perspectives on Topics in Architecture II 26L**

A second introduction to selected projects, writings and issues in contemporary world architecture considered from an historical perspective and in the context of changing technologies, ecologies and cultural formations.

Prerequisite: ARC Specialist/Major program with Concentration in History, Theory, Criticism

**ARC433HI Urban Design History, Theory Criticism 26L**

An introduction to selected projects and practices, theories and issues in contemporary urban design considered from an historical perspective and in the context of changing forces and paradigms of urbanization, technology, ecology and culture.

Prerequisite: Enrolment in an ARC Specialist program/Major program with Concentration in Architectural Design/Major program with Concentration in History, Theory, Criticism

**ARC434HI Urban Design History, Theory Criticism II 26L**

A selective survey of the interrelationships between theories and practices of landscape, ecology, and urbanism from the mid-eighteenth century to the late twentieth.

Prerequisite: Enrolment in the ARC Specialist program/Major program with Concentration in History, Theory, Criticism/Major program with Concentration in Architectural Design

**ARC435HI History/Theory of Urban Landscape Architecture Design I 26L**

Study of landscape architecture elements in gardens, public open space, parks, and urban development. Fosters an understanding of landscape architecture considering examples from ancient to modern times. Places historical positions in landscape architecture within a more contemporary context. Landscape architectural design from the standpoint of: a work of art, a manifestation of cultural ideologies, and an act of humans in "nature".

Prerequisite: Enrolment in the ARC Specialist program/Major program with Concentration in History, Theory, Criticism /Major program with Concentration in Architectural Design

**ARC436HI History/Theory of Contemporary Urban Landscape Design II 26L**

The nature and origin of theories and principles in contemporary landscape architecture through lectures, seminar discussions and workshops. Design problems and the historic relationship to landscape issues; alternative design methods and

characteristics of design motivations, constraints and expression in landscape as a media of practice.

Prerequisite: Enrolment in the ARC Specialist program/Major program with Concentration in Architectural Design/Major program with Concentration in History, Theory, Criticism

**ARC437HI Housing Design: Theory & Practice 26L**

Urban housing forms and processes since 1800. Contemporary housing theories and policies in the context of world issues. Design principles, criteria and practice investigated through case studies.

Prerequisite: Enrolment in the ARC Specialist program/Major program with Concentration in History, Theory, Criticism/Major program with Concentration in Architectural Design

**ARC438HI Mies van der Rohe 26L**

An in depth examination of the work and thought of German-American architect Ludwig Mies van der Rohe.

Prerequisite: FAH 270HI/281HI/372HI, 272HI/282HI/373HI; Enrolment in the ARC Specialist program/Major program with Concentration in History, Theory, Criticism/Major program with Concentration in Architectural Design

**ARC441HI Architecture in its Technological-Ecological Context 26L**

An introduction to the technical conditions and ecological contexts of architectural production, including construction methods and materials, structural, mechanical and electrical systems, principles of building enclosure design and life safety provisions. This course introduces all areas of the technical curriculum that will be treated in subsequent courses.

Prerequisite: Enrolment in the ARC Specialist program

**ARC442HI Building Science, Materials and Construction I 26L**

Principles of building envelope design. Properties of building materials.

Prerequisite: Enrolment in the ARC Specialist program

# Art

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## Faculty

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### Professors Emeriti

H.A. Brooks, MA, Ph D, D Eng  
L.E. Eleen, MA, Ph D  
W. McA. Johnson, MA, MFA, Ph D, FRSC  
H.K. Lücke, Dr Phil  
D.S. Richardson, MA, Ph D (U)  
D. Rifat, DA  
J.W. Shaw, MAT, Ph D, D Hum Lett, FSA, FRSC (T)  
M.C. Shaw, MA, Ph D (S)  
B. Welsh-Orcharov, MA, Ph D  
F.E. Winter, Ph D

### Chair of the Department

M. Gotlieb, MA, M Phil, Ph D (T)

### Associate Chair - History of Art

C. Anderson, MA, Ph D

### Associate Chair - Visual Studies

L. Steele, Dr. of Fine Arts

### Professors

M.A. Cheetham, MA, Ph D  
D. Reid, MA (AGO)  
P.L. Sohm, MA, Ph D (U)  
L. Steele, Dr. of Fine Arts

### Associate Professors

C. Anderson, MA, PhD  
J. Caskey, MA, Ph D (UTM)  
M. Gotlieb, MA, M Phil, Ph D (T)  
L. Kaplan, MA, Ph D (UTM)  
E.M. Kavalier, MA, Ph D  
E.M.M. Legge, MA, Ph D (V)  
E. Levy, MA, Ph D (UTM)  
J. Massey  
A. Nagel, DEUG, MA, Ph D  
L. Safran, MA, Ph D  
S. Schelle  
K. Tomczak  
J.T. Wollesen, Dr. phil. habil. (V)

### Assistant Professors

A. S. Cohen MA, Ph D  
B. C. Ewald, MA, Dr. Phil  
E. Harney, MA, Ph D (UTSc)  
S. Lloyd MFA  
N. O'Laoghaire, MA, Ph D  
E. Pien, MFA  
J. Purtle, MA, M Phil, Ph D  
J. Ricco, AM, Ph D (UTM)  
P. Scrivano, MA, Ph D  
A. Syme, MA, Ph D (UTM)  
S. Wiitasalo

### Senior Lecturer

G. Hawken, BA  
D. Hlynsky (UTSc)  
T. Mars (UTSc)

### Special Lecturers

E. Leesti, MA, Ph D

### Royal Ontario Museum

D. Dewan, MA, Ph D  
A. Gehmacher, MA, Ph D  
A. Liivandi, MA, MLS  
A. Palmer, MA, Ph D  
S. Stock, MA, Ph D

Courses in the Department of Art are offered in two basic areas: lecture courses or seminars in the History of Fine Art (FAH) and practical studios or seminars in Visual Studies (VIS). Minor, Major and Specialist programs are offered in both the History of Art and Visual Studies.

The FAH curriculum covers the Bronze Age to the present in several global regions: the Mediterranean area, Europe and North America, and Asia. FAH101H1 is an overview of the major periods and monuments in the history of art and architecture, and FAH102H1 serves as a practical and critical introduction to the practice of art history and is an integral component of the curriculum; students are encouraged to take this class early in their progress toward an FAH degree. Half courses at the 200 level are more comprehensive surveys that thematically 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.

Visual Studies is the studio component of the Department of Art. Visual Studies Foundation courses are designed for Humanities and Social Science students who intend to seriously pursue Visual Studies upper level courses. There is a two-stage enrolment process. Humanities and Social Science students who have been accepted into a Visual Studies Program of Study may register for Visual Studies courses from mid-July until early August. First-year students and other upper-year students may apply for available spaces in late August.

Foundation courses: VIS 120H1, Visual Concepts, a lecture-based course that investigates a wide range of topics situated in Modernism and Post-Modernism. This course rigorously examines diverse art concepts in order to prepare students for interdisciplinary perspectives on art practice and critical theory in upper level courses. VIS 130H1, Visual Strategies, an H course taught throughout the Fall and Spring sessions, is an intensive interdisciplinary course that stresses the formulation and communication of visual ideas, primarily through a variety of media and must be taken in conjunction with VIS 120H1, Visual Concepts.

Visual Studies emphasizes a strong commitment to the social, cultural and theoretical issues embodied in contemporary art practice. Some Visual Studies courses are credits in other programs, for example, Women in Visual Art, and Performance in the Women's Studies program, Video for Artists in the Cinema Studies program and the Sexual Diversity program. The scope and variety of available courses will provide students with preparation for careers in teaching, museum and gallery work, conservation and complementary fields, though further professional training will normally be necessary.

Courses in the history of art (FAH) and in the practice of art (VIS) are useful to students in other departments or faculties; history, literature, music, and philosophy 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. Those with a special interest in the practice of architecture will find studio courses of value.

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 fine 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 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 a fine art history degree.

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 courses, please consult the Department of Art Website or contact the Summer Abroad Program at Woodsworth College, 119 St. George Street (416-978-8713).

The Fine Art Student Union (FASU) sponsors a variety of lectures and other activities for members of the departmental community.

Many courses in the Department, whether history or studio, are offered in alternate years only, or on a three-year cycle. The studio program requires no prerequisite at the secondary school level, but enrolment is limited in all studio courses. For more detailed information on courses and degree programs, consult the Department of Art web site and Undergraduate Handbook at [www.art.utoronto.ca](http://www.art.utoronto.ca). Counselling is available, by appointment, from the Undergraduate Coordinators.

Enquiries:

FAH: Ms. Ilse Wister, Undergraduate Secretary, Sidney Smith Hall, Room 6036 (416-978-7892)

VIS: George Hawken, Number 1, Spadina Crescent, Room 226 (416-946-8153)

## Art Programs

### History of Art (Arts program)

Students may enroll in the Major or Minor program in Fine Art History after completing at least four courses; there is no minimum GPA required. Students may enroll in the Specialist Program in Fine Art History after completing at least four courses, including four half FAH courses with a mark of at least 70% in each and must also have obtained a cumulative GPA of at least 2.5.

### Specialist program: (11 FCEs)

At least nine FAH FCE's, and two FCE's in one or more languages (including at least one German, French, or Italian), fulfilling the

following distribution requirements:

First Year:

FAH 102H1

Higher Years:

1. At least one half course in each of Groups A, B, C, and D (see below for definitions).
2. One additional half course in Group A and Group B.
3. No more than 3.5 FCEs may be taken at the 200-level.
4. 3.5 FCEs at the 300+level
5. 1 FCE at the 400 level.
6. No more than 1.5 FCEs at the 400-level will be counted toward fulfilling program requirements.
7. No more than 10 FCEs of FAH courses may be taken in total.

### Notes:

1. It is strongly recommended that students acquire a reading knowledge of German, French, or Italian by the end of the Third Year.
2. No more than 13 FAH and VIS FCEs may be taken in combination.
3. Approved courses in other programs may be substituted for up to two FAH FCEs. See Department website for details.

### Major program:

(6 FCEs)

At least six FAH FCEs fulfilling the following distribution requirements:

First Year:

FAH 102H1

Higher Years:

1. At least one half course in three of the four FAH Groups (see below for definitions).
2. Three FCEs at the 300+ level.
3. At least one half-course at the 400-level.
4. No more than 1.0 FCE at the 400-level will be counted toward fulfilling program requirements.
5. No more than 7.5 FCEs of FAH courses may be taken in total.

### Notes:

1. No more than 13 FAH and VIS FCEs may be taken in combination; of these, no more than 7.5 may be FAH FCEs.
2. Approved courses in other programs may be substituted for up to one FAH FCE. See Department website for details.

### Minor program:

(4 FCEs)

At least four FAH courses fulfilling the following distribution requirements:

1. FAH102H1
2. At least one half course in two of the four FAH Groups (see below for definitions)
3. At least one FCE at the 300-level.
4. No more than 5 FCEs of FAH courses may be taken in total

### FAH Course Groups

#### Group A: Ancient, Medieval

FAH courses numbered 200–229, 300–329, 400–429

#### Group B: Renaissance–Baroque, Modern–Contemporary–Canadian

FAH courses numbered 230–59, 330–59, 430–59

#### Group C: Asian

FAH courses numbered 260–69, 360–69, 460–69

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## Group D: History of Architecture

FAH courses numbered 270–79, 370–79, 470–79, plus FAH300, 309, 328, 362, 364, 404, 421

### Note:

1. Certain courses, including FAH101HI, do not satisfy the requirement for any group, but do count toward any FAH degree program.
2. Students who have already taken FAH100YI are encouraged, but not required, to take FAH102HI for the fulfillment of degree requirements.
3. Courses used to satisfy one group requirement, e.g., FAH300, cannot be counted toward another group requirement.

## Visual Studies Program (Arts program)

Enrolment in the VIS program is limited. To apply to the program, students must have completed at least four full course equivalents including VIS 120HI and VIS130HI; must have a cumulative GPA of at least 2.80; and must have at least a B in each of VIS 120HI and 130HI. Achievement of these minimum marks does not guarantee enrolment in the program.

### Specialist program:

(Ten full courses or their equivalent, including four 300/400 VIS half courses, two of which must be VIS401HI and VIS402HI, and two FAH full courses or their equivalent including FAH102HI and three other FAH half courses)

Requirements as follows: at least eight VIS and two FAH full courses or their equivalent including FAH102HI and three other FAH half courses

First Year:

VIS 120HI, FAH 102HI and VIS 130HI

Higher Years:

1. 14 half-courses in VIS
2. Thesis Text/Critique VIS401H; Thesis project VIS402H

Notes:

1. A full 400-series course is mandatory
2. Prerequisites for all courses beyond first year will be VIS 120HI and VIS130HI
3. No more than 13 FAS/VIS and FAH full courses may be taken in combination

### Major program:

(Six Visual Studies full courses or their equivalent, including at least two 300+ half courses)

First Year:

VIS 120HI and VIS 130HI

Higher Years:

Ten half-courses in VIS

Notes:

No more than 13 FAH and FAS/VIS courses may be taken in combination

### Minor program:

(No more than four Visual Studies full courses or their equivalent, including at least one full 300-level course or its equivalent.)

Note:

No more than 4 full courses may be taken in a Minor Subject POSt

1. VIS 120HI and VIS 130HI
2. Six half-courses in VIS

## Art History Courses

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See page 33 for Key to Course Descriptions

For Distribution Requirement purposes (see page 27), all FAH and FAS/VIS courses are classified as HUMANITIES courses.

### FAH101HI Monuments of Art History 26L

Consideration of the stylistic and contextual significance of representative monuments in the history of art.

Exclusion: FAH100Y/FAH105H5

### FAH102HI The Practice of Art History 26L, 13T

An investigation of the intellectual foundations of the discipline and an introduction to working methods in the study of art history.

### HUM199HI/YI First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

### Note

The recommended preparation for all 200 level courses is FAH102HI

### FAH206HI Prehistoric Aegean and East Mediterranean Art and Archaeology 26L, 11T

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.

Exclusion: FAH101Y5/203H5/204H5/205H1

### FAH207HI Greek and Roman Art and Archaeology 26L, 11T

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.

Exclusion: FAH101Y5/203H5/204H5/205H1

### FAH215HI Early Medieval Art and Architecture 26L, 11T

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: FAH102Y5/261HI/267H5/271H5

### FAH216HI Later Medieval Art and Architecture 26L, 11T

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: FAH102Y5/261HI/267H5/271H5

### FAH230HI Renaissance Art and Architecture (formerly FAH274HI) 26L, 11T

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: FAH200Y5/274H/274H51



**FAH231HI Baroque Art and Architecture 26L, IIT  
(formerly FAH279HI)**

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: FAH200Y5/279HI/279H5

**FAH245HI Modernism and anti-Modernism, c. 1750–1900 26L, IIT**

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: FAH280HI/287HI/287H5

**FAH 246HI The Rise and Fall of the Modernist Empire c. 1900 to the Present 26L, IIT**

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: FAH288HI/288H5/289HI/289H5

**FAH248HI Canadian Painting and Sculpture (formerly FAH286HI) 26L, IIT**

An introductory survey of the history of painting and sculpture in Canada from the 17th to the 20th century.  
Exclusion: FAH286HI

**FAH260HI The Artistic Landscape of East Asia (formerly FAH290HI) 26L, IIT**

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: FAH290HI

**FAH262HI Art and Visual Experience in Modern and Contemporary East Asia 26L, IIT**

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.

**FAH270HI Architecture: Rituals and Monuments 26L, IIT**

A survey of architecture from pre-history to the start of modernism, with attention given to the ways in which architecture shapes human experience.

**FAH272HI Modern Architecture from 1750 to the Present 26L, IIT**

An introduction to the buildings, issues and ideas from Neoclassicism to the present.  
Exclusion: FAH282HI

**FAH299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**Note**

In addition to the prerequisites listed below, enrolment is also possible for each course with permission of instructor.

**FAH300HI Archaeology of the Greek World: Cities and Sanctuaries 26L**

An investigation of the major archaeological sites and landscapes of the ancient Greek world, c.750-100BC.  
Prerequisite: FAH205HI/207HI

**FAH303HI Emergence of Greek Civilisation 26L**

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: FAH205HI/FAH207HI

**FAH304HI Minoan and Mycenaean Art and Archaeology 26L**

An investigation of the palace civilizations of Minoan Crete and Mycenaean Greece in the second millennium BC; their development, art, architecture, foreign connections, religion, and collapse, and role in the foundations of Classical Greece.  
Prerequisite: FAH205HI/206HI

**FAH305HI Art and Archaeology of the Roman Empire 26L**

The art, archaeology and architecture of the Roman empire outside Rome.  
Prerequisite: FAH205HI/207HI  
Exclusion: FAH302HI

**FAH309HI City of Rome 26L**

The art, architecture and archaeology of the city of Rome to AD476.  
Prerequisite: FAH205HI/207HI  
Exclusion: FAH302HI

**FAH310HI Looking at Greek Vases 26L**

Approaches to and investigations of the extraordinary wealth of imagery on Greek vases from the 8th to 4th centuries BC and the evidence these provide for accessing ancient society in the Greek world.  
Prerequisite: FAH205HI/207HI

**FAH311HI Understanding Greek Sculpture 26L**

Examination of the contexts in which Greek statuary was made, displayed and viewed, and its cultural significance.  
Prerequisite: FAH205HI/207HI

**FAH312HI Art of the Hellenistic Age (formerly FAH317HI) 26L**

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: FAH205HI/207HI  
Exclusion: FAH317HI

**FAH313HI Greek Myth in Ancient Art 26L**

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.

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- FAH316HI Accessing the Sacred 26L**  
Pilgrimage, relics, and icons are among the vehicles for gaining access to God and the saints in the Middle Ages that are examined in this course.  
Prerequisite: FAH215HI/216HI/261HI/343H5
- FAH318HI Monastic Art and Architecture 26L**  
An examination of the role played by monks and nuns in the creation and use of art and architecture in the Middle Ages.  
Prerequisite: FAH215HI/216HI/261HI/454H5
- FAH319HI Illuminated Manuscripts 26L**  
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: FAH215HI/216HI/261HI  
Recommended Preparation: SMC358H
- VIS321HI Artists' Multiples 13L, 26P**  
Production of artists' multiples in various media is augmented with gallery and archive visits, screenings and artist talks. Historical and contemporary technologies for reproduction are examined.  
Prerequisite: VIS120HI, VIS130HI and one VIS 200-level course
- FAH325HI Church Decoration 26L**  
The church was the primary locus of artistic elaboration in the Middle Ages. This course explores the wall paintings, mosaics, sculptures, textiles, and stained glass programs used to decorate churches throughout the medieval period.  
Prerequisite: FAH215HI/216HI/261HI
- FAH326HI Art and Liturgy 26L**  
Religious practices in the Middle Ages were expressed and enhanced with a variety of objects often made of precious materials. This course examines the forms and functions of these sacred implements.  
Prerequisite: FAH215HI/216HI/261HI
- FAH327HI Secular Art and Architecture of the Middle Ages 26L**  
A consideration of art and architecture made for the court, the aristocracy, and other patrons outside the realm of the Christian church.  
Prerequisite: FAH215HI/216HI/261HI/337H5
- FAH328HI Gothic Cathedral (formerly FAH369HI) 26L**  
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: FAH215HI/216HI/261HI/351H5  
Exclusion: FAH369HI
- FAH330HI German Art and Architecture in the Age of Dürer (formerly FAH306HI) 26L**  
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: FAH230HI/231HI/274HI/279HI  
Exclusion: FAH306HI
- FAH331HI Netherlandish Renaissance Art and Culture (formerly FAH307HI) 26L**  
Painting, sculpture and architecture of the Netherlands in the sixteenth century with reference to the arts in Italy, France, Germany and Spain. Consideration of Netherlandish art in the context of literature, religion, urban expansion, political and economic developments; and as a system of communication. Particular attention devoted to Hieronymus Bosch, Pieter Bruegel, the rise of secular art.  
Prerequisite: FAH230HI/231HI/274HI/279HI  
Exclusion: FAH307HI
- FAH333HI The Altarpiece in Italy ca. 1400 - ca. 1600 26L**  
Focusing on developments in Venice, Florence and Rome during the Renaissance, this course examines altarpieces both as aesthetic objects and as expressions of the social, religious and political structures for which they were made.  
Prerequisite: FAH230HI/231HI/274HI/279HI
- FAH335HI The Art of Love in the Renaissance 26L**  
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: FAH230HI/231HI/274HI/279HI
- FAH339HI Art and Politics in Italy, 1480-1527 26L**  
A wide array of works in architecture, painting and sculpture studied in light of some of the most important political and social developments of the period: the French invasion of Italy, the rise of Savonarola and the fate of the Medici, the imperialization of the papacy under Julius II, and the Sack of Rome.  
Prerequisite: FAH230HI/231HI/274HI/279HI
- FAH340HI 17th-Century Art of the Netherlands (formerly FAH308HI) 26L**  
Concentration on the major masters 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 historical contexts.  
Prerequisite: FAH230HI/231HI/274HI/279HI  
Exclusion: FAH308HI
- FAH341HI Venetian Renaissance Art and Architecture 26L**  
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: FAH230HI/231HI/274HI/279HI
- FAH342HI Mannerism 26L**  
The symptoms and causes of Mannerism, ca. 1520 to ca. 1600, as seen through shifting historical perspectives. The contested status of Mannerism opens questions about the relation of style and content, the uses of quotation and formulae in art, and the rhetorical functions of beauty in religious art.  
Prerequisite: FAH230HI/231HI/274HI/279HI
- FAH344HI Rembrandt, Rubens and their Age (formerly FAH277HI) 26L**  
Introduction to the art of Rembrandt and Rubens in the context of Netherlandish painting of the seventeenth century. Lectures will treat the approaches of these two artists to biblical and

mythological subjects, landscape, portraiture, and their involvement in contemporary politics.

Exclusion: FAH277HI

Recommended preparation: FAH101H/102H

**FAH345HI The Romantic Movement in French Art (formerly FAH383HI) 26L**

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: FAH245HI/246HI/287HI

Exclusion: FAH383HI

**FAH346HI Impressionism (formerly FAH378HI) 26L**

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: FAH245HI/246HI/287HI

Exclusion: FAH378HI/378H5

**FAH347HI Cubism and Related Movements (formerly FAH384HI) 26L**

An investigation of the birth and development of Cubism, Futurism and Orphism in Europe and North America.

Prerequisite: FAH245HI/246HI/287HI/288HI

Exclusion: FAH384HI

**FAH348HI The Dada and Surrealist Tradition (formerly FAH385HI) 26L**

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: FAH245HI/246HI/288HI/289HI

Exclusion: FAH385HI/447H5

**FAH349HI Abstraction in Twentieth-Century Art (formerly FAH387HI) 26L**

The origins, development, and critical issues pertaining to abstract or non-figurative modes of art as manifested in painting, sculpture and other selected media in the 20th century. Movements include European abstract art before World War II as well as post-war developments.

Prerequisite: FAH102HI/245HI/246HI/288HI/289HI/385HI

Exclusion: FAH387HI

**FAH350HI Minimalism (formerly FAH389HI) 26L**

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: FAH102HI/245HI/246HI/288HI/289HI

Exclusion: FAH389HI

**FAH351HI Theory in Art History (formerly FAH388HI) 26L**

The role of Theory in the art of the modern period. The texts studied include works by the principal theoreticians and critics from the late 18th century to the present.

Prerequisite: FAH102HI/245HI/246HI/287HI/288HI/289HI

Exclusion: FAH388HI/388H5

**FAH354HI Recent and Contemporary Canadian Art (formerly FAH386HI) 26L**

Survey 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: FAH102HI/245HI/246HI/248HI/286HI/288HI/289HI

Exclusion: FAH386HI

**FAH361HI Art and Ritual in East Asia 26L**

Bronze vessels, tomb furnishings, and Buddhist images are among the images and objects explicitly manufactured for ritual use to be examined in this course.

Prerequisite: any 200 level FAH half course/any 100 or 200 level EAS Society-Culture course

Recommended preparation: FAH260HI

**FAH362HI Landscape and the Built Environment in East Asia 26L**

In East Asia the idea of landscape significantly shaped artistic production. This course explores human representation of, and architectonic intervention in the landscape through media that include tombs, Buddhist caves, painting, gardening, and architecture.

Prerequisite: any 200 level FAH half course/any 100 or 200 level EAS Society-Culture course

Recommended preparation: FAH260HI

**FAH363HI The Mechanics of the Image in East Asia 26L**

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: any 200 level FAH half course/any 100 or 200 level EAS Society-Culture course

Recommended preparation: FAH260HI

**FAH364HI Art and Architecture in South Asia 26L**

An overview of major monuments and themes in the art and architecture of South Asia (India, Pakistan, Sri Lanka, Bangladesh, Nepal, Bhutan, Tibet, Afghanistan), from the Indus Valley Civilization (3500 BCE) to the present. Includes first-hand study of objects in ROM collection.

Prerequisite: any 200 level FAH half course/ any course in Asian history, culture, or religion

Recommended: FAH260HI

**FAH365HI Colonialism, Nationalism and Modernity in South Asian Art 26L**

Intersections of politics and the production of visual culture during the 19th and early 20th century are examined in this course, from picturesque paintings by European visitors to early Bollywood cinema. Includes first-hand study of objects in ROM collection.

Prerequisite: FAH260HI/262HI/ 364HI

**FAH368HI Encounters: Art Within and Beyond East Asia 26L**

Artistic production moved fluidly within and beyond East Asia. To understand the artistic world of East Asia, this course probes phenomena that may include Buddhist art, art of conquest dynasties, Chinoiserie, art of the Pacific Rim, film, and contemporary art.

Prerequisite: any 200 level FAH half course/any 100 or 200 level EAS Society-Culture course

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Recommended preparation: FAH260HI

**FAH370HI European Renaissance 26L**  
**Architecture**  
**(formerly FAH324HI)**

Architecture and architectural theory ca. 1400 – ca. 1600.

Prerequisite: FAH270HI/278HI

Exclusion: FAH324HI

**FAH371HI Architecture and Urbanism in 26L**  
**Baroque Europe**  
**(formerly FAH355HI)**

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: FAH270HI/278HI/281HI

Exclusion: FAH355HI

**FAH372HI Architecture in the Age of 26L**  
**Historicism ca. 1750–ca. 1900**  
**(formerly FAH281HI)**

Major monuments and key figures in architecture and urbanism in Europe and North America from the Enlightenment to the birth of Modernism.

Prerequisite: FAH270HI/272HI/278HI

Exclusion: FAH281HI

**FAH373HI Modern Architecture Since 1890 26L**  
**(formerly FAH282HI)**

Major monuments and key figures in architecture and urbanism from Industrialization to the mid-twentieth century. Topics may include architectural theory, colonialism, and new technologies.

Prerequisite: FAH270HI/272HI/278HI/281HI

Exclusion: FAH282HI

**FAH374HI Consequences of Modernism: 26L**  
**Architecture after 1945**  
**(formerly FAH382HI)**

An examination of architectural theory and practice from the end of Modernism to the present.

Prerequisite: FAH270HI/272HI/278HI/281HI/282HI

**FAH375HI American Architecture: A Survey 26L**

Vernacular traditions of the colonial period, patterns of settlement and urbanization, the emergence of the architect and development of high styles of architecture throughout representative parts of what is now the United States, from ca. 1650 to ca. 1925.

Prerequisite: FAH270HI/272HI

**FAH376HI Canadian Architecture: A Survey 26L**

Vernacular traditions in building, patterns of settlement and urbanization, and development of high styles in architecture in New France, British North America, and what is now Canada, from ca. 1650 to ca. 1925. Material economy, cultural identity, local character, regional expression, national symbolism and international influences.

Prerequisite: FAH270HI/272HI

**FAH380HI/YI Special Topics in Art History 26L/52L**  
**(formerly FAH395HI)**

The study of various aesthetic, cultural, social, political, and theoretical aspects of Western art and photography across the centuries.

Prerequisite: Two FAH half courses or permission of instructor

Exclusion: FAH395HI

**FAH381HI Problems in Jewish Art 26L**  
**(formerly 329HI)**

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.

Recommended preparation: FAH102HI, a 200 level FAH half course

Exclusion: FAH329HI

**FAH390HI/YO Art and Power 26L/52L**

Investigates the intersection of art and power in history and in our own time. Explores how city plans, landscapes, buildings, paintings, sculpture, costumes, advertisements, monuments, parades, and other art forms create and expand personal, national, institutional, political, sexual, spiritual, and other kinds of power. May be offered at St. George or abroad through Woodsworth College.

Recommended preparation: FAH100Y/101HI/102HI

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## Studies Abroad

Studying original works of art and architecture is a key component in the history of art. The Department of Art offers, through Woodsworth College, courses abroad on a regular basis and encourages students to consider enrolling in these. Courses are offered on a rotating basis; please consult Woodsworth College Summer Abroad website, [www.summerabroad.utoronto.ca](http://www.summerabroad.utoronto.ca), the department's website, and the registration handbook for information on specific courses offered in any given year.

**FAH391Y0 Studies Abroad in Ancient Art and 26L**  
**Architecture**

Prerequisite: one FAH half course in ancient art, architecture, and archaeology/permission of instructor

**FAH392Y0 Studies Abroad in Medieval Art and 26L**  
**Architecture**

Prerequisite: one FAH half course in medieval art and architecture/permission of instructor

**FAH393Y0 Studies Abroad in Renaissance and 26L**  
**Baroque Art and Architecture**

Prerequisite: one FAH half course in Renaissance or Baroque art and architecture/permission of instructor

**FAH394Y0 Studies Abroad in Modern and 26L**  
**Contemporary Art and Architecture**

Prerequisite: one FAH half course in Modern or Contemporary art and architecture/permission of instructor

**FAH395Y0 Studies Abroad in Canadian Art and 26L**  
**Architecture**

Prerequisite: one FAH half course in Canadian art and architecture/permission of instructor

**FAH396Y0 Studies Abroad in Asian Art and 26L**  
**Architecture**

Prerequisite: one FAH half course in Asian art and architecture/permission of instructor

**FAH397Y0 Studies Abroad in Architectural History 26L**

Prerequisite: one FAH half course in architectural history/permission of instructor

**FAH398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**Note**

Enrolment is limited in 400 level courses. In addition to the prerequisites listed below, enrolment is also possible for each course with permission of instructor. For additional information, refer to the annual registration handbook and timetable.

**FAH401HI Aegean Wall Paintings 26S**

Investigation of the wall-paintings of the Minoan, Cycladic and Mycenaean worlds in the second millennium BC: context, associations, viewing and historical interpretations.

Prerequisite: FAH205HI/206HI

Recommended preparation: FAH300HI/303HI/304HI/

**FAH403HI Art and Archaeology of Ancient Cyprus (formerly FAH423HI) 26S**

Examination of the art, archaeology and architecture of Cyprus from its first colonization c.10,000BC through to the 7th century AD.

Prerequisite: FAH205HI/206HI

Recommended preparation: FAH303HI/304HI/

Exclusion: FAH423HI

**FAH404HI Greek Architecture (formerly FAH419HI) 26S**

Architecture and its development in Archaic through Classical Greece, looking at the major monuments of Greece and the wider Greek world.

Prerequisite: FAH206HI/207HI

Recommended preparation: FAH300HI/

Exclusion: FAH419HI

**FAH406HI Studies in Greek Painting and Sculpture 26S**

An examination of selected works in sculpture and/or painting from the Archaic, Classical, and Hellenistic periods through a consideration of iconography, style, technique, distribution, and use.

Prerequisite: FAH206HI/207HI

Recommended preparation: FAH310HI/311HI/312HI

**FAH407HI Studies in Roman Painting and Sculpture 26S**

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: FAH206HI/207HI

Recommended preparation: FAH305HI/309HI/312HI

**FAH418HI Studies in Early Christian and Byzantine Art and Architecture 26S**

In-depth examination of key monuments and issues in art and architecture from the Early Christian (1st-5th centuries) or Byzantine (6th-15th centuries) periods.

Prerequisite: FAH215HI/216HI/261HI

Recommended preparation: FAH316HI/321HI

**FAH420HI Studies in Western Medieval Art and Architecture 26S**

In-depth examination of monuments and issues in the art and architecture of Western Europe from the sixth to the fifteenth century.

Prerequisite: FAH215HI/216HI/261HI

**FAH421HI Studies in Medieval Cities 26S**

A focused examination of urbanism, art and architecture of a specific medieval city, such as Jerusalem, Rome, Constantinople, or Paris.

Prerequisite: FAH215HI/216HI/261HI

Recommended preparation: FAH325Y0/FAH327HI/328HI

**FAH424HI Studies in Medieval Book Illumination 26S**

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: FAH215HI/216HI/261HI

Recommended preparation: FAH319HI/SMC358H

**FAH425HI Studies in Medieval Art and Gender 26S**

An investigation of the role played by gender in the creation and use of art and architecture in the Middle Ages.

Prerequisite: FAH215HI/216HI/261HI

Exclusion: FAH435H5

**FAH426HI Medieval Art in Local Collections 26S**

First hand examination of objects of medieval art from local Toronto collections.

Prerequisite: FAH215HI/216HI/261HI

**FAH430HI Pieter Bruegel (formerly FAH428HI) 26S**

The study of Pieter Bruegel's works in the context of Netherlandish culture. Emphasis on secular works.

Prerequisite: FAH307HI/331HI; permission of instructor

Exclusion: FAH428HI

Recommended preparation: Reading knowledge of French or German

**FAH432HI Caravaggio 26S**

The life and work of Caravaggio in the context of 17th-century Roman and Neapolitan art theory and patronage, with a particular emphasis on the contentious issue of realism.

Prerequisite: Permission of instructor

Recommended preparation: FAH230HI/231HI/274HI/279HI/341HI/342HI

**FAH434HI Art Before and After Modernity (formerly FAH435HI) 26S**

The convulsive redefinitions of art during the sixteenth and twentieth centuries serve as an indirect introduction to modern aesthetics and a basis for reflection on the future of art. Classes in seminar room and in art galleries. Readings by Hans Belting, T. J. Clark, Arthur Danto, Rosalind Krauss.

Prerequisite: At least three 300-level half courses in FAH

Exclusion: FAH435HI

**FAH438HI Rereading the "High Renaissance" in Italy 26S**

A careful reading of some classic accounts of the "High Renaissance", from Vasari and Reynolds to Wolfflin and Freedberg, serves as the basis for an analysis of developments within various genres and types of art production in the period: drawings, altarpieces, portraits, cabinet pictures and sculpture.

Prerequisite: At least one 300-level half course in Renaissance art

# Art

- FAH439HI Art and Reform in the Renaissance 26S**  
 Consideration of European art ca. 1500 in the context of the reform debates that mark the period. Students study original works of art in the AGO and read period texts by, among others, Girolamo Savonarola, Desiderius Erasmus, and Martin Luther.  
 Prerequisite: At least one 300-level half course in Renaissance art  
 Exclusion: FAH441H5
- FAH440HI Dutch Genre Painting of the 17th Century 26S**  
 Study of so-called "scenes of everyday life." Special attention given to cultural context and problems of interpretation, the work of Jan Vermeer, and the reputation of this art in following centuries.  
 Prerequisite: FAH307HI/308HI/331HI/340HI/428HI; permission of instructor  
 Recommended preparation: Reading knowledge of French or German
- FAH443HI Visual Modes of Communication 26S**  
 A history of gesture and physiognomy in Italian Renaissance and Baroque art and literature as narrative and rhetorical techniques.  
 Prerequisite: FAH230HI/231HI/274HI/279HI/333HI/341HI/342HI
- FAH445HI The Paris Salon and French Art of the Nineteenth Century 26S**  
 French painting, sculpture, and criticism of the mid-19th century, with particular to the key role played by the Paris Salon: its emergence and decline as a public space for exhibitions, its impact on the shape of artistic careers, and the relation between the Salon and artistic practices. Attention both to Modernist artists, such as Manet, and to their opponents. Students will engage in critical readings of primary and secondary texts (Baudelaire, T. J. Clark, Michael Fried), as well as conduct original research on important Salon paintings and sculptures. Assignments will include a book review, an annotated bibliography, and a research paper.  
 Prerequisite: FAH245HI/280HI/287HI  
 Recommended preparation: FAH346HI/345HI/378HI/383HI.  
 Reading knowledge of French strongly recommended.
- FAH446HI Realism 26S**  
 An examination of mid-19th century French Realism with emphasis on Courbet, Millet, the Barbizon School, Daumier and Manet.  
 Prerequisite: FAH245HI/287HI  
 Exclusion: FAH315H5  
 Recommended preparation: Reading knowledge of French
- FAH447HI 19th-Century Landscape Painting 26S**  
 Investigation of English, French, German and Swiss landscape painting from the birth of the Romantic movement to Post-Impressionism.  
 Prerequisite: FAH245HI/287HI  
 Recommended preparation: Reading knowledge of French or German
- FAH448HI International Art Since 1940 (formerly FAH402HI) 26S**  
 Developments in the mainstream of Western painting and sculpture since World War II with special emphasis upon interrelations between Europe and North America.  
 Prerequisite: FAH246HI/288HI/289HI/348HI/350HI/351HI/385HI/388HI/389HI  
 Exclusion: FAH402HI
- FAH449HI Contemporary Art Movements (formerly FAH411HI) 26S**  
 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: FAH246HI/289HI  
 Exclusion: FAH411HI
- FAH457HI Issues in Canadian Art, ca. 1900–1940 (formerly FAH415HI) 26S**  
 Focused, thematic examinations of the visual arts in Canada in the first half of the twentieth century.  
 Prerequisite: FAH246HI/286HI/352HI/386HI  
 Exclusion: FAH415HI
- FAH458HI Issues in Recent Canadian Art (formerly FAH416HI) 26S**  
 Focused, thematic examinations of the visual arts in Canada from 1940 to the present.  
 Prerequisite: FAH246HI/286HI/352HI/386HI  
 Exclusion: FAH416HI
- FAH461HI East Asian Art as a Cultural System 26S**  
 Methodologically-focused seminar engaged with recovering and articulating in Western terms indigenous ways of seeing and thinking about East Asian art.  
 Prerequisite: FAH260HI/262HI/290HI/361HI/362HI/363HI/364HI/365HI/368HI/EAS211YO/227Y/233HI/237Y/305Y/331Y/418HI
- FAH462HI Outside East Asian Art 26S**  
 Methodologically- and historiographically-focused seminar that attends to the contingencies and ruptures of approaching East Asian art through Western art historical methods.  
 Prerequisite: FAH260HI/262HI/290HI/361HI/362HI/363HI/364HI/365HI/368HI/EAS211YO/227Y/233HI/237Y/305Y/331Y/418HI
- FAH463HI Materiality, Objecthood, Connoisseurship and Collecting in the Arts of East Asia 26S**  
 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: FAH260HI/262HI/290HI/361HI/362HI/363HI/364HI/365HI/368HI/EAS211YO/227Y/233HI/237Y/305Y/331Y
- FAH464HI Transregional East Asian Art 26S**  
 In-depth examination of the play of East Asian Art within and beyond East Asia.  
 Prerequisite: FAH260HI/262HI/290HI/361HI/362HI/363HI/364HI/365HI/368HI/EAS211YO/227Y/233HI/237Y/305Y/331Y
- FAH466HI Contemporary South Asian Art 26S**  
 Examination of current issues in and methods of studying contemporary art from South Asia and the South Asian Diaspora. Includes first-hand study of objects in ROM collection, exhibit and studio visits, and possible guest lectures.  
 Prerequisite: FAH262HI/364HI/365HI

**FAH470HI Studies in Renaissance and Baroque Architecture (formerly FAH450HI) 26S**

An in-depth study of themes and problems in architecture in Renaissance and Baroque Europe.  
Prerequisite: FAH324HI/355HI/370HI  
Exclusion: FAH450HI

**FAH471HI Major Figures of Twentieth-Century Architecture 26S**

A close study of the major architects, designers and theorists of 20th-century architecture  
Prerequisite: FAH372HI/373HI/374HI/375HI/376HI

**FAH477HI Toronto Architecture (formerly FAH377HI) 26S**

A first-hand study of the architecture and urban planning of Toronto.  
Prerequisite: FAH372HI/373HI/374HI/375HI/376HI  
Exclusion: FAH377HI

**FAH480HI University Art Centre Exhibition Course (formerly FAH454HI) 26S**

Students work together designing and installing an exhibition of works of art, normally drawn from the collections of the University Art Centre. The course meets every two weeks at the University Art Centre over the entire academic year.  
Prerequisite: 8 FAH half courses; permission of instructor (application in department)  
Exclusion: FAH451HI/454HI/455HI

**FAH481HI Internship at the University Art Centre (formerly FAH455HI) 26S**

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. The course extends over the entire academic year.  
Prerequisite: 8 FAH half courses; permission of instructor (application in department)  
Exclusion: FAH454HI/455HI

**FAH482HI Master works of Art at the Art Gallery of Ontario 26S**

This course develops art historical, connoisseurship, and analytical skills based on works of art in the permanent collection of the Art Gallery of Ontario. The course is designed to expose students to key issues in visual analysis, art history, and art historical interpretation arising from the direct study and investigation of art objects. The course will be located at the Art Gallery of Ontario. Its focus may shift around different aspects of the collections (works on paper, modern and contemporary art, the Thompson Collection, and other collections, depending availability and access.

**FAH483HI Introduction to Conservation: Materials, Deterioration, and Preservation in Art and Material Culture (formerly FAH453HI) 26S**

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: 8 FAH half courses; permission of instructor.  
Exclusion: FAH453HI

**FAH484HI Fashion, & Textiles: Culture & Consumption (formerly FAH459HI) 26S**

This course examines the history, meaning and consumption of Western European textiles (Late Antique - 18th century) and fashionable dress (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: 8 FAH half courses; permission of instructor.  
Exclusion: FAH459HI

**FAH485HI Collecting Canada: Art in the Royal Ontario Museum (formerly FAH456HI) 26S**

Approach to and hands-on study of the mostly pre-1900 Canadian picture collection in the Royal Ontario Museum. Topics include past collecting patterns, collecting "Canadiana" in the twentieth century, and how such collections function within multi-disciplinary museums.  
Prerequisite: FAH248HI/286HI, one FAH FCE at the 300-level; permission of instructor  
Recommended preparation: FAH352HI/386HI  
Exclusion: FAH456HI

**FAH486HI Case Studies at the Royal Ontario Museum 26S**

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: 8 FAH half courses; permission of instructor.

**FAH489HI Topics in the History of Art and Architecture 26S**

Focused examination of special topics in any period of Mediterranean, European, North American, or Asian art and architecture.  
Prerequisite: 8 FAH half courses; permission of instructor

**Independent Studies**

Students may request to undertake supervised research projects culminating in a major research paper. Such projects are often the continuation of work in a previous FAH course, usually at the 400 level. Not more than one course in Independent Studies may be taken in a single year. Students must obtain in advance the written consent of a faculty supervisor(s) and the Undergraduate Secretary before registering.

Prerequisite for all independent studies: five FAH courses; permission of instructor

**FAH491HI/YI Independent Studies in Ancient Art and Architecture**

**FAH492HI/YI Independent Studies in Medieval Art and Architecture**

**FAH493HI/YI Independent Studies in Renaissance and Baroque Art and Architecture**

**FAH494HI/YI Independent Studies in Modern and Contemporary Art and Architecture**

**FAH495HI/YI Independent Studies in Canadian Art and Architecture**

**FAH496HI/YI Independent Studies in Asian Art and Architecture**

**FAH497HI/YI Independent Studies in Architectural History**

## Visual Studies Courses

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### Note 1.

Visual Studies has replaced the previous FAS program. Students in the FAS program requiring credits should select courses from the VIS program to complete their FAS program requirements.

### Note 2.

VIS and FAH courses except VIS 120HI and VIS 130HI give priority to students enrolled in our Specialist, Major and Minor programs. Students must follow procedures as outlined in the *Registration Handbook and Timetable* and instructions in the Department of Art web site.

### Note 3.

Exclusions have been included for many FAS studio courses at the University of Toronto Mississauga. St. George students wishing to take any remaining FAS courses there will need the written permission of the Undergraduate Coordinator for VIS.

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**VIS120HI Visual Concepts 26L, 13T**  
Visual concepts introduces students to a wide range of topics situated in Modernism and Post-modernism that inform current art practice and critical discourse. The course investigates post-1970 art practice through the diverse societal, cultural and political influences of post-modernism.

**VIS130HI Visual Strategies 52P, 13T**  
A studio based course that employs intensive and diverse investigation of drawing strategies that stress the formulation and communication of visual ideas. NOTE enrolment instructions in the *Registration Handbook and Timetable* for this course! A studio fee of \$25 is payable with tuition. Note: this is a half course taught over the entire academic year.  
Co-requisite: VIS120HI  
Exclusion: FAS 143HI

**VIS201HI Painting: Methods and Materials 39P**  
This is a hands-on course that deals with technical and theoretical issues of painting in the early 21st century. The act of painting and the relevance of painting are stressed through both historical and current issues. This course is very project oriented.  
Prerequisite: VIS120HI, 130HI  
Exclusion: FAS 145HI

**VIS202HI Video For Artists 39P**  
A studio course that introduces the history and contemporary practice of video art. In addition to hands-on instruction in digital production and post-production, the course includes seminars, readings and screenings. Students produce a number of short digital video projects and participate in group seminars and critiques.  
Prerequisite: VIS120HI, VIS130HI

**VIS203HI Time-Based Arts 13L, 26P**  
A studio course examining the particular properties of various time-based art forms, including audio and audio installation, video and video installation, interactive performance and other time-based media used by artists. Readings, gallery visits and screenings and slide presentations provide background to these art practices. Students produce projects responding to assignments.  
Prerequisite: VIS120HI, VIS130HI

**VIS204HI 3D Installation 13L, 26P**  
This course is designed to introduce students to the basic principles of working in 3 dimensions, using projects, slide lectures and writing. A studio fee of \$50.00 is payable with tuition.  
Prerequisite: VIS120HI, 130HI  
Exclusion: FAS146HI

**VIS205HI Drawing 39P**  
Studio-based projects explore drawing practice in the early 21st century. Materials and approaches both bear witness to continuity and respond to changing contemporary cultural issues. (A studio fee of \$15 is payable with tuition.)  
Prerequisite: VIS120HI, 130HI  
Exclusion: FAS 243HI

**VIS206HI Print Media One - Relief 39P  
(formerly VIS203HI)**  
Principles and practices of Relief Printmaking. Projects in single and multiple block edition production. (A studio fee of \$120 is payable with tuition.)  
Prerequisite: VIS120HI, 130HI  
Exclusion: FAS 232HI

**VIS207HI Print Media II - Intaglio 39P  
(formerly VIS303HI)**  
An introduction through studio projects to the principle forms of intaglio printmaking, including etching and collagraph. (A studio fee of \$120 is payable with tuition.)  
Prerequisites: VIS120HI, VIS130  
Exclusion: FAS 324HI

**VIS208HI Performance Art 13L, 26P**  
Practical and aesthetic concerns in the evolution of Performance against the backdrop of critical and historical perspectives. Students explore a range of Performance possibilities, alone and collaboratively to develop both intellectual and physical skills which will inform both their performance work and their view of art. Seminars focus on critical aspects of Performance.  
Prerequisite: VIS120HI, 130HI

**VIS209HI Women in Visual Art 13L, 26P**  
The emergence and incorporation of the feminist perspective in current art theory and practice form the basis of lectures, seminars, projects and essays that focus on language, photography and other mediums that signal the shift to a variety of strategies shaping art in the post-modern era.  
Prerequisite: VIS120HI, VIS130HI

**VIS211HI Works on Paper 13L, 26P  
(formerly VIS 205HI)**  
A studio based course which explores the potential of paper from drawing to object making, in the context of contemporary art practice.  
Prerequisite: VIS120HI, 130HI  
Exclusion: FAS143HI, FAS243HI

**VIS212HI Colour 13L, 26P**  
Colour may be claimed as the property of all: for most everyone sees, uses, and knows colour. Studying colour takes us into areas of humanities and sciences. This study, through lectures, projects and readings aims to develop a student's understanding and use of colour. (Studio fee of \$20.00 payable with tuition.)  
Prerequisite: VIS120HI, VIS130HI

**VIS217HI Photobased (Chemical) 13L, 26P**  
Photobased projects in which the fundamentals of optical-chemical-mechanical photographic processes and technologies are integrated with concepts in contemporary photobased practice.



(Studio fee of \$60.00 payable with tuition; student must have light metre and 35mm camera that allows full manual control.)

Prerequisite: VIS120HI, 130HI

Exclusion: FAS147HI

**VIS218HI Photobased (Digital) 13L, 26P**

Photobased projects in which the fundamentals of optical/digital photographic processes and technologies are integrated with concepts in contemporary photobased practice. (Studio fee of \$60.00 payable with tuition.)

Prerequisite: VIS120HI, 130HI

Exclusion: FAS147HI

**VIS220HI Painting and the Subject 39P**

Painting and the subject continue the exploration of formal and material issues introduced in Painting, Method and Materials. Representation and abstraction are investigated through the development of subject matter and themes drawn from personal, social and cultural sources.

Prerequisite: VIS120HI, 130HI, 201HI

**VIS301HI Painting: The Painted Edge 39P**

This studio based, project oriented course critically examines contemporary visual culture through painting. Projects are presented and discussed during regular class critiques. Lectures will take place throughout the course.

Prerequisite: VIS120HI, VIS130HI, VIS201HI

Exclusion: FAS245HI

**VIS302HI Video: Advanced Projects 39P**

Emphasis on pre-production, production and post-production of a video project. Students script, shoot and edit a tape through rough cut to fine cut. Class discussions focus on all stages of the work-in-progress. Strategies for distribution, exhibition and funding are examined. A studio fee of \$75.00 is payable with tuition

Prerequisite: VIS120HI, VIS130HI, VIS202HI

**VIS303HI Advanced Time-Based Arts 13L, 26P**

A studio course that continues the students' development in all areas of time-based art practice through seminars, readings and self-directed projects.

Prerequisite: VIS120HI, 130HI, VIS202HI/203HI

**VIS305HI Drawing and Painting 39P**

Time and place in drawing and painting. This course provides a discourse with which to continue the evolution of the students' work in drawing and painting.

Prerequisite: VIS120HI, VIS130HI, 201HI and one of VIS205HI/211HI

Exclusions: FAS243HI, FAS343HI, FAS345HI

**VIS306HI Site/Installation and 3-D Construction 13L, 26P**

An investigation into the history and practice of site/installation and 3 dimensional fabrication through slide lectures, projects and seminar discussions. Earth works, large scale public projects, and site specific installations will be explored.

Prerequisite: VIS120HI, 130HI, 204HI

Exclusion: FAS348HI

**VIS307HI Art and Context 13L, 26P**

Applying art to the borders of other disciplines or issues within the university community, students develop projects with the objective of opening spaces for discourse: art as a transgressive device.

Prerequisite: VIS120HI, 130HI and one VIS 200-level course.

**VIS309HI The Processed Image 13L, 26P**

Seminars and studio projects give the more advanced students the opportunity to address issues of transformation in Print technology. A \$120.00 studio fee is payable with tuition

Prerequisite: VIS120HI, VIS130HI, VIS203HI, 303HI, or VIS206HI, VIS207HI

Exclusion: FAS334HI

**VIS310HI Imaging the Political 13L, 26P**

Studio projects complemented by seminars and readings examine plastic, social and gender politics in contemporary imaging.

Prerequisite: VIS120HI, VIS130HI and one VIS 200-level course

**VIS311HI Independent Projects TBA**

Students propose and produce projects in media that are offered in Visual Studies. (A studio fee of \$50 in video, sculpture and printmaking only is payable with tuition.)

Prerequisite: Permission of instructor

**VIS312HI Collage 13L, 26P**

An investigation of collage through the 20th century. The evolution of collage as a means of expression will be explored in the form of studio projects and lectures.

Prerequisite: VIS120HI, 130HI and one VIS 200-level course

**VIS313HI The Body 13L, 26P**

Ideas about the body are challenged by developments in technology, culture and politics. This course studies the metamorphosis of gender, age and culture through projects, lectures and readings.

Prerequisites: VIS120HI, VIS130HI and one VIS 200-level course

**VIS318HI Integrated Photobased Explorations 13L, 26P**

Studio projects are based on issues and writing relevant to contemporary photobased practice; seminars and readings are integral. Students will work with both chemical and digital processes. (Studio fee of \$60.00 payable with tuition.)

Prerequisite: VIS (120HI, 130HI), 217HI/ 218HI

Exclusion: FAS347HI

**VIS319HI Defining Landscapes 13L, 26P**

The concept of "landscape" is the entry point for investigating the relationship between people and their environments: landscape as both the source of inspiration and the vehicle of expression. Exploration through open media studio projects, written work, readings and seminars.

Prerequisite: VIS120HI, VIS130HI and one VIS 200-level course

**VIS320HI Critical Curatorial Lab 13L, 26P**

Projects and seminars, in collaboration with The Power Plant, develop an understanding of curatorial and critical practices in contemporary visual and media arts.

Prerequisite: VIS (120HI, 130HI)/FAH102HI and one FAH OR VIS 200-level course

Exclusion: FAH 451HI

**VIS321HI Artists' Multiples 13L, 26P**

Production of artists' multiples in various media is augmented with gallery and archive visits, screenings and artist talks. Historical and contemporary technologies for reproduction are examined.

Prerequisite: VIS120HI, VIS130HI and one VIS 200-level course

**VIS322HI The Constructed Image 13L, 26P**

Composing an image is a skill. Students increase their skill and methodology in constructing their own images; they explore the construction of the image as an intersection of theory and practice.

Prerequisite: VIS120 and VIS130 and any 200 level VIS course

# Art

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**VIS323HI     Advanced Painting     39P**  
Advanced Painting introduces philosophical and theoretical issues raised by the conceptual relationship of painting to other artistic strategies and the contemporary environment. Studio work will be complemented by the study of advanced artists working in this medium.

Prerequisite: VIS120HI, VIS130HI, VIS201HI, VIS220HI

**VIS324HI     The Aesthetics of Everyday Life     39P**  
This interdisciplinary seminar course examines the aesthetic qualities of objects and experiences not usually considered by philosophers, including such things as sports, food, human relationships and weather. Projects are based on the textbook, "The Aesthetics of Everyday Life" and students will be evaluated through open-media studio projects and class participation.

Prerequisite: VIS120HI, VIS130HI, a minimum of one 200-level VIS course

**VIS325HI     Contemporary Art Issues     39P**  
Everything was contemporary once; this course explores the idea of contemporaneity. Students will be asked to identify themselves in the present-day landscape and to convey that awareness in seminar discussions and studio projects.

Prerequisite: VIS120HI, VIS130HI, a minimum of one 200-level VIS course

**VIS326HI     Studio Practice     39P**  
A project-based studio course in which each student works to advance and to articulate their visual arts practice, and to develop individual process, themes and influences, the articulation. Group critiques, seminars, reading and writing assignments. Open media, students must have access to own means of production.

Prerequisite: VIS120HI, VIS130HI, at least two 200-level VIS courses

**DRM354YI     Production II     13L, 26P**  
The course explores the meaning and function of stage and costume design for the theatre with emphasis on creative thinking, text analysis and concept development. Limited enrolment for Visual Studies students who must be at the 3rd-year level.

Prerequisite: Permission of University College Drama Program Committee

**VIS401HI     Thesis Text and Critique     39P**  
This course is taken in conjunction with VIS402HI :Thesis Project students develop and fabricate a series of projects over the course of the academic year. Studio, textual and critical analysis forms the basis for the final exhibition. The student is required to actively participate in all aspects of the course. Class discussions with faculty This class is intended for 3rd and 4th year VIS Majors and Specialists.

Prerequisite: VIS120HI, 130HI and at least two 200-level VIS courses and two 300-level VIS courses.

Exclusions:FAS 434-5, FAS 447-8, FAS 450-3

**VIS402HI     Thesis Project     39P**  
Students realize projects embarked upon in VIS 401HI Thesis Text and Critique. Class discussions with faculty.

Co-requisite:VIS401HF

Exclusions: FAS 434-5HI, FAS 447-8HI, FAS450-3HI

**VIS403HI     Secondary Focus Project     39P**  
A variety of projects developed in various media with a strong interdisciplinary focus.

Prerequisite: Permission of instructor

**VIS404HI     Independent Studies     39P**  
Individual advanced projects, including texts, that are subject to group critiques.

Prerequisite: Permission of instructor

**VIS405HI     Visual Studies Internship     13L, 26P**  
A one semester Internship provides placement at a gallery, media arts centre, artist run centre, artist or publication with a focus on contemporary art practice

Prerequisite:VIS120HI, 130HI, permission of Undergraduate Secretary

### Notes:

Only three of VIS311HI, VIS403HI, VIS404HI, VIS405HI may be taken.

Independent Studies credits (VIS311HI, 403HI, 404HI, and 405HI are only open to VIS Specialists and VIS Majors.

**VIS410HI     Artist In Residence Master Class     TBA**

Students work under the supervision of a visiting artist who provides the students with a full introduction to the specifics of her/his practice as an artist. A variety of media are explored specific to the visitor's own practice. Seminars are augmented with critiques in response to assignments.

Prerequisite: VIS120HI, VIS130HI, at least two 300-level VIS courses and permission of Graduate Program Director

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## Dr. David Chu Program in Asia-Pacific Studies

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The Dr. David Chu Program in Asia-Pacific Studies welcomes students who wish to combine concentrated study in a traditional academic discipline with an interdisciplinary major program that focuses on contemporary developments in this rapidly changing region. A broad survey course offered by the Department of Political Science provides students with a solid understanding of the complex political, economic, social and cultural life of the region. An additional range of optional courses that span the humanities and the social sciences allow students to develop more specialized knowledge of the region. Finally, a fourth-year capstone course allows students in the program to synthesize what they have learned in various optional courses while undertaking independent research on a topic of special interest.

Study of a major language of the region is an important component of the program. In many cases, this can be achieved by taking two courses in one of the three main languages taught in the Department of East Asian Studies: Chinese, Japanese or Korean. All possible efforts will also be made to assist and support students who wish to achieve basic fluency in another language of the region. Students who are already fluent in a language of the region are allowed to substitute optional courses for the language course requirements.

Students may consult the Director of the Program at the Munk Centre for International Studies. For general inquiries contact the Program Administrator at 416-946-8996, Munk Centre for International Studies, Room 227N or [munk.aps@artsci.utoronto.ca](mailto:munk.aps@artsci.utoronto.ca). For current developments, please check the Program's University web site ([www.utoronto.ca/davidchu](http://www.utoronto.ca/davidchu)).

### Dr. David Chu Program in Asia-Pacific Studies

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Enrolment in the Dr. David Chu Program in Asia-Pacific Studies is open to students who have successfully completed four full courses. A minimum CGPA of 2.5 is required. Those who seek advanced language standing must receive permission from the Program Director, and will be required to complete recommended substitute courses. Formal admission to the program is achieved by completing a required enrolment form. The required form is available from the Director, the Program Administrator, or the Program's web site.

#### Major program:

(7 full courses or their equivalent, including at least two 300+series courses)

1. POL 215Y1; ASI 400Y1. These courses must be taken in sequential order.
2. Two sequential Y1 courses normally in one of three languages - Chinese, Japanese or Korean - offered by the Department of East Asian Studies. For other languages, such as Thai, Vietnamese, Malay and Indonesian, students should consult with the Program Director. Generally two sequential courses are required for these languages as well but the Program will consider other arrangements including study abroad and intensive summer courses at other universities.

3. Three additional full course equivalents on appropriate Asia-Pacific topics from offerings in the following departments: ANT, EAS, GGR, HIS, PHL, POL, RLG, SOC. Students are invited to select any courses on the Asia Pacific region that are offered by the above departments (or by other departments not listed here). Please consult with the Program Director if you have any questions about your course selection.

### Asia-Pacific Studies Courses

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See page 33 for Key to Course Descriptions.

#### ASI400Y1 Seminar in Asia-Pacific Studies 52L (formerly ASI300Y1)

This seminar course examines diverse postwar experiences and realities of the Asia Pacific region, which comprises a range of countries that differ in cultural, ethnic, and religious backgrounds, in levels of social and economic developments, and in political regimes. Unlike Europe, which has gone through a steady process of integration since WWII, regional links among Asia Pacific countries have been rather weak and often limited. Attempts to forge regional economic cooperation within the Asia Pacific region, such as ASEAN, have been fraught with political and historical tensions. As a result, much of the linkage has been limited to investment, trade, and production networks. This seminar will examine the various social, economic, and political experiences and realities of the countries in this region and their implications.

Prerequisite: POL215Y1 and enrolment in the Asia Pacific Studies major/permission of the Program Director

Exclusion: ASI300Y1

This is a Humanities or Social Science course.

# Astronomy & Astrophysics

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## Faculty

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### Professors Emeriti and Directors Emeriti of the David Dunlap Observatory

J.D. Fernie, M Sc, Ph D, FRSC  
E. R. Seaquist, MA, PhD

### Professors Emeriti

M.J. Clement, M Sc, Ph D  
R.F. Garrison, BA, Ph D  
P.P. Kronberg, M Sc, Ph D, D Sc  
C.M. Clement, B Sc, MA, Ph D

### Professor and Chair of the Department and Director of the David Dunlap Observatory

P.G. Martin, M Sc, Ph D †

### Associate Chair, Graduate Studies

H.K.C. Yee, B Ap Sc, Ph D

### Associate Chair, Undergraduate Studies

R.G. Carlberg, M Sc, Ph D

### University Professor

J.R. Bond, OC, MS, Ph D, FRSC, FRS †

### Professors

P.Artymowicz, MSc, PhD (University of Toronto Scarborough)  
C.T. Bolton, M Sc, Ph D, FRSC  
C.C. Dyer, M Sc, Ph D (University of Toronto Scarborough)  
L. Kofman, BS, Ph D †  
J.B. Lester, MS, Ph D (University of Toronto Mississauga)  
N.W. Murray, BS, Ph D †  
J. R. Percy, B Sc, MA, Ph D (University of Toronto Mississauga)  
S.M. Rucinski, M Sc, Ph D (Associate Director, DDO)  
A.C. Thompson, BS, Ph D †  
M.H. van Kerkwijk, MA, Ph D

### Associate Professors

R. G. Abraham, B Sc, D Phil  
R. Jayawardhana, BS, AM, PhD  
S.W. Mochnacki, M Sc, Ph D  
C. B. Netterfield, BS, Ph D  
U-L. Pen, M Sc, Ph D †

### Assistant Professors

C. Borys, M Sc, Ph D  
W.H. Clark, MA, Ph D  
B.P. Crill, Sc B, Ph D  
J. P. Lowman, M Sc, Ph D (University of Toronto Scarborough)  
C.D. Matzner, AB, MA, Ph D  
D-S. Moon, Ph D  
R.R. Rafikov, BSc, MS, PhD †  
G. Srinivasan, Ph D † †  
S. Stanley, MA, Ph D † †  
Y. Wu, Ph D

† Cross-appointed, CITA

† † Cross-appointed, PLN

Since the launch of the Hubble Space Telescope in 1990 and the opening of a wide variety of major ground and space based sites for studying the universe across the entire electromagnetic spectrum, astronomers have been provided with an astonishing wealth of new information. From detailed studies of the Cosmic Microwave Background Radiation to the discovery of planets around other stars, from exploring the collisions of galaxies billions of years ago, to missions to the outer planets, astronomers are rapidly building a picture of the universe and the processes by which it is evolving with greater detail than ever before. The next decade might well provide answers to some of our most fundamental questions. Several courses are offered to suit persons of diverse backgrounds and depths of interest. Three beginning courses (AST 101H, 201H, 210H) require no special knowledge of mathematics or other sciences. They develop an understanding of the universe in a qualitative way and in terms of natural laws familiar to us on Earth. Audiovisual demonstrations are used extensively. The courses AST 121H1 and AST 251H1 are intended for students in other areas of the physical and life sciences. The remaining courses are designed for program students. In some of these courses, the objective is to provide for practical involvement by the student. This is achieved by the use of the remotely-controlled telescopes at the St. George and Scarborough Campus observatories by day as well as by night. A visit to the David Dunlap Observatory might also be arranged.

Undergraduate Enquiries  
ungrad.sec@astro.utoronto.ca (416-946-5243)

Web site:  
<http://www.astro.utoronto.ca>

## Astronomy & Astrophysics Programs

Enrolment in the Astronomy and Astrophysics programs requires completion of four courses; no minimum GPA is required.

### Astronomy & Astrophysics (Science program)

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#### Major program:

(8 full courses or their equivalent, including at least two courses at the 300+-level)

First Year:

MAT 135Y1/137Y1; PHY 138Y1/140Y1

Second Year:

1. AST 221H1, 222H1; MAT 235Y1/237Y1  
2. PHY 252H1 and one of PHY 225H1, 251H1, 255H1, 256H1

Third Year:

1. AST 320H1, 325H1/326Y  
2. One course from: CSC 336H1, 350H1, 351H1, 418H1, 456H1; ECE 385H1; PHY 305H1, 307H1/308H1, 315H1, 351H1, 352H1, 353H1, 355H1, 357H1, 358H1, 359H1  
3. One additional course or half course in APM/AST/CSC/MAT/PHY/STA, to make up the total of 8 full-course equivalents.

#### Minor program:

(4 full courses or their equivalent)

1. AST 221H1, 222H1, 320H1, 325H1/326Y1  
2. PHY 138Y1/140Y1  
3. PHY 252H1 and one of PHY 225H1, 251H1, 255H1, 256H1

#### Please note:

PHY138Y1/140Y1 requires MAT135Y1/137Y1/151Y1 and

# Astronomy & Astrophysics

PHY252HI requires MAT235Y1/237Y1/257Y1.

## Astronomy & Physics (Science program)

Consult Departments of Astronomy & Astrophysics and Physics.

### Specialist program:

(14 full courses or their equivalent, including at least one 400-series course)

First Year:

MAT 137Y1, 223HI/240HI; PHY 140Y1

Second Year:

AST 221HI, 222HI; MAT 237Y1, 244HI; PHY 251HI, 252HI, 256HI

Third Year:

1. APM 346HI; AST 320HI, 325HI/326Y; PHY 225HI, 255HI, 351HI, 355HI

2. One of MAT 224HI, 327HI, 334HI, 363HI, STA 257HI

Fourth Year:

1. AST 420HI, 425Y1; PHY 352HI, 353HI

2. One half course from each of groups A and B

3. One additional half course from either group A, group B or group C

### Group A:

PHY 357HI, 358HI, 359HI, 495HI

### Group B:

PHY 457HI, 459HI, 460HI, 483HI, 484HI

### Group C:

PHY 407HI, 408HI, 409HI

## Planetary Sciences Specialist Program - See Planetary Sciences

## Astronomy & Astrophysics Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all AST courses are classified as SCIENCE courses (see page 27).

### SCII99HI/YI First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

### AST101HI The Sun and Its Neighbours 26L

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: AST121HI, 210HI, 221HI. Also excluded are CIV101HI, any 100- or higher-series CHM/PHY courses taken previously or concurrently (with the exception of PHY100HI, 101HI, 201HI, 205HI, CHM200Y1)

### AST121HI Origin and Evolution of the Universe 26L

The origin of the Universe, the origin of the chemical elements, the origin of stars and galaxies, the origin of life in the Universe. This course is intended for students who are enrolling in science courses.

Exclusion: AST101HI, 201HI, 210HI. Also excluded are

AST221HI, 222HI if taken previously or concurrently

Prerequisite: OAC Physics/ SPH4U and OAC Calculus/MCB4U

### AST201HI Stars and Galaxies 26L

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: AST121HI, 210HI. Also excluded are CIV101HI

and any 100- or higher-series CHM or PHY courses

taken previously or concurrently (with the exception of

PHY100HI, 101HI, 201HI, 205HI, CHM200Y1)

### AST210HI Great Moments in Astronomy 26L

The history of Western astronomy: 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 ends with an outline of one of the most significant puzzles of our day and an examination of the potential for a new revolution in knowledge in our lifetime.

Exclusion: AST101HI, 121HI, 201HI

### AST221HI Stars and Planets 39L

Telescopes and instrumentation, concepts in basic physics applied to a treatment of the solar system and stars.

Exclusion: AST101HI/201HI

Prerequisite: PHY138Y1/140Y1, MAT135Y1/137Y1

### AST222HI Galaxies and Cosmology 39L

Concepts of basic physics applied to a treatment of stellar systems and the structure of the Universe.

Exclusion: AST201HI

Prerequisite: AST221HI

### AST251HI Life on Other Worlds 26L

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. Discussion of search techniques and possibilities for interstellar travel and space colonies.

Prerequisite: OAC Biology/OAC Chemistry/OAC Physics/SBI4U/SCH4U/ SPH4U

### AST299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details.

### AST320HI Introduction to Astrophysics 26L

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: AST222HI, PHY252HI

# Astronomy & Astrophysics

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**AST325HI Introduction to Practical Astronomy 39P**

Observational projects in astrophysics involving work with telescopes and CCD detectors. Principles of photometry. Use of standard software packages for data reduction and analysis. Students will be required to use UNIX/Linux operating systems. Exclusion: AST 326YI  
Prerequisite: AST221HI/222HI, PHY251HI/252HI/255HI/256HI

**AST326YI Practical Astronomy 78P**

Observational projects in astrophysics involving work with telescopes and CCD detectors. Principles of photometry and spectroscopy. Use of UNIX/Linux-based software packages for data reduction and analysis. This course is an expanded version of AST 325HI designed to give students a wider exposure to practical astronomy. Exclusion: AST 325HI  
Prerequisite: AST 221HI/222HI, PHY 251HI/252HI/255HI/256HI

**AST398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**AST425YI Research Topic in Astronomy TBA**

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.

Prerequisite: Two of PHY 307HI, 308HI, 309HI, 351HI, 352HI, 353HI, 355HI, 357HI, 358HI, 359HI, AST325HI/326YI,

## Faculty

### University Professors Emeriti

A.G. Brook, BA, Ph D, FRSC  
J.B. Jones, B Sc, Ph D, D Phil, FRSC, FCIC

### Professors Emeriti

M. Bersohn, BS, Ph D  
G. Burns, B Sc, Ph D  
I.G. Csizmadia, Dip Eng, M Sc, Ph D  
A.G. Harrison, M Sc, Ph D, FCIC  
A.J. Kresge, BA, Ph D, FRSC (University of Toronto Scarborough)  
R.A. McClelland, B Sc, Ph D, FRSC (University of Toronto Scarborough)  
S. McLean, B Sc, Ph D, FCIC  
M. Menzinger, Dip Eng, M Sc, Ph D (SM)  
S.C. Nyburg, B Sc, Ph D, D Sc  
A.J. Poë, B Sc, MA, Ph D, D Sc, DIC, Sc D, FCIC (University of Toronto Mississauga)  
W.F. Reynolds, M Sc, Ph D  
E.A. Robinson, B Sc, Ph D, D Sc (University of Toronto Mississauga)  
G.H. Schmid, B Sc, Ph D, FCIC  
I.W.J. Still, B Sc, Ph D, D Sc (University of Toronto Mississauga)  
J.C. Thompson, BA, Ph D (University of Toronto Scarborough)  
T.T. Tidwell, B Sc, AM, Ph D, FRSC (University of Toronto Scarborough)  
J.P. Valteau, MA, Ph D (I)  
A. Walker, B Sc, Ph D (University of Toronto Scarborough)  
S.C. Wallace, B Sc, Ph D

### Professor and Chair of the Department

S.A. Mabury, BS, Ph D (U)

### Professor and Associate Chair (Graduate)

G. Walker, BA, Ph D

### Senior Lecturer and Associate Chair (Undergraduate)

A.P. Dicks, B Sc, Ph D (SM)

### University Professors

P.W. Brumer, B Sc, Ph D, FRSC  
G.A. Ozin, B Sc, D Phil, FRSC, FCIC  
J.C. Polanyi, M Sc, Ph D, D Sc, FRS, FRSC, FRSEd  
M.A. Winnik, BA, Ph D, FRSC

### Professors

J.P. Abbatt, B Sc, Ph D  
J. Chin, M Sc, Ph D  
D.J. Donaldson, B Sc, Ph D (University of Toronto Scarborough)  
D.H. Farrar, M Sc, Ph D  
M. Georges, B Sc, Ph D (University of Toronto Mississauga)  
M.C. Goh, BS, Ph D (U)  
R.E. Kapral, B Sc, Ph D, FRSC  
R.H. Kluger, AM, Ph D, FCIC, FRSC  
U.J. Krull, B Sc, Ph D, FCIC (University of Toronto Mississauga)

E. Kumacheva, M Sc, Ph D  
M. Lautens, B Sc, Ph D, FCIC, FRSC (T)  
P.M. Macdonald, M Sc, Ph D (University of Toronto Mississauga)  
R.J.D. Miller, B Sc, Ph D, FRSC, FCIC  
R.H. Morris, B Sc, Ph D, FRSC, FCIC  
J. Powell, B Sc, Ph D, FCIC  
M. Thompson, B Sc, Ph D, D Sc, FRSC, FCIC  
S.G. Whittington, MA, Ph D (T)  
G.A. Woolley, B Sc, Ph D

### Associate Professors

R.A. Batey, BA, Ph D  
A. Dhirani, M Sc, Ph D  
S.J. Fraser, BA, Ph D (University of Toronto Scarborough)  
J. Schofield, BA, Ph D  
G.D. Scholes, B Sc, Ph D  
F. Wania, B Sc, Ph D (University of Toronto Scarborough)  
A. Yudin, BS, Ph D  
D.B. Zamble, B Sc, Ph D

### Assistant Professors

U. Fekl, M Sc, Ph D (University of Toronto Mississauga)  
V. Dong, B Sc, Ph D  
R.A. Jockusch, BA, Ph D  
D. McMillen, MA Sc, Ph D (University of Toronto Mississauga)  
J. Murphy, B Sc, Ph D  
M. Nitz, B Sc, Ph D  
S. Prosser, M Sc, Ph D (University of Toronto Mississauga)  
J. Shin, AB, Ph D (University of Toronto Mississauga)  
A. J. Simpson, B Sc, Ph D (University of Toronto Scarborough)  
D. Song, B Sc, Ph D  
M. Taylor, B Sc, Ph D  
A. Wheeler, B Sc, Ph D

### Senior Lecturers

C.S. Browning, M Sc, Ph D (SM)  
C.M. Kutas, B Sc, M Ed  
D. F. McIntosh, B Sc, Ph D  
H.O. Ochorodnyk, M Sc

### Lecturers

K. Quinlan, B Sc, Ph D  
D. Stone, B Sc, Ph D

### Tutor

M. Morgan, B Sc

Chemistry is a challenging intellectual pursuit and a dominant force in shaping our civilization. Chemistry places strong emphasis on an understanding of the structures and properties of individual atoms and 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 courses offered, and the programs recommended by the Department.

# Chemistry

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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 courses, substantial modifications to later-year courses, the introduction of new specialist programs in Biological Chemistry, Materials Chemistry, and in Environmental Chemistry, and more flexibility for students choosing areas of specialization both within chemistry and in combination with other disciplines.

Students can choose between two first year options according to their intended area of specialization.

CHM151Y1 is the course that is strongly recommended for all students who will be following one of the specialist programs involving chemistry, including Biological Chemistry and Environmental Chemistry or who will be including a substantial amount of chemistry in their degree (such as those following a chemistry major program).

The combination of CHM138HI and CHM139HI is recommended for students who intend to take programs in the Life or Health Sciences that do not require a large amount of chemistry. These courses may be taken in any order, and not in the same session.

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 on the World Wide Web at [www.chem.utoronto.ca/undergraduate/courses/1st.html](http://www.chem.utoronto.ca/undergraduate/courses/1st.html). 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-series in 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 or phone the Undergraduate Office, Lash Miller Chemical Laboratories, Room 151 (416-978-6033).

## Chemistry Programs

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### Biological Chemistry (Science program)

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Consult Associate Chair, Undergraduate Studies, Department of Chemistry.

Enrolment in this program requires completion of four courses; no minimum GPA required.

#### Specialist program:

(13 full courses or their equivalent, including at least two 400-series courses)

First Year: BIO 150Y1; (CHM 151Y1 strongly recommended)/(138HI, 139HI); MAT 135Y1/137Y1; PHY 138Y1/140Y1

Second and Higher Years:

1. BCH 210HI; BIO 250Y1; CHM 225Y1/(220HI, 221HI), 238Y1, 247HI/249HI (CHM249HI strongly recommended), 347HI, 348HI, 379HI. CHM217HI is recommended.
2. Further 300/400-series courses in BCH or CHM, including CHM 437HI, 447HI, and 479HI to make a total of 13 full courses. BOT 450HI is also acceptable.

### Chemical Physics (Science program)

---

Consult Professor J. Schofield, Department of Chemistry.

Enrolment in this program requires completion of four courses; no minimum GPA required.

#### Specialist program:

(14 full courses or their equivalent, including at least 1.5 400-series courses)

First Year: (CHM 151Y1 strongly recommended)/(138HI, 139HI), MAT 137Y1/157Y1; PHY 140Y1

Higher Years:

1. APM 346HI; CHM 225Y1, 326HI, 327HI, 328HI; MAT 223HI/240HI, 235Y1/237Y1, 244HI, 334HI; PHY 251HI, 255HI, 351HI, 352HI; CHM 423HI/PHY (355HI, 457HI)
2. Two full course equivalents from CHM 217HI, 238Y1, 247HI/249HI (CHM249HI strongly recommended), 310HI, 314Y1/317HI, 338HI, 348HI, 415HI
3. Further 400-series half-courses in CHM/PHY to make a total of 14 full courses

### Chemistry (Science program)

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Consult Associate Chair, Undergraduate Studies, Department of Chemistry.

Enrolment in the Specialist, Major and Minor Chemistry programs requires completion of four courses; no minimum GPA required.

#### Specialist program:

(13 full courses or their equivalent, including at least three 400-series courses)

First Year: (CHM 151Y1 strongly recommended)/(138HI, 139HI); MAT 135Y1/137Y1; PHY 138Y1/140Y1

Second Year: CHM 217HI, 225Y1/(220HI with minimum grade of B, 221HI), 238Y1, 249HI; MAT 235Y1/237Y1

Third and Fourth Years:

1. CHM 326HI/328HI, 327HI
2. Further 300/400-level full course equivalents in CHM/MAT/another science, including at least two of CHM 314Y1/317HI, 326HI/328HI, 338HI, 343HI/346HI/348HI, 379HI and at least three 400-level CHM full course equivalents to make a total of 13 full courses.

#### Major program:

(8 full courses or their equivalent)

First Year: (CHM 151Y1 strongly recommended)/(138HI, 139HI); MAT 135Y1/137Y1

Second Year: At least two of CHM 217HI, 220HI/225Y1, 238Y1, 247HI/249HI (CHM249HI strongly recommended)

Third Year: At least two of CHM 314Y1/317HI, 327HI, 338HI, (343HI/346HI)/348HI, 379HI

Fourth Year: Further 200/300/400-level CHM courses to make a total of seven CHM full course equivalents (CHM 299Y1 excluded)

#### Minor program:

(4 full courses or their equivalent, including at least one full-course equivalent at the 300+ level))

First Year: CHM 151Y1/(138HI, 139HI)

Second Year: At least one of CHM 217HI, 220HI/225Y1, 238Y1, 247HI/249HI (CHM249HI strongly recommended)

Third Year: At least one of CHM 314Y1/317HI, 327HI, 338HI, 343HI/346HI, 348HI, 379HI



Fourth Year: Further 200/300/400-level CHM courses to make a total of four CHM full course equivalents

## **Chemistry and Geology (Science program)**

Consult Associate Chair, Undergraduate Studies, Department of Chemistry, and Professor J. Mungall, Department of Geology.

Enrolment in this program requires completion of four courses; no minimum GPA required.

### **Specialist program:**

(12 full courses or their equivalent, including at least one 400-series course)

First Year: (CHM 151Y1 strongly recommended)/(138HI, 139HI); MAT 135Y1/137Y1; PHY 138Y1/140Y1\*

Second Year: CHM 217HI, 238Y1; GLG 206HI, 207HI, 216HI/217HI

Third and Fourth Years:

1. CHM 225Y1, 247HI/249HI (CHM249HI strongly recommended), 338HI, 314Y1/317HI/(343HI/346HI)/348HI
2. Two 400-series half-courses in CHM; GLG 318HI, 340HI
3. Three 300+series half-courses in GLG

\* GLG 110HI is recommended but not required in the program

## **Environmental Chemistry (Science program)**

Consult Professor J. Abbott, Department of Chemistry

Jointly sponsored by the Centre for Environment and the Department of Chemistry, this program focuses on the development of a fundamental background in chemistry as applied to understanding the chemical impacts of humankind's activities on the soil, air, and water. Emphasis is given to developing analytical skills and mechanistic understanding of the subject.

Enrolment in this program is limited. It requires prior completion of 4 courses with a minimum GPA of 2.3. Three courses must be from the First Year list. Apply through the Centre for Environment by: 1st Round: TBA; 2nd Round: TBA at: [www.artsci.utoronto.ca/current/undergraduate](http://www.artsci.utoronto.ca/current/undergraduate).

### **Specialist program:**

(13.5 full courses or their equivalent, including at least one 400-series course)

Jointly sponsored by the Centre for Environment and the Department of Chemistry, this program focuses on analytical theory, instrumentation and methodological aspects of organic and inorganic contaminants in soil, water, air and biological tissues.

First Year: BIO 150Y1; (CHM 151Y1 strongly recommended)/(138HI, 139HI); MAT 135Y1/137Y1; PHY 138Y1/140Y1

Second Year: CHM 217HI, 225Y1/(220HI, 221HI), 238Y1, 247HI/249HI (CHM249HI strongly recommended); ENV 235Y1

Third and Fourth Years:

1. CHM 310HI, 410HI, 415HI; ENV 234Y1, ENV321Y1/(JGE 221Y1/JIE222Y1)
2. One additional FCE from 300/400-series CHM courses
3. (JIE 410HI, ENV421HI)/CHM 409Y1/418Y1/428Y1/439Y1\*/449Y1

\*CHM 439Y1 has the prerequisite CHM 438HI

### **Minor program:**

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. CHM (138HI, 139HI)/151Y1
2. One full course equivalent from CHM 217HI, (220HI, 221HI)/225Y1, 238Y1, 247HI/249HI
3. ENV235Y
4. Any two of CHM 310HI, 410HI, 415HI

## **Materials Chemistry Program - See Materials Science**

## **Pharmaceutical Chemistry - See Pharmaceutical Chemistry**

## **Planetary Science Program - See Planetary Science**

## **Chemistry Courses**

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all CHM courses are classified as SCIENCE courses (see page 27).

### **SC1199HI/Y1 First Year Seminar 26L/52L**

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly-admitted first year students. It may serve as a distribution requirement course; see page 47.

### **CHM138HI Introductory Organic Chemistry I 39L, 18P, 12T**

An introduction to principles of structure and their relation to reactivity of organic molecules: molecular structure, stereochemistry, functional groups, and reactions. Recommended for students in life and health science programs that involve a small amount of chemistry

NOTE: CHM138HI and 139HI may be taken in either order, but not both in the same session.

Exclusion: CHM 151Y1, CHM242H5, CHMB41H3, CHMB42H3

Prerequisite: Chemistry SCH4U, Mathematics MCB4U

Co-requisite: MAT 135Y1/137Y1/157Y1 recommended, but may be required pre-requisite in 2nd year Chemistry courses; PHY 138Y1/140Y1 recommended

### **CHM139HI Chemistry: Physical Principles 39L, 18P, 12T**

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

NOTE: CHM138HI and 139HI may be taken in either order, but not both in the same session.

Exclusion: CHM 151Y1, CHMA10H3, CHMA11H3, CHM140Y5

Prerequisite: Chemistry SCH4U, Mathematics MCB4U

Co-requisite: MAT 135Y1/137Y1/157Y1 recommended, but may be required pre-requisite in 2nd year Chemistry courses; PHY 138Y1/140Y1 recommended

# Chemistry

## **CHM151YI Chemistry: The Molecular Science 78L, 35P, 26T**

An introduction to the major areas of modern chemistry, including organic and biological chemistry; physical chemistry and chemical physics; and inorganic/materials chemistry. The course is intended for students who will be following one of the chemistry specialist programs (including Biological Chemistry and Environmental Chemistry) or who will be including a substantial amount of chemistry in their degree (such as those following a chemistry major program). The combination of CHM151YI and CHM249HI serves as a full year introductory course in organic chemistry with laboratory. Note: Students taking Chemistry and Physics may schedule the labs on alternate weeks. CHM151YI 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. Two hour biweekly Course Community meetings, during laboratory class hours (3:00 - 5:00 p.m.) will alternate weeks with the CHM151YI lab classes. The lab time is reserved for CHM151YI activities every week of each semester.

Exclusion: CHM (138HI, 139HI), CHM140Y5, CHMA10H3, CHMA11H3

Prerequisite: Chemistry SCH4U, Mathematics MCB4U; Physics SPH4U recommended

Co-requisite: MAT135YI/137YI/157YI; PHY138YI/140YI

## **CHM217HI Introduction to Analytical Chemistry 26L, 52P, 13T**

Introduction to the science of chemical measurement, from sampling through analysis to the interpretation of results, 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 lectures, laboratories, and tutorials, this highly practical course will introduce you to a variety of analytical techniques including volumetric methods, potentiometry, uv/visible and infrared spectrophotometry, flame atomic absorption spectrometry, and chromatography. Prerequisite: CHM(138HI, 139HI)/151YI with a minimum grade of 63%, or permission from the department

## **CHM220HI Physical Chemistry for Life Sciences 39L, 13T**

Introduction to thermodynamics; 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. Students enrolled in any chemistry specialist programs (including Biological Chemistry and Environmental Chemistry) or who will be including a substantial amount of chemistry in their degree (such as those following a chemistry major program), are strongly encouraged to take CHM225YI.

Exclusion: CHM 225YI, 22IH5

Prerequisite: CHM(138HI, 139HI)/151YI; MAT135YI/137YI/157YI

Recommended co-requisite: MAT235YI/237YI

## **CHM221HI Physical Chemistry: The Molecular Viewpoint 26L, 13T**

A continuation of CHM220HI for students wishing to take some additional material in Physical Chemistry. The course

covers topics in quantum mechanics and spectroscopy as well as an introduction to reaction kinetics.

Exclusion: CHM 225YI, 22IH5

Prerequisite: CHM220HI with a minimum grade of B, or permission from the department

Co-requisite: MAT235YI/237YI recommended, but may be required pre-requisite in 3rd year Chemistry courses

## **CHM225YI Introduction to Physical Chemistry 52L, 26T**

Topics: introductory thermodynamics, first and second law and applications; chemical equilibrium; chemical kinetics; introductory quantum mechanics; spectroscopy. The course is intended for students who will be following one of the chemistry specialist programs (including Biological Chemistry and Environmental Chemistry) or who will be including a substantial amount of chemistry in their degree (such as those following a chemistry major program).

Exclusion: CHM 220HI, 22IH1, 22IH5

Prerequisite: [CHM(138HI, 139HI)/151YI with a minimum grade of 63%, or permission from the department], MAT135YI/137YI/157YI, PHY138YI/140YI

Co-requisite: MAT235YI/237YI

## **ENV235YI Physics and Chemistry of Planet Earth 52L, 26T**

(see Centre for Environment)

This course considers the fundamental chemical and physical processes of the Earth's natural environment. The first semester of the course focuses primarily on the atmosphere: its evolution, structure, composition and dynamical character. Particular emphasis is given to a discussion of global climate and the underlying physical, chemical and biogeochemical factors that drive climate change. Within this context, stratospheric ozone depletion, ocean chemistry, urban air pollution, acid rain and water quality are also discussed. The second semester focuses on the solid Earth: its formulation and evolution, internal dynamics, mantle-core differentiation, volcanism, tectonics and paleoclimate/ice ages. Throughout the course, the operation of the Earth as a coupled physico-chemical system over a range of timescales is emphasized.

Prerequisite: CHM(138HI, 139HI)/151YI, MAT135YI/137YI/JMB170YI, PHY138YI/140YI

## **CHM238YI Introduction to Inorganic Chemistry 52L, 52P**

The first part (with CHM338HI) of a two-year sequence in Inorganic Chemistry, designed to illustrate and systematize the rich variety of structures, physical properties and reactions of compounds of the elements across and down the Periodic Table. Introduction to structure, symmetry and bonding of molecules and lattices; acid-base and redox reactions; d-metal complexes; systematic chemistry of metals and elements of the s and p blocks; inorganic materials and solid state chemistry with applications in advanced technologies.

Prerequisite: CHM151YI/(138HI, 139HI) with a minimum grade of 63%, or permission from the department

## **CHM247HI Introductory Organic Chemistry II 39L, 22P, 12T**

Reactions of organic compounds. Principles of mechanism, synthesis, and spectroscopy, continuing from CHM 138HI. This course is recommended for students in life and health science programs that involve a small amount of chemistry. Students enrolled in any chemistry specialist programs (including Biological Chemistry and Environmental Chemistry) or who

will be including a substantial amount of chemistry in their degree (such as those following a chemistry major program). are strongly encouraged to take CHM249HI. Tutorial (12T) is optional.

Exclusion: CHM249HI, CHM242H5, CHM243H5, CHMB41H3, CHMB42H3

Prerequisite: CHM(138HI, 139HI)/151YI

**CHM249HI Organic Chemistry 39L, 48P**

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 mechanism 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 discussion of topics relating to the biological behaviour of organic molecules and medicinal chemistry. This course continues from CHM 151YI or CHM 138HI and is designed for students in the chemistry specialist and major programs. This course is highly recommended for students in the Biological Chemistry program.

Exclusion: CHM247HI, CHM242H5, CHM243H5, CHMB41H3, CHMB42H3

Prerequisite: CHM151YI/(138HI, 139HI) with a minimum grade of 63%, or permission from the department

**CHM299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**CHM310HI Environmental Chemistry 26L**

Major chemical pollutants and their sources, the environmental reactions they undergo, and how they become distributed throughout the environment. Focus is on the principal routes of chemical and biological degradation of toxicants; oxidation, photodegradation, hydrolysis, reduction, biotic metabolism, and microbial degradation. The principal physical processes by which chemicals move, concentrate, and dissipate.

Prerequisite: CHM247HI/249HI

**CHM317HI Introduction to Instrumental Methods of Analysis 26L, 52P**

Scope of instrumental analytical chemistry; Fourier transform IR absorption spectroscopy; molecular luminescence; emission spectroscopy; mass spectroscopy, electrochemical techniques; sensors; gas and high performance liquid chromatography; instrument design principles and applications in industry and the environment.

Prerequisite: CHM217HI with a minimum grade of 63%, or permission from the department

Recommended preparation: CHM (220HI, 221HI)/225YI

**CHM325HI Introduction to Inorganic and Polymer Materials Chemistry 26L**

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: CHM220HI/225YI, 238YI, 247HI/249HI

**CHM326HI Introductory Quantum Mechanics and Spectroscopy 26L**

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: CHM225YI/(CHM 220HI, 221HI), MAT235YI/237YI

**CHM327HI Experimental Physical Chemistry 13L, 52P**

Students are exposed to experiments to help them experience modern physical chemistry. Labs designed to illustrate physical chemistry principles and practical techniques as well as their real world state of the art applications. The course also involves some lecture material to broaden the laboratory experience.

Prerequisite: CHM225YI/(CHM220HI, 221HI) with a minimum grade of 65%, or permission from the department

Recommended co-requisites: CHM326HI or CHM328HI

**CHM328HI Modern Physical Chemistry 26L**

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: CHM225YI/(CHM 220HI, 221HI), MAT235YI/237YI

**CHM338HI Intermediate Inorganic Chemistry 26L, 52P**

Further study of the structures, physical properties and reactions of compounds of the main group elements and the transition metals. Introductions to spectroscopy and structural analysis, reaction mechanisms, d- and f- block organometallic compounds, catalysis, structures of solids and bioinorganic chemistry. The weekly laboratory demonstrates aspects of transition metal chemistry.

Prerequisite: CHM238YI with a minimum grade of 65%, or permission from the department

Recommended Preparation: CHM217HI, 247HI/249HI

**CHM342HI Modern Organic Synthesis (formerly CHM345HI) 26L**

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.

Exclusion: CHM345HI, CHM346HI

Prerequisite: CHM247HI/249HI

**CHM343HI Organic Synthesis Techniques 26L, 52P**

This laboratory course showcases modern organic synthesis techniques and introduces chemical research principles. It provides excellent preparation for a 400-level research project in organic chemistry. Associated lectures teach theory and problem-solving approaches from a practical perspective.

Exclusion: CHM346HI

Prerequisite: CHM247HI/249HI with a minimum grade of 65%, or permission from the department

**CHM347HI Organic Chemistry of Biological Compounds 26L, 13T**

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

# Chemistry

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modification, reactions and synthesis. In addition to lectures and reading from texts, there will be opportunities for independent written assignments on several of the topics.

Prerequisite: CHM247H1/249H1

Recommended preparation: CHM217H1

## **CHM348H1 Organic Reaction Mechanisms 26L, 26P**

An advanced survey of principles and methods that deal with organic chemical structure and reactivity: advanced stereochemistry, conformational analysis, reaction kinetics, isotope effects, mechanistic approaches, applications of free energy relationships, orbital transformations, systematization of mechanisms, testing hypotheses.

Prerequisite: CHM247H1/249H1 with a minimum grade of 65%, or permission from the department

## **CHM379H1 Biomolecular Chemistry 26L, 48P**

This course provides an opportunity to learn core techniques in biological chemistry in a small group laboratory setting. Lectures will discuss the theory behind the techniques and highlight how they are used in current biological chemistry research and practice.

Exclusion: BCH370H1, BCH 371H1

Prerequisite: (CHM247H1/249H1, with a minimum grade of 65%, or permission from the department), 347H1, BCH 210H1

Recommended preparation: CHM217H1

## **CHM398H0/ 399Y0 Independent Experiential Study Project**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

## **CHM409Y1 Introduction to Research in Environmental Chemistry 260P**

An experimental or theoretical research problem under the supervision of a member of staff. Applications for enrolment should be made to the Department in the preceding Winter Session.

Exclusion: CHM418Y1/428Y1/439Y1/449Y1

Prerequisite: Permission of Department

Recommended preparation: CHM314Y1/317H1

## **CHM410H1 Analytical Environmental Chemistry 26L, 32P**

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.

Prerequisite: CHM310H1

Recommended preparation: CHM314Y1/317H1

## **CHM414H1 Developing Techniques in Analytical Chemistry 26L**

Current research in analytical chemistry with emphasis on rapidly emerging techniques. Course topics chosen from biosensor technology, transducer theory and operation, device design and fabrication, surface modification and methods of surface analysis, flow injection analysis and chemometrics.

Recommended preparation: CHM217H1/314Y1/317H1

## **CHM415H1 Atmospheric Chemistry 26L**

This course considers the chemistry occurring in the Earth's atmosphere, with emphasis on developing molecular-level understanding of the photochemistry, free-radical kinetics, and heterogeneous chemistry that occurs. Topics include stratospheric ozone depletion, trace gas oxidation, urban air

pollution, acid rain, and the connections between aerosols and climate.

Prerequisite: CHM220H1/225Y1/310H1

Recommended preparation: MAT135Y1/137Y1; PHY 138Y1/140Y1

## **CHM416H1 Separation Science 26L**

Principles of separation in analytical chemistry. Fractionation processes and solvent extractions; theory of chromatography, retention time, column efficiency and resolution. Principles of gas-liquid chromatography; instrumentation for gas chromatography. High performance liquid chromatography - practice and equipment design. Ion exchange, size-exclusion and affinity chromatography. Electrophoretic techniques.

Prerequisite: CHM314Y1/317H1

## **CHM417H1 Instrumentation for Chemists 26L**

Basic understanding of components used in machines conventionally applied to chemical analysis and research. Electronic circuits and measurement; optical components; analog-digital conversion; lock-in amplifiers and frequency counters; interfaces for data acquisition and LabView; signal control.

Prerequisite: CHM317H1

## **CHM418Y1 Introduction to Research in Analytical Chemistry 260P**

An experimental or theoretical research problem under the supervision of a member of staff. Applications for enrolment should be made to the Department in the preceding Winter Session.

Exclusion: CHM409Y1/428Y1/439Y1/449Y1

Prerequisite: Permission of Department

Recommended preparation: CHM314Y1/317H1

## **CHM421H1 Chemical Kinetics & Dynamics 26L**

The course provides an introduction to 1) molecular reaction dynamics (potential energy surfaces, bimolecular collisions, dynamics of bimolecular and unimolecular reactions, transition state theory) and to the modern tools (often laser based) to explore such dynamics, 2) relation of dynamics to classical chemical kinetics (rate, rate laws and mechanisms), 3) modern methods to control molecular processes.

Prerequisite: CHM (326H1, 328H1)

## **CHM423H1 Applications of Quantum Mechanics 26L**

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

## **CHM426H1 Polymer Chemistry 26L**

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: CHM325H1; two of CHM328H1, 338H1, 348H1/ permission of the instructor

## **CHM427H1 Statistical Mechanics 26L**

Ensemble theory in statistical mechanics. Applications, including imperfect gases and liquid theories. Introduction to non-equilibrium problems.

Prerequisite: CHM(326HI, 328HI)

**CHM428YI Introduction to Research in Physical Chemistry 260P**

An experimental or theoretical research problem under the supervision of a member of the Physical Chemistry staff. Enrolment in this course may be restricted and must be approved by the Department. Applications for enrolment should be made to the Department in the preceding Winter Session. Exclusion: CHM409YI/418YI/439YI/449YI  
Prerequisite: CHM326HI/328HI, CHM327HI, permission of Department

**CHM432HI Organometallic Chemistry and Polymer Materials Chemistry 26L**

Structure, bonding, and reactions of organometallic compounds, with emphasis on basic mechanisms, and industrial processes. Addition, metalation, substitution, elimination, important catalytic cycles, electrophilic, and nucleophilic reactions are considered on a mechanistic basis. Properties of s and p block organometallics.  
Prerequisite: CHM338HI  
Recommended preparation: CHM348HI

**CHM434HI Advanced Materials Chemistry 26L**

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: CHM325HI, 338HI

**CHM437HI Bio-Inorganic Chemistry 26L**

Essential elements in biology; naturally occurring and medicinal ligands; transport, uptake and control of concentration of metal ions; physical methods of characterization of metal binding sites. Roles of metal ions: 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; as sources of biominerals; as radiopharmaceuticals.  
Prerequisite: CHM238YI  
Recommended preparation: CHM338HI (strongly recommended), CHM347HI/379HI

**CHM438HI Advanced Inorganic and Materials Chemistry Laboratory 130P**

The 4-week format of the lab bridges the gap between typical undergraduate labs and the realities of academic and industrial research and provides an exceptional educational opportunity for students intending to do honours research projects or considering going on in graduate studies. The lab is open throughout the day for the first four weeks of the fall term and instructional staff are available during this time to provide guidance on an individual basis. Applications for enrolment should be made to the Department in the preceding Winter Session.

Prerequisite: Chemistry Specialist students: CHM238Y, CHM338HI and permission of Department. Materials

Science Specialist students: CHM238Y, CHM325H and permission of Department

**CHM439YI Introduction to Research in Inorganic Chemistry 260P**

An experimental or theoretical research problem under the supervision of a staff member. Applications for enrolment should be made to the Department in the preceding Winter Session.  
Exclusion: CHM409YI/418YI/428YI/449YI  
Prerequisite: Permission of Department  
Co-requisite: CHM438HI

**CHM440HI The Synthesis of Modern Pharmaceutical Agents 26L**

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: CHM342HI/345HI/346HI

**CHM441HI Spectroscopic Analysis in Organic Chemistry 26L, 6P**

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).  
Prerequisite: CHM342HI/343HI/345HI/346HI/348HI

**CHM443HI Physical Organic Chemistry 26L**

Methods for the determination of organic reaction mechanisms, both in a kinetic and non-kinetic sense. Topics include reactive intermediates, product identification, structure/reactivity relationships, solvent effects, kinetic isotope effects and acid/base catalysis  
Prerequisite: CHM220HI/225YI, 348HI

**CHM447HI Bio-organic Chemistry 26L**

Applications of organic chemistry and physical organic chemistry to the study of biologically important processes. Topics include kinetics and mechanisms of enzyme catalysis, chemistry of co-enzymes, drug and inhibitor design, catalytic antibodies.  
Prerequisite: BCH210HI/242YI/310HI/321YI/ CHM379HI/347HI  
Recommended preparation: CHM348HI

**CHM449YI Introduction to Research in Organic Chemistry 260P**

An experimental research problem under the supervision of a faculty member. Applications for enrolment should be made to the Department in the preceding Winter Session. Projects in the areas of synthetic, physical and bio-organic chemistry are offered.  
Exclusion: CHM409YI/418YI/428YI/439YI  
Prerequisite: Permission of Department  
Recommended preparation: CHM343HI/346HI/348HI/379HI

**CHM479HI Biological Chemistry 26L**

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: CHM447HI, BCH210HI/242YI

# Classics

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## Faculty

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### Professors Emeriti

R.L. Beck, AM, Ph D (University of Toronto Mississauga)  
A. Dalzell, B Litt, MA  
J.N. Grant, MA, Ph D  
Rev. M.O. Lee, MA, Ph D  
C.J. McDonough, MA, Ph D  
W.E. McLeod, AM, Ph D  
D.P. de Montmollin, D ès L  
M.J. O'Brien, MA, Ph D  
K.F. Quinn, MA  
J.M. Rist, MA, FRSC  
E.I. Robbins, MA, Ph D  
T.M. Robinson, B Litt, D Litt  
A. E. Samuel, MA, Ph D  
R.M.H. Shepherd, MA  
D.F.S. Thomson, MA  
J.S. Traill, AM, Ph D

### Chair of the Department

TBA

### Professor and Associate Chair, Graduate Affairs

C.F.M. Bruun, MA, Ph D

### Professor and Undergraduate Coordinator

A.R. Jones, BA, Ph D, FRSC

### University Professor

E.J. Weinrib, AM, Ph D (Cecil A. Wright Professor of Law)

### Professors

T.D. Barnes, MA, D Phil, FRSC  
M.J. Dewar, MA, D Phil  
B.C. Inwood, MA, Ph D, FRSC (Canada Research Chair)  
A.M. Keith, MA, Ph D  
J.C. Magee, MA, Ph D

### Associate Professors

R. Barney, BA, Ph D (Canada Research Chair)  
J.S. Burgess, MA, Ph D  
H. J. Mason, AM, Ph D  
C.I. Rubincam, BA, Ph D (University of Toronto Mississauga)  
V. Wohl MA, PhD

### Assistant Professors

B. Akrigg BA, PhD  
A.E. Bendlin, MA, D Phil (University of Toronto Mississauga)  
M. Cottier, L ès L, D Phil  
E. Lytle BA, PhD  
M. Revermann, MA, D Phil (University of Toronto Mississauga)

The field of Classics is concerned with the languages, literature, philosophy, myth, religion, politics, and history of Greece and Rome. For the linguist, Greek provides an unbroken tradition from the earliest to modern times, while Latin is the parent of the Romance languages.

Students and lovers of literature are introduced to works in every genre which have contributed form, content, and critical standards to every European literature. The philosopher encounters the seminal ideas of European philosophy clearly and simply expressed. The political scientist observes a people passionately interested in the theory and practice of politics who explored the possibilities of elitist governing groups, despotism, and democracy, singly and in a variety of combinations, in national, federal, and imperial contexts. The student of religion discovers a rich variety of religious experience, interesting in itself and for its formative influence upon Christianity and Islam. The historian surveying an entire civilization can compare it with our own and can trace the evolution of a great social experiment from its first creative phase through its mature achievement to its final period of consolidation and obsolescence. Our understanding of the present is enhanced by understanding these formative influences from the past.

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: <http://www.chass.utoronto.ca/classics>.

Undergraduate Coordinator: A.R. Jones, 97 St. George Street (undergrad.classics@utoronto.ca)

Enquiries: 97 St. George Street, Room 101 (416-978-5698)

## Department of Classics Programs

Enrolment in Classical Civilization programs is limited to students who have completed 2 CLA half-courses with a grade of 65 or above; enrolment in the language programs listed below (Classics, Greek, Latin) is open to students who have completed 4 full course equivalents (FCEs) of any kind; no minimum GPA is required. PLEASE NOTE THAT NOT ALL COURSES ARE OFFERED EVERY YEAR. CONSULT THE CURRENT TIMETABLE OR UNDERGRADUATE HANDBOOK FOR CURRENT COURSE OFFERINGS

## NOTES

FCE = "full course equivalent"

1. Approved courses involving the ancient Greek and Roman civilizations in other departments can be substituted for CLA courses; consult the Undergraduate Coordinator.
2. Such CLA substitutions should not exceed 3 FCEs for the Major Classical Civilization program, and 2 FCEs for the Minor Classical Civilization program.
3. GRK or LAT courses may be substituted for 200-level CLA courses: up to 2 FCEs in the Major Classical Civilization program and up to 1 FCE in the Minor Classical Civilization program.

### Classical Civilization (Arts program)

#### Major program:

(6 FCEs)

1. CLA160HI
2. 5.5 FCEs of CLA courses at the 200+ level, including at least 2 FCEs at the 300+ level

#### Minor program:

(4 FCEs)

1. CLA160HI
2. 3.5 FCEs of CLA courses at the 200+ level, including 1 FCE at the 300+ level

### Classics (Arts program)

#### Specialist program:

(13 FCEs)

1. 1 FCE of CLA courses, including CLA160HI
2. 12 FCEs of GRK/LAT courses including 5 FCEs in each of GRK and LAT; 4 FCEs of GRK/LAT courses must be at the 300+ level, and include GRK 330H, LAT 330H, and 1 FCE at the 400-level

#### Major program:

(7 FCEs)

1. 1 FCE of CLA courses, including CLA160HI
2. 6 FCEs of GRK/LAT courses, including 2 FCEs in each of GRK and LAT; 2 FCEs GRK/LAT courses must be at the 300+ level and include GRK/LAT 330HI (both recommended)

### Greek (Arts program)

#### Major program:

(6 FCEs)

1. 1 FCE of CLA courses, including CLA160HI
2. 4 FCEs of GRK courses; 2 FCEs must be at the 300+ level, and include GRK330HI
3. 1 additional FCE of CLA/GRK/LAT courses

#### Minor program:

(4 FCEs)

1. 1 FCE of CLA courses, including CLA160HI
2. 3 FCEs of GRK courses, of which at least 1 must be a 300+ series course

### Latin (Arts program)

#### Major program:

(6 FCEs)

1. 1 FCE of CLA courses, including CLA160HI
2. 4 FCEs of LAT courses; 2 FCEs must be at the 300+ level, and include LAT330HI
3. 1 additional FCE of CLA/GRK/LAT courses

#### Minor program:

(4 FCEs)

1. 1 FCE of CLA courses, including CLA160HI
2. 3 FCEs of LAT courses, of which at least 1 must be a 300+ series course

### Department of Classics Courses

For Distribution Requirement purposes (see page 27), all CLA, GRK, and LAT courses are classified as HUMANITIES courses. See page 33 for Key to Course Descriptions.

#### HUMI99HI/YI First Year Seminar

52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

### Classical Civilization Courses

#### NOTE

CLA courses do not require knowledge of Greek or Latin.

#### CLA160HI Introduction to Classical Studies 39L (formerly CLA160Y1)

An introduction to major themes in the development of Greek and Roman civilization, literature and culture.

Exclusion: CLA160Y1

#### CLA201HI Latin & Greek in Scientific Terminology 39L

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.

#### CLA203HI Science in Antiquity 39L

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.

#### CLA204HI Introduction to Classical Mythology 39L

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.

Exclusion: CLA205Y1

#### CLA206HI Ancient Astronomy 39L

The rise, development, and practical applications of the study of the heavens in Mesopotamia, Egypt, and the Greco-Roman world.

# Classics

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**CLA219HI Women in Antiquity 39L**

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.

Recommended preparation: CLA160YI/230HI/231HI

**CLA220HI Women in Classical Literature 39L**

This course studies the various images of women presented in the literature of Graeco-Roman antiquity.

Recommended preparation: CLA160YI

**CLA230HI Introduction to Greek History 39L**

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.

**CLA231HI Introduction to Roman History 39L**

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 A. D.

**CLA232HI Introduction to Greek Society and Culture 39L**

A general introduction to the society and culture of Ancient Greece. Topics may include literature, art, social customs, gender and sexuality, daily life, and religious festivals (the theatre, the Olympic Games etc.).

**CLA233HI Introduction to Roman Society and Culture 39L**

A general introduction to the society and culture of Ancient Rome. Topics may include literature, art, social customs, gender and sexuality, daily life, and religious festivals (the circus, the gladiatorial games etc.).

**CLA236HI Greek and Roman Epic 39L**

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).

Exclusion: CLA301HI, 302HI

**CLA299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

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## 300-Series Courses

**CLA305HI Theories of Myth 39S**

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: CLA204HI/205YI

**CLA336HI Roman Law (formerly CLA336YI) 39S**

Roman law with emphasis on how it reflected community values. The nature of Roman legal reasoning. The historical development of Roman law against the background of the evolution of Roman society and Roman power.

**CLA362HI Mycenaean and Archaic Greece 39S**

The Greek world from the second millennium B. C. to the end of the Archaic Age

Prerequisite: CLA230HI

**CLA363HI The Rise and Fall of Athens 39S**

The Greek world in the fifth and fourth centuries B. C.

Prerequisite: CLA230HI

Exclusion: CLA345HI

**CLA364HI The Hellenistic World 39S**

The Greek world in the age of Alexander the Great and his successors (336 B. C. to 31 B. C.)

Prerequisite: CLA230HI

CLA365HI Topics in Greek Social History 39S

Topics vary from year to year.

Prerequisite: CLA230HI

**CLA366HI Topics in the Study of Greek History 39S**

Topics vary from year to year.

Prerequisite: CLA230HI

**CLA367HI The Roman Republic 39S**

The Roman world from 510 B. C. to 44 B. C.

Prerequisite: CLA231HI

Exclusion: CLA334HI

**CLA368HI Augustus and the Julio-Claudians 39S**

The Roman world in the age of Augustus and his dynasty (44 B. C. to A. D. 68)

Prerequisite: CLA231HI

Exclusion: CLA351HI

**CLA369HI The Roman Empire 39S**

The Roman world from A. D. 68 to A. D. 378

Prerequisite: CLA231HI

Exclusion: CLA351HI, 352HI

**CLA370HI Topics in Roman Social History 39S**

Topics vary from year to year.

Prerequisite: CLA231HI

**CLA371HI Topics in the Study of Roman History 39S**

Topics vary from year to year.

Prerequisite: CLA231HI

**CLA378HI Late Antiquity (formerly CLA338HI) 39S**

The history and culture of the Roman Empire from Theodosius the Great to Justinian, concentrating on the interplay of modern interpretations and ancient evidence.

Prerequisite: CLA231HI

**CLA382HI The Classical Greek Theatre 39S**

The origins of the theatre, its social function, the dramatic genres, and a study of representative plays.

Prerequisite: CLA232HI/DRM260HI

Exclusion: CLA300YI

**CLA383HI Hellenistic and Roman Theatre 39S**

The development of the theatre, its social function, the dramatic genres, and a study of representative plays.

Prerequisite: CLA232HI/233HI/DRM260HI

Exclusion: CLA300YI

**CLA384HI Greek Literature in Translation 39S**

A selection of Greek literary texts from one or more genres.

Prerequisite: CLA232HI/236HI

**CLA385HI Roman Literature in Translation 39S**

A selection of Roman literary texts from one or more genres.

Prerequisite: CLA233HI/236HI



**CLA386HI Classical Literature in Translation 39S**  
A selection of Greek and Roman literary texts from one or more genres.  
Prerequisite: CLA232HI/233HI/236HI

**CLA387HI Spectacle in the Roman World 39S**  
The role in Roman society and culture of public spectacles, including the chariot-races, the gladiatorial games, executions, and triumphal processions.  
Prerequisite: CLA233HI

**CLA388HI Classical Antiquity and the Cinema 39S**  
A study of the representation of ancient Greece and/ or Rome in cinema.  
Prerequisite: CLA232HI/233HI

**CLA389HI Classical Spaces: Sites and Monuments 39S**  
A close study of one or more sites in the ancient world and the cultural significance of the site(s) in question.  
Prerequisite: CLA230HI/231HI/232HI/233HI

**CLA390HI Topics in the Study of Greek Culture and Society 39S**  
Topics vary from year to year.  
Prerequisite: CLA232HI

**CLA391HI Topics in the Study of Roman Culture and Society 39S**  
Topics vary from year to year.  
Prerequisite: CLA233HI

**CLA398H0/ 399Y0 Independent Experiential Study Project**  
An instructor-supervised group project in an off-campus setting. See page 47 for details.

**400-Series Courses**

**CLA400YI Independent Studies TBA**  
Prerequisite: Permission of Department

**CLA401HI Independent Studies TBA**  
Prerequisite: Permission of Department

**CLA402HI Special Topics in Classical Literature TBA**  
Prerequisite: One FCE in the CLA 300-series, permission of Department

**CLA403HI Special Topics in Ancient History TBA**  
Prerequisite: One FCE in the CLA 300-series, permission of Department

**Greek Courses**

**GRK100YI Introductory Ancient Greek 104S**  
An intensive introduction to Ancient Greek for students who have no knowledge of the language; preparation for the reading of Ancient Greek literature.  
Exclusion: GRK101HI, 102HI. Students who have studied Ancient Greek previously must obtain permission from the Undergraduate Coordinator before enrolling.

**GRK102HI Introductory Ancient Greek: Continuation 52S**

An intensive language course for students who have some Ancient Greek. This course is equivalent to the second part of GRK100YI.  
Exclusion: GRK100YI  
Prerequisite: Some background in Ancient Greek

**GRK200HI Intensive Intermediate Ancient Greek 52S**

Further language training, with readings in Greek prose.  
Prerequisite: GRK100YI/102HI and permission from the Department

**GRK201HI Intermediate Ancient Greek I 52S**

Reading of selections of Ancient Greek prose works with systematic language study.  
Prerequisite: GRK100YI/102HI. Students who have completed an OAC in Ancient Greek must obtain permission from the Undergraduate Coordinator before enrolling.

**GRK202HI Intermediate Ancient Greek II 52S**

Continued language training with readings in Ancient Greek prose and verse.  
Prerequisite: GRK201HI

**Note:**

Frequency of Offering: in each fall-winter session, GRK 330HI will be offered and a minimum of 3 half-courses in each of the 300 and 400-series. In odd-numbered years the courses offered in the 300 and 400-series will normally be drawn from those with odd numbers, and in even-numbered years from those with even numbers.

**GRK330HI Advanced Greek Language Study 39S**

A course designed to enhance language skills. Prose composition, sight translation, stylistic analysis of classical Greek prose.  
Prerequisite: GRK202HI

**GRK340HI Plato I 39S**

Readings from one or more Platonic Dialogues.  
Exclusion: GRK440HI  
Prerequisite: GRK202HI

**GRK341HI Herodotus I 39S**

Readings from Herodotus' Histories.  
Exclusion: GRK441HI  
Prerequisite: GRK202HI

**GRK342HI Thucydides I 39S**

Readings from The Peloponnesian War.  
Exclusion: GRK442HI  
Prerequisite: GRK202HI

**GRK343HI Prose Authors I 39S**

Readings from Greek prose (e.g., oratory, novels).  
Exclusion: GRK443HI  
Prerequisite: GRK202HI

**GRK350HI Epic I 39S**

Readings from Greek epics, including Homer.  
Exclusion: GRK450HI  
Prerequisite: GRK202HI

**GRK351HI Drama I 39S**

Readings from Euripides and Aristophanes.  
Exclusion: GRK451HI  
Prerequisite: GRK202HI

## Classics

<b>GRK352HI</b>	<b>Tragedy I</b>	<b>39S</b>	<b>GRK454HI</b>	<b>Koine Greek II</b>	<b>39S</b>
Readings from Aeschylus and Sophocles. Exclusion: GRK452HI Prerequisite: GRK202HI			Readings from Hellenistic and early Imperial Greek, with emphasis on Jewish and Christian texts. Exclusion: GRK354HI Prerequisite: One FCE in the GRK300-series Co- or prerequisite: GRK 330HI		
<b>GRK353HI</b>	<b>Verse Authors I</b>	<b>39S</b>	<hr/>		
Readings from Greek verse (e.g., elegy, iambics, lyric). Exclusion: GRK453HI Prerequisite: GRK202HI			<b>Latin Courses</b>		
<b>GRK354HI</b>	<b>Koine Greek I</b>	<b>39S</b>	<b>LAT100YI</b>	<b>Introductory Latin</b>	<b>104S</b>
Readings from Hellenistic and early Imperial Greek, with emphasis on Jewish and Christian texts. Exclusion: GRK454HI Prerequisite: GRK202HI			An intensive introduction to Latin for students who have no knowledge of the language; preparation for the reading of Latin literature. Exclusion: LAT101HI, 102HI. Students who have studied Latin previously must obtain permission from the Undergraduate Coordinator before enrolling.		
<b>GRK428YI</b>	<b>Independent Studies</b>	<b>TBA</b>	<b>LAT102HI</b>	<b>Introductory Latin: Continuation</b>	<b>52S</b>
Prerequisite: Permission of Department			An intensive language course for students who have some Latin. This course is equivalent to the second half of LAT 100YI. Exclusion: LAT100YI Prerequisite: Some background in Latin.		
<b>GRK429HI</b>	<b>Independent Studies</b>	<b>TBA</b>	<b>LAT201HI</b>	<b>Intermediate Latin I</b>	<b>52S</b>
Prerequisite: Permission of Department			Reading of selections of Latin prose works with systematic language study. Prerequisite: LAT100YI/102HI. Students who have completed an OAC in Latin must obtain permission from the Undergraduate Coordinator before enrolling.		
<b>GRK440HI</b>	<b>Plato II</b>	<b>39S</b>	<b>LAT202HI</b>	<b>Intermediate Latin II</b>	<b>52S</b>
Advanced readings from one or more Platonic Dialogues. Exclusion: GRK340HI Prerequisite: One FCE in the GRK300-series Co- or prerequisite: GRK330HI			Continued language training with readings in Latin prose and verse. Prerequisite: LAT201HI		
<b>GRK441HI</b>	<b>Herodotus II</b>	<b>39S</b>	<hr/>		
Advanced readings from Herodotus' Histories. Exclusion: GRK341HI Prerequisite: One FCE in the GRK300-series Co- or prerequisite: GRK330HI			<b>300-Series Courses</b>		
<b>GRK442HI</b>	<b>Thucydides II</b>	<b>39S</b>	<b>Notes</b>		
Advanced readings from The Peloponnesian War. Exclusion: GRK342HI Prerequisite: One FCE in the GRK300-series Co- or prerequisite: GRK330HI			Frequency of Offering: in each fall-winter session, LAT 330HI will be offered and a minimum of 3 half-courses in each of the 300 and 400-series. In odd-numbered years the courses offered in the 300 and 400-series will normally be drawn from those with odd numbers, and in even-numbered years from those with even numbers.		
<b>GRK443HI</b>	<b>Prose Authors II</b>	<b>39S</b>	<b>LAT330HI</b>	<b>Advanced Latin Language Study</b>	<b>39S</b>
Advanced readings from Greek prose (e.g., oratory, novels). Exclusion: GRK343HI Prerequisite: One FCE in the GRK300-series Co- or prerequisite: GRK330HI			A course designed to enhance language skills. Prose composition, sight translation, stylistic analysis of Latin prose. Prerequisite: LAT202HI		
<b>GRK450HI</b>	<b>Epic II</b>	<b>39S</b>	<b>LAT340HI</b>	<b>Latin Novelists I</b>	<b>39S</b>
Advanced readings from Greek epics, including Homer. Exclusion: GRK350HI Prerequisite: One FCE in the GRK300-series Co- or prerequisite: GRK330HI			Readings from one or more Latin novelists. Exclusion: LAT440HI Prerequisite: LAT202HI		
<b>GRK451HI</b>	<b>Drama II</b>	<b>39S</b>	<b>LAT341HI</b>	<b>Latin Historians I</b>	<b>39S</b>
Advanced readings from Euripides and Aristophanes. Exclusion: GRK351HI Prerequisite: One FCE in the GRK300-series Co- or prerequisite: GRK330HI			Readings from one or more Latin historians. Exclusion: LAT441HI Prerequisite: LAT202HI		
<b>GRK452HI</b>	<b>Tragedy II</b>	<b>39S</b>	<b>LAT342HI</b>	<b>Latin Orators I</b>	<b>39S</b>
Advanced readings from Aeschylus and Sophocles. Exclusion: GRK352HI Prerequisite: One FCE in the GRK300-series Co- or prerequisite: GRK330HI			Readings from Latin orators, including Cicero. Exclusion: LAT442HI Prerequisite: LAT202HI		
<b>GRK453HI</b>	<b>Verse Authors II</b>	<b>39S</b>			
Advanced readings from Greek verse (e.g., elegy, iambic, lyric). Exclusion: GRK353HI Prerequisite: One FCE in the GRK300-series Co- or prerequisite: GRK330HI					

<b>LAT343HI</b>	<b>Prose Authors I</b>	<b>39S</b>	<b>LAT452HI</b>	<b>Satire II</b>	<b>39S</b>
Readings from Latin prose authors (e. g. biography, letters, philosophy). Exclusion: LAT443HI Prerequisite: LAT202HI			Advanced readings from one or more Latin satirists. Exclusion: LAT352HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI		
<b>LAT350HI</b>	<b>Epic I</b>	<b>39S</b>	<b>LAT453HI</b>	<b>Verse Authors II</b>	<b>39S</b>
Readings from one or more Latin epics, including Virgil. Exclusion: LAT450HI Prerequisite: LAT202HI			Advanced readings from Latin verse (e. g. elegy, lyric, bucolic). Exclusion: LAT353HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI		
<b>LAT351HI</b>	<b>Drama I</b>	<b>39S</b>			
Readings from Latin comedy and/or tragedy. Exclusion: LAT451HI Prerequisite: LAT202HI					
<b>LAT352HI</b>	<b>Satire I</b>	<b>39S</b>			
Readings from one or more Latin satirists. Exclusion: LAT452HI Prerequisite: LAT202HI					
<b>LAT353HI</b>	<b>Verse Authors I</b>	<b>39S</b>			
Readings from Latin verse (e. g. elegy, lyric, bucolic). Exclusion: LAT453HI Prerequisite: LAT202HI					
<b>LAT428YI</b>	<b>Independent Studies</b>	<b>TBA</b>			
Prerequisite: Permission of Department					
<b>LAT429HI</b>	<b>Independent Studies</b>	<b>TBA</b>			
Prerequisite: Permission of Department					
<b>LAT440HI</b>	<b>Latin Novelists II</b>	<b>39S</b>			
Advanced readings from one or more Latin novelists. Exclusion: LAT340HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI					
<b>LAT441HI</b>	<b>Latin Historians II</b>	<b>39S</b>			
Advanced readings from one or more Latin historians. Exclusion: LAT341HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI					
<b>LAT442HI</b>	<b>Latin Orators II</b>	<b>39S</b>			
Advanced readings from Latin orators, including Cicero. Exclusion: LAT342HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI					
<b>LAT443HI</b>	<b>Prose Authors II</b>	<b>39S</b>			
Advanced readings from Latin prose authors (e. g. biography, letters, philosophy). Exclusion: LAT343HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI					
<b>LAT450HI</b>	<b>Epic II</b>	<b>39S</b>			
Advanced readings from one or more Latin epics, including Virgil. Exclusion: LAT350HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI					
<b>LAT451HI</b>	<b>Drama II</b>	<b>39S</b>			
Advanced readings from Latin comedy and/or tragedy. Exclusion: LAT351HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI					

**Cognitive Science & Artificial Intelligence: see University College**

**Cognitive Science: see University College**

**Commerce & Finance: see Commerce, page 40**

# Comparative Literature

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## Faculty

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### Professors Emeriti

L. Dolezel, MA, Ph D, FRSC  
E. Kushner, MA, Ph D, FRSC  
P.W. Nesselroth, MA, Ph D, Ch PA  
B. Stock, AM., Ph D  
M.J. Valdés, MA, Ph D, FRSC, Miembro  
Correspondiente de la Academia Mexicana

### Professor and Director of the Centre

R.J. Le Huenen, L ès L, DES, D en Ph, Ch PA, FRSC, D.Litt  
(hon.)

### Associate Professor and Co-ordinator of Graduate Studies

J.A.Fleming, MA, Ph D

### University Professors

J.E. Chamberlin, BA, Ph D, FRSC, D.Litt (hon.)  
L.A.M. Hutcheon, MA, Ph D, FRSC, D.Litt (hon.)

### Professors

A.A. Iannucci, MA, Ph D  
P. Kleber, MA, Ph D  
T. Lahusen, MA, Ph D  
J. LeBlanc, MA, Ph D

### Associate Professors

V. Ambros, MA, Ph D  
E. Cazdyn, MA, Ph D  
R. Comay, MA, Ph D  
U. Esonwanne, MA, Ph.D  
B. Havercroft, MA, Ph D  
V. Li, MA, Ph.D  
Y. Meng, MA, Ph.D  
J. Ross, MA, Ph D  
S.J. Rupp, MA, Ph D  
J. Zilcosky, MA, Ph D

### Assistant Professors

A. Budde, MA, Ph.D  
E.-L. Jagoe, MA, Ph.D  
A. Komaromi, MA, Ph D  
D. Thomson, MA, Ph.D

### Northrop Frye Visiting Professor

TBA

The Centre for Comparative Literature offers M.A. and Ph.D. degree programs of study in every major area from medieval to contemporary literatures with particular emphasis on literary theory and criticism, to candidates qualified to pursue literary studies involving several languages. Provided the language requirements of the Centre are satisfied, students may pursue theoretical issues that cross traditional disciplines.

Enquiries:

Bader Theatre, 93 Charles Street, 3rd Floor (416-813-4041)

## Comparative Literature Courses

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(See page 33 for Key to Course Descriptions)

### JDC299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details. Offered by the Centre for Comparative Literature in collaboration with the University College Drama Program.

### JUC299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details. Offered by the Centre for Comparative Literature in collaboration with University College.

### JDC400Y1 Dramatic Text and Theatrical Communication

See Drama.

### Note

Undergraduate students may sometimes take one half-course or one full course at the graduate level adapted to meet the needs of undergraduate students. If granted permission the students will then register for the course using the COL490H1/ COL491Y1 designators. For more information contact the Graduate Coordinator: 416-813-4043.

### COL490H1/ Independent Study TBA 491Y1

A scholarly project supervised by a member of staff on a literary topic of common interest including readings, discussions, and papers.

Prerequisite: Permission of the Centre for Comparative Literature

## Faculty

### University Professor Emeritus

S.A. Cook, AM, Ph D, DM, FRS, FRSC (T)

### Professors Emeriti

C.C. Gotlieb, MA, Ph D, D Math, D Eng, FRSC

R.C. Holt, Ph D

J.N.P. Hume, MA, Ph D, FRSC, CM

R.A. Mathon, MSc, PhD (University of Toronto Mississauga)

### Professor and Chair of the Department

C. Boutilier, M Sc, Ph D

### Professor and Vice Chair of the Department

H. Levesque, M Sc, Ph D, FRSC

### Associate Professor and Associate Chair - Graduate Studies

R. Zemel, M Sc, Ph D

### Senior Lecturer and Associate Chair - Undergraduate Studies

J.N. Clarke, M Sc, Ph D (V)

### University Professor

G.E. Hinton, Ph D, FRS, FRSC

### Professors

T.S. Abdelrahman, M Sc, Ph D

F. Bacchus, M Sc, Ph D

R.M. Baecker, M Sc, Ph D

A.B. Borodin, M Sc, Ph D, FRSC

D.G. Corneil, MA, Ph D

S. Easterbrook, B Sc, Ph D

F. Ellen, M Math, Ph D

W.H. Enright, M Sc, Ph D (University of Toronto  
Scarborough)

E. Fiume, M Sc, Ph D

D. Fleet, M S, PhD (University of Toronto Scarborough)

V. Hadzilacos, M Sc, Ph D (University of Toronto  
Scarborough)

E.C.R. Hehner, M Sc, Ph D

G. Hirst, M Sc, Ph D (University of Toronto Scarborough)

K.R. Jackson, M Sc, Ph D

A.D. Jepson, B Sc, Ph D

L. Libkin, MS, Ph D

R. Miller, MS, Ph D

M. Molloy, M Math, Ph D (University of Toronto  
Scarborough)

R. Neal, B Sc, Ph D

J. Mylopoulos, M Sc, Ph D

T. Pitassi, M Sc, Ph D

C.W. Rackoff, SM, Ph D (University of Toronto Mississauga)

S. Toueg, MA, Ph D

D.B. Wortman, M Sc, Ph D

### Associate Professors

R. Balakrishnan, M Sc, Ph D

A.J. Bonner, M Sc, Ph D (University of Toronto Mississauga)

M. Chechik, MS, PhD

C. Christara, MS, Ph D

J.N. Danahy, BLA, URP

S. Dickinson, MS, Ph D

G.S. Graham, M Sc, MA, Ph D (University of Toronto  
Mississauga)

K. Kutulakos, M Sc, PhD

P.J. Marbach, M Sc, Ph D

S. McIlraith, Ph D

G. Penn, MS, Ph D

S. Roweis, BAS, Ph D

K. Singh, MS, Ph D

S. Stevenson, MS, Ph D

### Assistant Professors

M. Brudno, M.Sc. Ph.D

E. DeLara, MS, Ph D

A. Demke-Brown, M Sc, Ph D

Y. Ganjali, Ph D

A. Hertzmann, MS, Ph D

N. Koudas, M Sc, Ph D (University of Toronto  
Scarborough)

R. Lilién, B S, PhD, MD

A. Magen, M Sc, Ph D (University of Toronto Mississauga)

S. Saroiu, MS, PhD (University of Toronto Mississauga)

K.N. Truong, Ph D

### Senior Lecturers

G. Baumgartner, M Sc

M. Craig, M Sc

T. Fairgrieve, M Sc, Ph D

P. Gries, M Eng

D. Horton, M Sc

F. Pitt, M Sc, Ph D

### Lecturers

J. Campbell, M Math

S. Engels, M Math

D. Heap, B Sc, M Sc

K. Reid, M Sc

### Cross Appointed

C. Amza, Ph D

G. Bader, Ph D

C. Beck, Ph D

I. Blake, MA, MA Sc, Ph D

B. Cantwell Smith, MS, Ph D

M. Carter, M Math, Ph D

M. Chignell, MS, Ph D

A. Clement, M Sc, Ph D

M. Consens, Ph D

M.S. Fox, Ph D

B. Frey, Ph D

A. Goel, Ph D

M. Gruninger, Ph D

G. Gulak, M Sc, Ph D

A. Jacobsen, MS, Ph D

B. Li, M Sc, Ph D

D. Lie, Ph D

J. MacLean, Ph D

S. Mann, M Eng, Ph D

E. Mendelsohn M Sc, Ph D (University of Toronto)

# Computer Science

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Scarborough)  
A. Mihailidis, Ph D  
Q. Morris, Ph D  
A. Moshovos, M Sc, Ph D  
M. Shub, Ph D  
G. Steffan, MA Sc, Ph D  
M. Stumm, MS (Math), Ph D  
T. Topaloglou, Ph D  
A.I.F. Urquhart, MA, Ph D  
M. Voss, Ph D  
E. Yu, M Sc, Ph D  
S.G. Zaky, MA Sc, Ph D

## Status Only Faculty

J. Glasgow, Ph D  
I. Jurisica, M Sc, Ph D  
A. Kreinin MSc, Ph D  
Y. Lesperance, MSc, Ph D  
C. Sminchiesescu, MS, Ph D  
D. Terzopoulos, Ph D  
G. Wilson, Ph D

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, 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 much of the intelligent behaviour of people 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.

Many of our Programs combine another field with computer

science, such as Information Systems, Economics, Mathematics, Physics or Statistics. The Programs in Software Engineering and Human-Computer Interaction focus on developing areas of computing.

Some Computer Science courses are offered in the evening, to allow part-time students to pursue our Programs. Introductory courses and some higher-level courses are offered in the summer.

The Professional Experience Year Program (PEY) offers students the opportunity to gain valuable work experience in industry, over a twelve to sixteen-month period. It, and the Co-Op Japan Program, are available to eligible, full time students pursuing their first degree. Please refer to Page 19 for more information.

Associate Chair - Undergraduate Studies: J.N. Clarke

Undergraduate Office: Bahen Building, 40 St. George Street, Room 4252/4254, M5S 2E4 (416-978-6360)

Student Counsellors: Bahen Building, 40 St. George Street, Room 4252/4254 (416-978-6360)

Web site: [www.cs.utoronto.ca](http://www.cs.utoronto.ca)

## Computer Science Programs

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Enrolment is restricted in all CSC Programs. You may request a CSC subject POST in April-June or July-August depending on when you have completed the required 100-level courses listed below. Consult the 2007-2008 Registration Handbook & Timetable for details of how to apply. Admission to restricted Programs depends on performance in the required 100-level courses (listed in Program descriptions) and on cumulative GPA.

Tuition fees for students enrolled in Computer Science Major or Specialist Programs are higher than for other Arts and Science Programs.

## Course Categories

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A number of Computer Science Programs are described based on the following course categories: English Writing Requirement, Basic Courses, Core Courses, and Additional Courses. Also, all CSC courses and a few related ECE/MAT/STA courses are further grouped into subject areas and sub-areas.

## English Writing Requirement

Students in any Specialist Program sponsored by the Department of Computer Science (including Combined Specialist Programs) must complete one credit requiring substantial written work in English. The courses accepted for this purpose are listed below. Courses not on this list do not satisfy the requirement without departmental approval. Students in the Major Program in Computer Science must take one-half credit from the same list. Departments offering these courses have agreed to accept our students, but will not give you special preference in admission. You must satisfy the prerequisite and other requirements listed in this Calendar. Make sure to check that the course you want to take is offered in the year you want it, and to follow the enrolment requirements stated in the Arts and Science Registration Handbook and Timetable. A Transfer credit, whether it is for a specific course on the list below (e.g., “RLG100Y1”) or is a generic credit (e.g., “RLG1\*\*Y1”), must be approved by the Department in order to count towards the writing requirement. Please contact the

# Computer Science

Department for approval. In order to accept such a course, we must assess the role of written work in the course, and determine that it was taught in English, at an English-speaking university.

ANT204Y1; CLA160Y1, any 200- or 300-level except CLA201H1; CSC290H1, CSC300H1; ENG – any 100- or 200-level; GER235Y1, GER251Y1; HIS – any 100- or 200-level; HPS – all courses; HUM101Y1, HUM199H1/Y1; INI115Y1, INI202Y1, INI203Y1, INI204Y1, INI224Y1, INI225Y1, INI235Y1, INI300Y1; ITA240Y1, ITA245Y1, ITA340Y1; JAL328H1; JEF100Y1; UNI250Y1; NEW150Y1, NEW160Y1, higher-level courses in the “Humanism” grouping; NMC101Y1, NMC185Y1, higher-level courses in the “History” grouping; PHL100Y1, PHL101Y1, PHL102Y1, any 200- or 300-level except PHL245H1, PHL246H1, PHL247H1, PHL344H1, PHL345H1, PHL346H1, PHL347H1, PHL349H1, PHL356H1; POL100Y1, POL102Y1, POL103Y1, POL104Y1, POL108Y1, any 200-level except POL242Y1; RLG100Y1, RLG101Y1, any 200-level; TRN200Y1, UNII30Y1, UNI201H1, UNI202H1, UNI310Y1; VIC120Y1; WRT300H1.

Courses not accepted to satisfy the writing requirement include SCII99H1/Y1, SSC199H1/Y1, and the “Research Opportunity Program” courses numbered 299Y1 in any Department. INX199H1/Y1 is not automatically accepted towards the writing requirement. Students may, however, request Department approval for a particular INX199H1/Y1 course.

In addition to completing their English Writing Requirement, Computer Science students do significant writing in a number of their CSC courses. The quality of their writing, as well as its content, is important and is normally part of the grading scheme.

## Basic Courses (5.5 full courses): Courses required in the Major and most Specialists

### First Year:

CSC 108H1/150H1 [Software Engineering sub-area]  
CSC 148H1/150H1 [Software Engineering sub-area]  
CSC 165H1/240H1 [Logic and Complexity sub-area]  
MAT 137Y1/157Y1 [Mathematics sub-area]

### First or Second Year:

CSC 207H1 [Software Engineering sub-area]  
CSC 236H1/240H1 [Logic and Complexity sub-area]  
CSC 258H1 [Core Systems sub-area]  
MAT 223H1/240H1 [Mathematics sub-area]

### Second Year:

CSC 263H1/265H1 [Logic and Complexity sub-area]  
STA 247H1/257H1 [Mathematics sub-area]

### Notes:

1. Students with a strong background in Java or C++ may omit CSC108H1 and proceed directly with CSC 148H1.
2. CSC 150H1 is an accelerated alternative to CSC108H1 and CSC 148H1, intended for students with previous programming experience in a procedural language.
3. CSC 240H1 is an accelerated and enriched version of CSC 165H1 plus CSC 236H1, intended for students with a strong mathematical background, or who develop an interest after taking CSC 165H1.
4. Students may not omit CSC 165H1 and proceed directly to CSC236H1. Either (CSC 165H1 and CSC236H1), or CSC240H1 is required for Program completion. CSC165H1 is different from CSC108H1 in this respect.

5. Consult the Undergraduate Office for advice about choosing among CSC108H1, CSC148H1, and CSC150H1, and between CSC165H1 and CSC240H1.

## Core Courses (3.5 full courses): Courses required in most Specialists

CSC 209H1 [Core Systems sub-area]  
CSC 324H1 [Software Engineering sub-area]  
CSC 336H1/350H1 [Numerical Analysis sub-area]  
CSC 343H1 [Information Systems sub-area]  
CSC 363H1/365H1 [Logic and Complexity sub-area]  
CSC 369H1 [Core Systems sub-area]  
CSC 373H1/375H1 [Logic and Complexity sub-area]

### Notes

1. CSC 350H1 is required in the Computer Science Specialist Program – Foundations Option; students who take CSC 336H1 and later decide to enrol in the Foundations Option will be required to take extra credits as determined by the Undergraduate Program Director.
2. MAT 237Y1/257Y1 is a direct or indirect prerequisite for a number of CSC courses. MAT 237Y1/257Y1 is also required in most Computer Science Programs. Students are advised to take MAT 237Y1/257Y1 unless they have planned their Program and course selection carefully and are certain that they will not need it.

## Additional Courses

### Systems Area

- I. *Core Systems*  
CSC 354H1, 372H1; ECE 385H1  
CSC 458H1, 469H1, 488H1; ECE 489H1
- II. *Software Engineering*  
CSC 301H1, 302H1  
CSC 410H1, 465H1
- III. *Information Systems*  
CSC 309H1, 310H1  
CSC 443H1

### Human Factors and Graphics Area

- I. *Human Factors*  
CSC 300H1, 318H1  
CSC 428H1, 454H1
- II. *Graphics*  
CSC 320H1  
CSC 418H1

### Artificial Intelligence Area

- I. *Reasoning*  
CSC 384H1  
CSC 486H1
- II. *Language*  
CSC 401H1, 485H1
- III. *Vision*  
CSC 420H1, 487H1
- IV. *Learning*  
CSC 321H1  
CSC 411H1, 412H1

### Foundations Area

- I. *Logic and Complexity*  
CSC 330H1  
CSC 438H1, 448H1
- II. *Numerical Analysis*  
CSC 351H1  
CSC 446H1, 456H1

### III. Mathematics

MAT 224HI/240HI, 237YI/257YI; STA 248HI

#### **Computer Science (Science Program)**

Consult Student Counsellor, Department of Computer Science.

Enrolment in the Specialist and Major Programs is limited. Admission requires (1) 65% in CSC 148HI/150HI, (2) either 60% in MAT 137YI/157YI or 65% in CSC 165HI/240HI, and (3) a minimum CGPA of 2.0. Students who not meet these requirements on the first attempt will be considered on a case-by-case basis.

#### **Specialist Program**

(14 full courses or their equivalent, including at least one 400-series course)

1. One full course English Writing Requirement.
2. All Basic Courses and Core Courses (9 full courses).
3. MAT 237YI/257YI.
4. Six half courses from the Additional Courses, with at least two 400-level half courses.

#### **Notes:**

1. This flexible Program allows students to concentrate in one or more areas for which there is currently no other Program. Students are strongly encouraged to seek advice from a faculty member in the Department of Computer Science in order to ensure that their course selection meets their academic goals. This is particularly important for students planning to apply to graduate school.

#### **Major Program**

(8 full courses or their equivalent, including at least two 300+ series courses)

1. One half course English Writing Requirement.
2. All Basic Courses (5.5 full courses).
3. Four 300+ level half courses from the Core Courses and/or Additional Courses.

#### **Notes:**

1. CSC 209HI is a direct or indirect prerequisite for a number of CSC courses. Students who intend to take one of these courses will also have to take CSC 209HI as an additional half course.

#### **Computer Science – Artificial Intelligence Option (Science Program)**

Consult Student Counsellor, Department of Computer Science.

Enrolment in this Program is limited. Admission requirements are the same as for the Specialist Program in Computer Science.

#### **Specialist Program**

(13.5 full courses or their equivalent, including at least one 400-series course)

1. One full course English Writing Requirement.
2. All Basic Courses and Core Courses (9 full courses).
3. One full credit from MAT 237YI/257YI, MAT 224HI/240HI/247HI, STA 248HI/261HI.
4. Five half courses from the Artificial Intelligence area, with at least one half course from each of three different Artificial Intelligence sub-areas.

#### **Notes:**

1. Students may be interested in taking UNI250Y1 to satisfy their English Writing Requirement. This course can be taken in first year.
2. The additional half course CSC 320HI is recommended for students interested in taking CSC 420HI.
3. The additional half course CSC 330HI is recommended for students interested in taking CSC 486HI.

#### **Computer Science – Foundations Option (Science Program)**

Consult Student Counsellor, Department of Computer Science.

Enrolment in this Program is limited. Admission requirements are the same as for the Specialist Program in Computer Science.

#### **Specialist Program**

(14 full courses or their equivalent, including at least one 400-series course)

1. One full course English Writing Requirement.
2. All Basic Courses and Core Courses (9 full courses), except that students must take CSC 350HI rather than CSC 336HI.
3. MAT 224HI/240HI, 237YI/257YI.
4. MAT 301HI/315HI/334HI/344HI/401HI.
5. CSC 351HI.
6. CSC 438HI/448HI/465HI.
7. Two half courses from the Additional Courses, with at least one 400-level half course – these may include any half course not taken to satisfy the requirement CSC 438HI/448HI/465HI.

#### **Computer Science – Information Systems Option (Science Program)**

Consult Student Counsellor, Department of Computer Science.

Enrolment in this Program is limited. Admission requirements are the same as for the Specialist Program in Computer Science.

#### **Specialist Program**

(14 full courses or their equivalent, including at least one 400-series course)

1. One full course English Writing Requirement.
2. All Basic Courses and Core Courses (9 full courses).
3. MAT 237YI/257YI.
4. CSC 309HI, 310HI, CSC 301HI/318HI.
5. CSC 443HI.
6. (CSC 384HI, 486HI) / (STA 248HI, CSC 411HI)

#### **Computer Science – Software Engineering Option (Science Program)**

Consult Student Counsellor, Department of Computer Science.

Enrolment in this Program is limited. Admission requirements are the same as for the Specialist Program in Computer Science.

#### **Specialist Program**

(13.5 full courses or their equivalent, including at least one 400-series course)

1. One full course English Writing Requirement.
2. All Basic Courses and Core Courses (9 full courses).



3. CSC301HI, CSC302HI, CSC 318HI,.
4. Two of CSC 354HI, 372HI, 320HI/321HI/330HI/384HI, 401HI, 410HI, 454HI, 465HI; ECE385HI.
5. Two of CSC 309HI, 418HI, 443HI, 458HI, 469HI; CSC 488HI/ECE 489HI.
6. The courses chosen from groups 4 and 5 must include at least two half courses at the 400 level.

**Notes:**

1. This Program does not lead to certification as a Professional Engineer.
2. Students in this Program are strongly encouraged to consider participating in the Professional Experience Year (PEY) Program.
3. It is recommended, although not necessary, to take CSC 301HI and 302HI in sequence in third year. Students who do so will likely defer some other third year course until fourth year.

**Computer Science & Economics (Science Program)**

Consult the Undergraduate Secretary, Department of Economics or Student Counsellor, Department of Computer Science.

Enrolment in this Program is limited. Admission requires: (1) 70% in ECO 100Y1, (2) 65% in CSC 148HI/150HI, (3) either 60% in MAT 137Y1/157Y1 or 65% in CSC165HI/CSC240HI, and (4) a minimum CGPA of 2.0. The requirements of the two Departments, Computer Science and Economics, must both be met.

**Specialist Program**

(17 full courses or their equivalent, including at least one 400-series course)

**First Year:**

CSC 165HI/240HI, (107HI/108HI, 148HI)/150HI; ECO 100Y1; MAT 137Y1/157Y1 (See the Notes following the list of Basic Courses in the Course Categories above.)

**Higher Years:**

1. One full course English Writing Requirement (See the Course Categories above.)
2. CSC 207HI, 236HI/240HI, 258HI, 263HI/265HI, 324HI, 336HI/350HI.
3. ECO 206Y1, 208Y1, 325HI, 326HI/, 327Y1, 416HI/418HI.
4. APM 236HI, MAT (223HI, 224HI)/240HI, 235Y1/237Y1/257Y1.
5. ECO 227Y1/STA (257HI, 261HI).
6. One and a half courses from the following groups, of which at least one half-course must be from each of Groups A and B:

**Group A:**

CSC 343HI, 369HI, 458HI

**Group B:**

Any 300+ series ECO course

**Group C:**

APM 462HI; CSC 301HI, 302HI, 351HI, 354HI, 363HI/365HI, 373HI/375HI, 401HI, 454HI; ECE 385HI; STA 322HI, 347HI, 437HI, 457HI

**Computer Science & Mathematics (Science Program)**

Consult Student Counsellor, Department of Computer Science or Professor S.A. Cook, Department of Computer Science.

Enrolment in this Program is limited. Admission requirements are the same as for the Specialist Program in Computer Science.

**Specialist Program**

(15.5 full courses or their equivalent, including at least one 400-series course)

**First Year:**

CSC (108HI, 148HI)/150HI; MAT 157Y1, 240HI (See the Notes following the list of Basic Courses in the Course Categories above.)

**First or Second Year:**

CSC 240HI, 258HI, 207HI; one full course English Writing Requirement (See the Course Categories above.)

**Second Year:**

CSC 265HI; MAT 247HI, 257Y1, 267HI; STA 257HI/352Y1

**Third Year:**

CSC 324HI, 365HI, 375HI

**Third or Fourth Years:**

1. MAT 327HI, 347Y1, 354HI, 357HI.
2. One of CSC 438HI, 448HI, 465HI; MAT 443HI.
3. CSC 350HI, 351HI.
4. One of CSC 401HI, 418HI, 420HI, 428HI, 443HI, 456HI, 458HI, 469HI, 485HI, 486HI, 487HI, 488HI; ECE 489HI.
5. APM 351Y1/MAT 457Y1.
6. One of APM 461HI; MAT 344HI, 464HI, 477HI.

**Notes:**

1. It is recommended that PHY 140Y1 be taken.

**Computer Science & Physics (Science Program)**

Consult Student Counsellor, Department of Computer Science, or Associate Chair (Undergraduate Studies), Department of Physics.

Enrolment in this Program is limited. Admission requirements are the same as for the Specialist Program in Computer Science. NOTE: Students in this Program should consult one or both Departments during the spring of each year, to ensure that they choose courses appropriate to their intended careers.

**Specialist Program**

(17.5 full courses or their equivalent, including at least one 400-series course)

**First Year:**

CSC (108HI, 148HI)/150HI; MAT 137Y1/157Y1, 223HI/240HI; PHY 140Y1 (See the Notes following the list of Basic Courses in the Course Categories above.)

**First or Second Year:**

CSC 240HI, 207HI; STA 247HI; one full course English Writing Requirement (See the Course Categories above.)

**Second Year:**

CSC 263HI/265HI; MAT 237Y1/257Y1, 244HI/267HI; PHY 225HI, 251HI, 252HI, 255HI, 256HI

**Third Year:**

APM 346HI; CSC 324HI, 350HI; MAT 334HI; PHY 351HI, 352HI, 355HI

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Third or Fourth Years:

1. CSC 351HI, 363HI/365HI/373HI/375HI
2. PHY 457HI/459HI/460HI
3. CSC 401HI/418HI/420HI/428HI/443HI/458HI/469HI/485HI/486HI/487HI/488HI/ECE 489HI
4. 1.5 courses from the 300-/400-level lab courses as described in the Notes to the Physics Specialist Program.

## **Computer Science & Statistics (Science Program)**

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Consult Student Counsellor, Department of Computer Science, or Undergraduate Secretary, Department of Statistics.

Enrolment in this Program is limited. Admission requirements are the same as for the Specialist Program in Computer Science.

## **Specialist Program**

(14.5 full courses or their equivalent, including at least one 400-series course)

First Year:

CSC (108HI, 148HI)/150HI, 165HI/240HI; MAT 137Y1/157Y1 (See the Notes following the list of Basic Courses in the Course Categories above.)

First or Second Year:

1. CSC 236HI/240HI, 258HI, 207HI
2. MAT (223HI, 224HI)/(240HI, 247HI)
3. One full course English Writing Requirement (See the Course Categories above.)

Second Year:

CSC 263HI/265HI; STA 257HI, 261HI; MAT 237Y1/257Y1

Third Year:

CSC 324HI, 350HI, 351HI, 363HI/365HI, 373HI/375HI; STA 302HI, (347HI, 447HI)/352Y1

Third or Fourth Years:

1. One of CSC 418HI, 443HI, 456HI, 458HI, 469HI, 487HI; MAT 443HI
2. STA 437HI/442HI/457HI
3. Two of CSC 310HI, 321HI, 354HI, 401HI, 411HI, 412HI; STA 410HI

## **Human-Computer Interaction (Science Program)**

Consult Student Counsellor, Department of Computer Science.

Enrolment in this Program is limited. Admission requires (1) 65% in CSC 148HI/150HI, (2) either 60% in MAT 135Y1/137Y1/157Y1 or 65% in CSC 165HI/CSC240HI, and (3) a minimum CGPA of 2.0. Students who do not meet these requirements on the first attempt will be considered on a case-by-case basis.

## **Specialist Program**

(15 full courses or their equivalent, including at least one 400-series course)

First Year:

1. CSC 165HI/240HI, (108HI, 148HI)/150HI (See the Notes following the list of Basic Courses in the Course Categories above.)
2. MAT 135Y1/137Y1/157Y1,
3. SOC 101Y1,

First or Second Year:

CSC 207HI, 236HI/240HI; PSY100HI; one full course English Writing Requirement (See the Course Categories above.)

Second Year:

1. CSC 258HI, 263HI/265HI; STA 247HI
2. MAT 223HI/240HI; SOC 200HI

Third Year:

1. CSC 300HI, 318HI
2. CSC 324HI/343HI
3. STA 248HI/PSY (201HI, 202HI)/SOC (202HI, 300HI)
4. PSY 270HI, 280HI

Third or Fourth Year:

1. CSC 363HI/365HI/373HI/375HI, 428HI
2. Two of CSC 302HI, 418HI/487HI/420HI, 401HI/485HI/486HI/411HI, 443HI/458HI/469HI
3. WDW 260HI

## **Notes:**

1. Students in this Program should consult the Department of Computer Science at least annually to discuss their choice of courses, especially if they plan on graduate study.
2. Students who may be interested in other Programs sponsored by the Department of Computer Science must take MAT 137Y1/157Y1 and not MAT 135Y1.
3. It is recommended that you take a physical science course such as PHY 138Y1/140Y1.
4. It is strongly recommended that you take at least one half-course in Human Factors or Ergonomics offered by the Department of Mechanical and Industrial Engineering, such as MIE 343HI, 448HI, 449HI.
5. Other recommended courses include: CSC 309HI, 369HI, 454HI, 469HI; SOC 387Y1; PSY 305HI, 312HI, 370HI, 371HI, 372HI, 375HI, 312HI; JLP 374HI

For advice on course choice and assistance in enrolment consult the Department of Computer Science.

## **Bioinformatics and Computational Biology – see Life Sciences: Biochemistry**

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## **Cognitive Science & Artificial Intelligence - See University College Programs**

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## **Linguistics and Computing- See Linguistics**

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## **Computer Science Courses**

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See page 33 for Key to Course Descriptions

For Distribution Requirement purposes (see page 27), all CSC courses are classified as SCIENCE courses.

## **Enrolment notes**

NOTE: The University of Toronto Mississauga computer science Minor subject POST is not recognized as a restricted CS subject POST for St. George courses enrolments.

NOTE: No late registration is permitted in any CSC course after the first two weeks of classes.

Enrolment in most CSC courses above 100-level is restricted. Consult the Calendar or the Arts and Science Registration Handbook and Timetable for details.

## **Prerequisites and exclusions**

Prerequisites and exclusions are enforced. Please refer to the 2006-2007 Registration Handbook and Timetable for prerequisite waiver deadlines.

## Dropping down from enriched to regular courses

Students may go to their college to drop down from enriched courses to regular courses. The courses are as follows: from CSC148HI to CSC108HI, from CSC150HI to CSC108HI, from CSC240HI to CSC165H (or to CSC236HI if you have already passed CSC165HI), from CSC265HI to CSC263HI, from CSC365HI to CSC363HI, and from CSC375HI to CSC373HI.

Drop down deadlines:

Fall session – October 5, 2007

Winter session – February 1, 2008

## 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 (BA4252/4254) for advice on choosing courses. Ask for advice also even if you don't have transfer credits yet but are considering degree study at the University of Toronto. Without advice, you risk poor course choice or other adverse consequences.

## INX199HI/YI First-Year Seminar 52S

## SCII99HI/YI First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

## CSCI04HI The Why and How of Computing 26L, 13T

An introduction to computing for non-computer scientists. History of computing machinery; representation of data and their interaction with operations; hardware, software, operating systems; problem solving and algorithms; social issues in computing; a gentle introduction to programming. This course is an introduction to becoming actively engaged with computing, not a tutorial on using particular computer applications. Exclusion: SMC104HI; VIC104HI; any CSC course.

Choosing first year courses: To help you select the programming course that is right for you, see [www.cs.toronto.edu/~campbell/firstyear](http://www.cs.toronto.edu/~campbell/firstyear).

## CSCI08HI Introduction to Computer Programming 39L, 12T, 12P

Structure of computers; the computing environment. Programming in a language such as Python. Program structure: elementary data types, statements, control flow, functions, classes, objects, methods, fields. Lists; searching, sorting and complexity. Practical (P) sections consist of supervised work in the computing laboratory. These sections are offered when facilities are available, and attendance is required. Exclusion: CSC107HI, 120HI, 139HI, 148HI, 149HI, 150HI. NOTE: You may not take this course after or concurrently with CSC148HI, but you may take CSC148HI after CSC108HI. Prerequisite: Grade 12 U/OAC mathematics.

## CSCI20HI Computer Science for the Sciences 26L, 12P

An introduction to computer science for students in other sciences, with an emphasis on gaining practical skills. Introduction to programming; web programming; database design; software tools; examples and exercises taken from the sciences. At the end of this course you will be able to develop computer tools for scientific applications, such as the structuring and analysis of experimental data. Practical (P) sections consist of supervised work in the computer laboratory. No programming experience is necessary. Students who wish to do more can progress directly to CSC150HI. Exclusion: any CSC course.

## CSCI48HI Introduction to Computer Science 26L, 13T, 12P

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 in a language such as Python, C++, or Java, as provided by CSC108HI.

Students who already have this background may consult the Computer Science Undergraduate Office for advice about skipping CSC108HI. Practical (P) sections consist of supervised work in the computing laboratory. These sections are offered when facilities are available, and attendance is required. Students may go to their college to drop down from CSC148HI to CSC108HI. See above for the drop down deadline.

Exclusion: CSC139HI, 149HI, 150HI; you may not take this course after taking more than two CSC courses at the 200-level or higher.

Prerequisite: CSC108HI; two of: Geometry and Discrete Mathematics, Advanced Functions and Introductory Calculus or Mathematics of Data Management OR two of: OAC Calculus, Algebra & Geometry or Finite Mathematics.

## CSCI50HI Accelerated Introduction to Computer Science 39L, 13T, 12P

An accelerated course covering object-oriented topics from CSC108HI (classes, objects, methods and fields, and program design), as well as all the material of CSC148HI. Suitable for students with a solid programming background in Turing, C, Scheme, or a similar language, who are willing to accept a heavier workload than in CSC108HI and CSC148HI.

Exclusion: CSC107HI, 108HI, 139HI, 148HI, 149HI; you may not take this course after taking more than two CSC courses at the 200-level or higher.

Prerequisite: Two of: Geometry and Discrete Mathematics, Advanced Functions and Introductory Calculus or Mathematics of Data Management OR two of: OAC Calculus, Algebra & Geometry or Finite Mathematics; and one year of programming in a procedural language. Students should thoroughly understand arrays, searching, sorting, functions/procedures/subprograms, arguments and parameters, and modular design.

Students may go to their college to drop down from CSC150HI to CSC108HI. See above for the drop down deadline.

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## **CSCI65HI Mathematical Expression and Reasoning for Computer Science 26L, 13T**

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. Unified approaches to programming and theoretical problems. Representation of floating point numbers and introduction to numerical computation.

Exclusion: CSC236HI, 238HI, 240HI; MAT102H5 (University of Toronto Mississauga); You may not take this course after taking more than two CSC courses at the 200-level or higher.

Prerequisite: CSC108HI/(CSC148HI/150HI taken concurrently); U Advanced Functions and Introductory Calculus, and one of U Geometry and Discrete Mathematics or U Mathematics of Data Management OR OAC Calculus and one of Algebra & Geometry or Finite Mathematics.

Recommended preparation: first term of MAT135Y1/137Y1/157Y1.

NOTE: It is recommended that CSC148HI/150HI and CSC165HI/240HI be taken at the same time, since each course relies on material from the other. If you take one before the other, it is preferable to take CSC148HI/150HI first. In any case, you will be at a modest disadvantage in the first of the two courses, and will be expected to pick up the relevant material from the other course on your own.

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### Note

To enrol in any CSC course at the 200-level or higher, you must have a cumulative GPA of at least 2.50 (3.00 for 300- and 400-level courses) or be enrolled in a restricted subject POSSt sponsored by the Department of Computer Science. The University of Toronto at Mississauga Computer Science Minor is not a restricted subject POSSt. If you are in your first year of degree studies, the GPA requirement does not apply.

## **CSC207HI Software Design 26L, 13T**

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, build management, unit testing, refactoring, design patterns, advanced IDE usage, regular expressions, markup languages, parsing using finite state machines, and reflection.

Prerequisite: CSC148HI/150HI; CGPA 2.5/enrolment in a CSC subject POSSt.

Co-prerequisite: CSC165HI/240HI/(148HI as given before Fall 2003).

## **CSC209HI Software Tools and Systems Programming 26L, 13T**

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.

Exclusion: CSC372HI, 408HI, 369HI, 468HI, 469HI.

Prerequisite: CSC207HI/270HI/enrolment in Bioinformatics and Computational Biology (BCB) subject POSSt; CGPA 2.5/enrolment in a CSC subject POSSt.

## **CSC236HI Introduction to the Theory of Computation 26L, 13T**

The application of logic and proof techniques to Computer Science. Mathematical induction; correctness proofs for iterative and recursive algorithms; recurrence equations and their solutions (including the "Master Theorem"); introduction to automata and formal languages.

Exclusion: CSC238HI, 240HI.

Prerequisite: CSC148HI/150HI, 165HI/(148HI as given before Fall 2003); CGPA 2.5/enrolment in a CSC subject POSSt.

## **CSC240HI Enriched Introduction to the Theory of Computation 26L, 13T**

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 CSC236HI, together with selected material from CSC165HI, 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 CSC165HI or CSC236HI may be covered in more detail in this course, and some additional topics may also be covered.

Exclusion: CSC236HI, 238HI.

Prerequisite: OAC Calculus and one of Algebra & Geometry or Finite Mathematics OR U Advanced Functions and Introductory Calculus, and one of U Geometry and Discrete Mathematics or U Mathematics of Data Management, with high grades.

Recommended preparation: first term of MAT137Y1/157Y1.

Co-requisite: CSC148HI/150HI; CGPA 2.5/enrolment in a CSC subject POSSt.

NOTE: Students may go to their college to drop down from CSC240HI to CSC165HI (or to CSC236HI if you have already passed CSC165HI). See above for the drop down deadline.

## **CSC258HI Computer Organization 26L, 9P, 10T**

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.

Exclusion: CSC257HI as given before 1985.

Prerequisite: CSC148HI/150HI, 165HI/240HI/(148HI as given before Fall 2003); CGPA 2.5/enrolment in a CSC subject POSSt.

## **CSC260HI Introduction to Scientific, Symbolic, and Graphical Computation 26L, 13T**

Problems in transforming continuous mathematical models to discrete computational models. Inadequacy of naive computer solutions, and techniques to remedy inadequacies. Symbolic computation, plotting, 3-D graphics, and conventional programming languages. Intended for students from computer science, sciences and mathematics: for computer scientists, introduction to design and implementation of robust algorithms; for scientists, techniques in transforming scientific problems into computational solutions; for mathematicians, insight into

differences between mathematical models and computational solutions.

Exclusion: CSC160HI as taught in Spring 1992; after taking CSC270HI/CSC263HI/265HI and any 300-/400-level CSC course, you may not take CSC260HI without Departmental permission in writing.

Prerequisite: CSC108HI/computing experience, as from a good high school programming course; CGPA 2.5/enrolment in a CSC subject POST.

Co-requisite: MAT135Y1/137Y1/157Y1, 223HI/240HI.

### **CSC263HI Data Structures and Analysis 26L, 13T**

Algorithm analysis: worst-case, average-case, and amortized complexity. 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, implementation, and comparison of data structures. Introduction to lower bounds.

Exclusion: CSC265HI, 378HI.

Prerequisite: CSC207HI/270HI, 236HI/238HI/240HI; STA247HI/255HI/257HI; CGPA 2.5/enrolment in a CSC subject POST.

### **CSC265HI Enriched Data Structures and Analysis 26L, 13T**

Algorithm analysis: worst-case, average-case, and amortized complexity. Standard abstract data types, such as graphs, dictionaries, priority queues, and disjoint sets. A variety of advanced data structures for implementing these abstract data types, such as AVL trees, self-adjusting data structures, perfect hashing, and binomial heaps. Design and comparison of data structures. This course covers the same topics as CSC263HI, 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 CSC263HI may be covered in more detail in this course, and some additional topics may also be covered. Students without the exact course prerequisites but with a strong mathematical background are encouraged to consult the Department about the possibility of taking this course.

Exclusion: CSC263HI, 378HI.

Prerequisite: CSC207HI/270HI, 240HI; STA247HI/255HI/257HI; CGPA 2.5/enrolment in a CSC subject POST.

NOTE: Students may go to their college to drop down from CSC265HI to CSC263HI. See above for the drop down deadline.

### **CSC290HI Communication Skills for Computer Scientists 39L**

Targeted instruction and significant practice in the communications required for careers in computer science. The curriculum covers written, oral, and interpersonal communication. Students will hand in short pieces of writing each week, will make oral presentations several times in the semester, and will work together in simulated project meetings and other realistic scenarios of pair and small group interaction. Prerequisite: enrolment in a CSC subject POST.

### **CSC300HI Computers and Society 26L, 13T**

Privacy and Freedom of Information; recent Canadian legislation and reports. Computers and work; employment levels, quality of working life. Electronic fund transfer systems; transborder data flows. Computers and bureaucratization. Computers in the home; public awareness about computers. Robotics.

Professionalism and the ethics of computers. The course is designed not only for science students, but also those in social sciences or humanities.

Exclusion: PSCD03H (University of Toronto Scarborough)

Prerequisite: Any half-course on computing; CGPA 3.0/enrolment in a CSC subject POST.

### **CSC301HI Introduction to Software Engineering 26L, 13T**

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 UML; design patterns and refactoring; security, discussion of ethical issues, and professional responsibility.

Prerequisite: CSC209HI, CSC263HI; CGPA 3.0/enrolment in a CSC subject POST

### **CSC302HI Engineering Large Software Systems 26L, 13T**

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 modeling and analysis.

Prerequisite: CSC301HI; CGPA 3.0/enrolment in a CSC subject POST

### **CSC309HI Programming on the Web 26L, 13T**

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. Assignments involve increasingly more complex web-based programs. Guest lecturers from leading e-commerce firms will describe the architecture and operation of their web sites.

Prerequisite: CSC209HI, 343HI/228HI; CGPA 3.0/enrolment in a CSC subject POST.

### **CSC310HI Information Theory 26L, 13T**

Measuring information. The source coding theorem. Data compression using ad hoc methods and dictionary-based methods. Probabilistic source models, and their use via Huffman and arithmetic coding. Noisy channels and the channel coding theorem. Error correcting codes, and their decoding by algebraic and probabilistic methods.

Prerequisite: CSC148HI/150HI/260HI; STA247HI/255HI/257HI/107HI; MAT135Y1/137Y1, MAT223HI/240HI; CGPA 3.0/enrolment in a CSC subject POST.

### **CSC318HI The Design of Interactive Computational Media 26L, 13T**

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. Enrolment limited, but non-computer scientists welcome.

Prerequisite: Any CSC half-course; CGPA 3.0/enrolment in a CSC subject POST.

# Computer Science

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Recommended preparation: CSC300HI provides useful background for work in CSC318HI, so if you plan to take CSC300HI then you should do it before CSC318HI.

## **CSC320HI Introduction to Visual Computing 26L, 13P**

A unified introduction to image synthesis and image analysis aimed at students with an interest in computer graphics, computer vision or the visual arts. Focus on three major topics: (1) visual computing principles - computational and mathematical methods for creating, capturing, analyzing and manipulating digital photographs (raster algorithms, image acquisition, basic image processing, image warping, anti-aliasing); (2) digital special effects - applying these principles to create special effects found in movies and commercials; (3) visual programming - using C/C++ and OpenGL to create graphical user interfaces for synthesizing and manipulating photographs. Prerequisite: CSC209HI/270HI/(207HI, proficiency in C or C++); MAT137Y1, MAT223HI/240HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC321HI Introduction to Neural Networks and Machine Learning 26L, 13P**

Supervised neural networks: the perceptron learning procedure, the backpropagation learning procedure and its applications. Elaborations of backpropagation: activation and error functions, improving speed and generalization, Bayesian approaches. Associative memories and optimization: Gibbs sampling, mean field search. Representation in neural networks: distributed representations, effects of damage, hierarchical representations. Unsupervised neural networks: competitive learning, Boltzmann machines, sigmoid belief nets. Prerequisite: CSC207HI/270HI; MAT137Y1, MAT223HI/240HI; STA247HI/255HI/257HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC324HI Principles of Programming Languages 26L, 13T**

Major topics in the development of modern programming languages. Syntax specification, the evolution of programming languages (including abstract data types and object orientation, and contributions of C++ to language design) design and implementation of subprograms (including parameter passing techniques, and scope and lifetime of variables), run-time storage management (including garbage collection), and programming paradigms. Two non-procedural programming paradigms: functional programming (illustrated by languages such as Lisp, Scheme, ML or Haskell) and logic programming (illustrated by languages such as Prolog, XSB or Coral). Exclusion: CSC248HI. Prerequisite: CSC207HI/270HI, 236HI/238HI/240HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC330HI Logical Specifications 26L, 13T**

Logic and its use as a declarative language in computer science. Syntax and semantics of propositional and predicate calculus. Proving entailment and non-entailment rigorously. Formal derivations. Satisfiability. Applications, including information systems, program verification, artificial intelligence, software engineering. Computational tools, including Prolog. Other logics. Exclusion: CSC230HI. Prerequisite: CSC236HI/238HI/240HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC336HI Numerical Methods 26L, 13T**

The study of computational methods for solving problems in linear algebra, non-linear equations, approximation, integration, and ordinary differential equations. The aim is to give students a basic understanding of both floating-point arithmetic and the methods used to solve numerical problems as well as a familiarity with the types of subroutines found in typical software packages. Exclusion: ACT323HI, 335HI; CSC350HI, 351HI. Prerequisite: CSC207HI/270HI/(260HI, 148HI/150HI); MAT133Y1(70%)/135Y1/137Y1/157Y1, 223HI/240HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC343HI Introduction to Databases 26L, 13T**

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. Exclusion: CSC434HI. Prerequisite: CSC 263HI/265HI/(228HI, 238HI)/378HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC350HI Numerical Algebra and Optimization 26L, 13T**

Floating-point arithmetic. The efficiency and stability of solution techniques for systems of linear equations and least squares problems, including LU- and QR-based methods. Eigenvalue and eigenvector calculations. Algorithms for systems of non-linear equations and optimization problems, including linear programming. Exclusion: CSC336HI; ACT323HI, 335HI. Prerequisite: CSC 207HI/270HI/(260HI, 148HI/150HI); MAT223HI/240HI, 237Y1/257Y1; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC351HI Numerical Approximation, Integration and Ordinary Differential Equations 26L, 13T**

Analysis of methods for approximation, integration and the solution of ordinary differential equations. Emphasis on the convergence and stability properties of the algorithms, rather than on their implementation. Exclusion: ACT323HI, 335HI; CSC336HI. Prerequisite: CSC350HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC354HI Discrete-Event Simulation and Modelling 26L, 13T**

Simulation and mathematical analysis of models of queuing systems. Concentration on dynamic, stochastic, discrete-event systems. Simulation topics: selecting input probability distributions, generating random numbers and random variates, output data analysis for one or more system configurations, variance reduction techniques. Analysis topics: queuing characteristics, transient and steady-state behaviour, performance measures, the M/M/1 queue in detail, some non-Markovian queues. Prerequisite: CSC 209HI/270HI; MAT137Y1; STA 247HI/255HI/257HI, 248HI/250HI/261HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC363HI Computational Complexity and Computability 26L, 13T**

Introduction to the theory of computability: Turing machines, Church's thesis, computable and noncomputable functions, recursive and recursively enumerable sets, reducibility.

Introduction to complexity theory: models of computation, P, NP, polynomial time reducibility, NP-completeness, further topics in complexity theory.

Exclusion: CSC364HI, 365HI.

Prerequisite: CSC236HI/238HI/240HI; CGPA 3.0/enrolment in a CSC subject POST.

NOTE: Although the courses CSC363HI and CSC373HI can be taken in any order, we recommend that CSC373HI be taken first.

## **CSC365HI Enriched Computational Complexity and Computability 26L, 13T**

This course covers the same topics as CSC363HI, 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 CSC363HI may be covered in more detail in this course, and some additional topics may also be covered. Students without the exact course prerequisites but with a strong mathematical background are encouraged to consult the Department about the possibility of taking this course.

Exclusion: CSC363HI, 364HI.

Prerequisite: CSC240HI; CGPA 3.0/enrolment in a CSC subject POST.

NOTE: Students may go to their college to drop down from CSC365HI to CSC363HI. See above for the drop down deadline.

NOTE: Although the courses CSC365HI and CSC375HI can be taken in any order, we recommend that CSC375HI be taken first.

## **CSC369HI Operating Systems 26L, 13T**

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.

Exclusion: CSC468HI.

Prerequisite: CSC258HI, 209HI, 207HI/270HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC372HI Microprocessor Software 26L, 13T, 39P**

Development of reliable efficient software for controlling and monitoring an environment. Concurrent programming techniques, such as interrupt handling, buffer management, polling and time outs. Projects use microprocessors to control equipment (such as a robot arm) and to read sensors. Design, implementation and testing of software using a language such as C.

Prerequisite: CSC209HI; 258HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC373HI Algorithm Design & Analysis 26L, 13T**

Standard algorithm design techniques: divide-and-conquer, greedy strategies, dynamic programming, linear programming, randomization, network flows, approximation algorithms, and others (if time permits). Students will be expected to show good design principles and adequate skills at reasoning about the correctness and complexity of algorithms.

Exclusion: CSC375HI, 364HI.

Prerequisite: CSC263HI/265HI/378HI; CGPA 3.0/enrolment in a CSC subject POST.

NOTE: Although the courses CSC373HI and CSC363HI can be taken in any order, we recommend that CSC373HI be taken first.

## **CSC375HI Enriched Algorithm Design & Analysis 26L, 13T**

This course covers the same topics as CSC373HI, 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 CSC373HI may be covered in more detail in this course, and some additional topics may also be covered. Students without the exact course prerequisites but with a strong mathematical background are encouraged to consult the Department about the possibility of taking this course.

Exclusion: CSC373HI, 364HI.

Prerequisite: CSC 265HI; CGPA 3.0/enrolment in a CSC subject POST.

NOTE: Students may go to their college to drop down from CSC375HI to CSC373HI. See above for the drop down deadline.

NOTE: Although the courses CSC375HI and CSC365HI can be taken in any order, we recommend that CSC375HI be taken first.

## **CSC384HI Introduction to Artificial Intelligence 26L, 13T**

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, both theory and programming, of the core topics.

Exclusion: CSC484HI.

Prerequisite: CSC324HI; STA247HI/255HI/257HI; CGPA 3.0/enrolment in a CSC subject POST.

## **ECE385HI Microprocessor Systems 26L, 39P**

A hardware-oriented course dealing with microprocessor systems. Microprocessor components, memory devices, input/output techniques, bus structure, peripheral device controllers, hardware system and programming considerations. Laboratory experiments provide "hands-on" experience.

Prerequisite: CSC258HI; 209HI/proficiency in C; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC401HI Natural Language Computing 26L, 13T**

Introduction to techniques involving natural language and speech in applications such as information retrieval, extraction, and filtering; intelligent Web searching; spelling and grammar checking; speech recognition and synthesis; and multi-lingual systems including machine translation. N-grams, POS-tagging, semantic distance metrics, indexing, on-line lexicons and thesauri, markup languages, collections of on-line documents, corpus analysis. PERL and other software.

Prerequisite: CSC207HI/209HI/228HI; STA 247HI/255HI/257HI; CGPA 3.0/enrolment in a CSC subject POST.

Recommended preparation: MAT223HI/240HI is strongly recommended.

# Computer Science

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## **CSC410HI Software Testing and Verification 26L, 13T**

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: CSC301HI..

## **CSC411HI Machine Learning and Data Mining 26L, 13T**

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. Problems with handling large databases.

Prerequisite: CSC263HI/265HI/270HI; MAT137Y1, STA247HI/255HI/257HI, 248HI/250HI/261HI; CGPA 3.0/enrolment in a CSC subject POST.

Recommended preparation: CSC 336HI/350HI.

## **CSC412HI Probabilistic Learning and Reasoning 26L, 13T**

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: CSC411HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC418HI Computer Graphics 26L, 13T**

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: CSC336HI/350HI/351HI/363HI/364HI/365HI/373HI/375HI/378HI, MAT137Y1, CSC209HI/proficiency in C or C++ ; CGPA 3.0/enrolment in a CSC subject POST.

Recommended preparation: MAT237Y1, MAT244HI.

## **CSC420HI Introduction to Image Understanding 26L, 13P**

Introduction to fundamental concepts in image understanding, the subdiscipline of artificial intelligence dealing with the automation of visual tasks by computer. Exploration of a number of real-world image interpretation problems, as motivation for key low- and intermediate-level vision algorithms. A course project will include the construction of a number of practical vision systems.

Prerequisite: CSC260HI/263HI/265HI, MAT135Y1/136Y1/137Y1/157Y1, 223HI/240HI; CGPA 3.0/enrolment in a CSC subject POST.

Recommended preparation: CSC320HI.

## **CSC428HI Human-Computer Interaction 26L, 13T**

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: CSC318HI; STA247HI/255HI/257HI, STA(248HI/250HI/261HI)/(PSY201HI, 202HI)/(SOC 202HI, 300HI); CSC 209HI/proficiency C++ or Java; CGPA 3.0/enrolment in a CSC subject POST.

Recommended preparation: A course in PSY; CSC209HI, 407HI.

## **CSC438HI Computability and Logic 26L, 13T**

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.

Exclusion: MAT309HI; PHL344HI.

Prerequisite: CSC363HI/364HI/365HI/373HI/375HI/MAT247HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC443HI Database System Technology 26L, 13T**

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: CSC343HI/434HI, 369HI/468HI, 364HI/373HI/375HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC446HI Computational Methods for Partial Differential Equations 26L, 13T**

Finite difference methods for hyperbolic and parabolic equations; consistency, convergence, and stability. Finite element methods for 2-point boundary value problems and elliptic equations. Special problems of interest.

Prerequisites: CSC351HI/(336HI (75%))/equivalent mathematical background; MAT237Y1/257Y1; APM346HI/351Y1/(MAT244HI/267HI and exposure to PDE's); CGPA 3.0/enrolment in a CSC subject POST.

## **CSC448HI Formal Languages and Automata 26L, 13T**

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.

Prerequisite: CSC236HI/238HI/240HI, 363HI/364HI/365HI/MAT247HI; CGPA 3.0/enrolment in a CSC subject POST.

## **CSC454HI The Business of Software 26L, 13T**

Overview of the software industry, and principles of operation for successful software enterprises. Software business definition and planning; market and product planning; management of innovation, research and software development; software marketing and sales management; software manufacturing and support; financial management of high-technology ventures; human resource management and development in high-technology industries. (Ordinarily offered in alternate years.)

Prerequisite: Five CSC half-courses at the 200-level or higher; CGPA 3.0/enrolment in a CSC subject POST.

Recommended preparation: MGT120HI.



**CSC456HI High-Performance Scientific Computing 26L, 13T**

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. Topics from: performance evaluation; scientific visualization; numerical methods; applications from science and engineering. For students in computer science, applied mathematics, science, engineering. Prerequisite: CSC350HI/(336HI (75%))/equivalent mathematical background; CSC209HI/proficiency in C, C++ or Fortran; CGPA 3.0/enrolment in a CSC subject POST.

**CSC458HI Computer Networks 26L, 13T**

Computer communication network design and operation. Representation of information on physical channels; error detection and recovery; local area networks; deadlock and congestion avoidance; internetworking and gateways; network naming and addressing; remote procedures. Emphasis on fundamental principles rather than case studies, but with examples from real networks. Prerequisite: CSC258HI, 354HI/363HI/364HI/365HI/372HI/373HI/375HI/378HI/ ECE385HI; STA 247HI/255HI/257HI/(80% in STA220HI/ ECO220Y1); CGPA 3.0/enrolment in a CSC subject POST.

**CSC465HI Formal Methods in Software Design 26L, 13T**

The use of logic as an aid to programming. Formal semantics of programming languages: imperative programs, functional programs, parallel processes, communicating processes. Partial and total correctness. Refinement theorems: by steps, by parts, by cases. Semantics of recursion and the least-fixed-point construction; monotonicity, continuity. Semantics of data types; data refinement. Prerequisite: CSC236HI/238HI/240HI/MAT309HI; CGPA 3.0/enrolment in a CSC subject POST. Recommended preparation: CSC363HI/364HI/365HI.

**CSC469HI Operating Systems Design and Implementation 26L, 13T**

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. Exclusion: CSC468HI. Prerequisite: CSC369HI; CGPA 3.0/enrolment in a CSC subject POST.

**CSC485HI Computational Linguistics 26L, 13T**

Computational linguistics and the understanding of language by computer. Possible topics include: augmented context-free grammars; chart parsing, parsing in Prolog, statistical parsing; semantics and semantic interpretation; ambiguity resolution techniques; discourse structure and reference resolution; machine translation. Emphasis on statistical learning methods for lexical, syntactic and semantic knowledge. Prerequisite: CSC324HI/experience in Lisp or Prolog; CGPA 3.0/enrolment in a CSC subject POST. Recommended preparation: Suggested background includes substantial programming experience and either a course in AI, such as CSC384HI, or a Linguistics course in syntax or semantics.

**CSC486HI Knowledge Representation and Reasoning 26L, 13T**

Representing knowledge symbolically in a form suitable for automated reasoning, and associated reasoning methods: 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: CSC384HI, CSC363HI/365HI/373HI/375HI; CGPA 3.0/enrolment in a CSC subject POST. Recommended preparation: CSC330HI.

**CSC487HI Foundations of Computer Vision 26L, 13T**

Introduction to vision, visual processes, and image understanding. Brief biological motivation for computational vision. Camera system geometry and image acquisition, basic visual processes for recognition of edges, regions, lines, surfaces. Processing colour, stereo images, and motion in image sequences. Active vision methods such as visual attention and interpretation-guided imaging system geometry changes. Object recognition. Applications of visual systems. Prerequisite: CSC320HI/420HI; MAT235Y1/237Y1/257Y1; CGPA 3.0/enrolment in a CSC subject POST.

**CSC488HI Compilers and Interpreters 26L, 13T**

Compiler organization, compiler writing tools, use of regular expressions, finite automata and context-free grammars, scanning and parsing, runtime organization, semantic analysis, implementing the runtime model, storage allocation, code generation. Prerequisite: CSC258HI, 324HI, 263HI/265HI/378HI; CGPA 3.0/enrolment in a CSC subject POST. Recommended preparation: Proficiency in C such as from CSC209HI.

**ECE489HI Compilers II 26L, 39P**

Theoretical and practical aspects of building modern optimizing compilers. Topics: intermediate representations, basic blocks and flow graphs, data flow analysis, partial evaluation and redundancy elimination, loop optimizations, register allocation, instruction scheduling, interprocedural analysis, and memory hierarchy optimizations. Students implement significant optimizations within the framework of a modern research compiler. (This course is a cross-listing of ECE540HI, Faculty of Applied Science and Engineering.) Prerequisite: CSC488HI; CGPA 3.0/enrolment in a CSC subject POST. Recommended preparation: ECE385HI, proficiency in C.

**CSC490HI Capstone Design Project 52L**

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. In 2006/07 the theme was User interfaces for video games. At the time of printing, the theme for 2007/08 had not been chosen but see [www.cs.utoronto.ca/~csc490h](http://www.cs.utoronto.ca/~csc490h) for information about this year's topic themes and required preparation. Prerequisite: Permission of the instructor; CGPA 3.0/enrolment in a CSC subject POST.

## **Computer Science**

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**CSC494HI/ Computer Science Project TBA  
495HI**

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.

Prerequisite: Three 300-level Computer Science half-courses, a CGPA of 3.00 (2.50 for students in a CSC Program), and permission of the Program Director, Undergraduate Studies.

**Criminology: see Woodsworth College**

**Croatian: See Slavic Languages and Literatures**

**Czech: See Slavic Languages and Literatures**

# Diaspora & Transnational Studies

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## 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 two linked half-courses that offer 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.

## Diaspora and Transnational Studies Programs

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### Major program

(7 full courses or their equivalent, including at least two 300+ series courses)

1. DTS200Y1
2. Five full-course equivalents (FCEs) from Group A and B courses, with at least two FCEs from each group. Coverage must include at least two diasporic communities or regions, to be identified in consultation with the program advisor.
3. DTS401H1, DTS402H1

### Minor program

(4 full courses or their equivalent, including at least one 300+ series course)

1. DTS200Y1
2. Three full-course equivalents (FCEs) from Group A and B courses, with at least one FCE from each group.
3. Either DTS401H1 or DTS402H1

### Group A (Humanities) Courses

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Students are responsible for checking the co- and prerequisites for all courses in Groups A and B.

Note: course = one full course or the equivalent in half courses.

### East-Asian Studies

EAS202Y1	Modern East-Asian History
EAS271H1	20 <sup>th</sup> Century Korean History

### English

ENG275Y1	Jewish Literature in English
ENG277Y1	Introduction to African Canadian Literature
ENG268H1	Asian North American Literature
ENG285H1	The English Language in the World
ENG368H1	Asian North American Poetry and Prose
ENG370H1	Postcolonial and Transitional Discourses

### Finn-Ugric Studies

FIN320H1	The Finnish Canadian Immigrant Experience
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### French

FRE332H1	Francophone Literature I
FRE431H1	Francophone Literature II

### German

GER362H1	Soviet and Kosher: Jewish Culture in the Soviet Union
GER364H1	History of Yiddish Cinema

### History

HIS202H1	Gender, Science and Technology
HIS206Y1	Medieval History of the Jewish People
HIS208Y1	Modern History of the Jewish People
HIS232Y1	The British Imperial Experience
HIS294Y1	Caribbean History and Culture
HIS296Y1	Black Freedom
HIS303Y1	The Mediterranean, 600-1700: Crusade, Colonialism, Diaspora
HIS305H1	Popular Culture and Politics in the Modern Caribbean
HIS312H1	Immigration to Canada
HIS324Y1	Science, Technology, and the Development of Modern Culture
HIS326Y1	Chinese Migration
HIS338Y1	The Holocaust: Nazi Germany, Occupied Europe and the Destruction of European Jewry
HIS345H1	History and Film
HIS356H1	Zionism and Israel
HIS359H1	Regional Politics and Radical Movements in the 20th Century Caribbean
HIS360Y1	African-Canadian History, 1606-Present
HIS366Y1	Black Canadian Women's History
HIS367H1	History of Images
HIS369Y1	Aboriginal Peoples of the Great Lakes from 1500
HIS370H1	The Black Experience in the United States Since the Civil War
HIS476Y1	Voices From Black America
HIS384H1	Colonial Canada: the East
HIS386H1	Muslims in India and Pakistan
HIS393H1	Slavery and the American South
HIS394H1	South Asian Migration and Settlement
HIS403Y1	Jews and Christians in Medieval and Renaissance Europe
HIS408Y1	History of Race Relations in America
HIS417H1	Globalization, Science, and Technology
HIS433H1	Polish Jews Since the Partition of Poland
HIS435Y1	Linguistic and Cultural Minorities in Europe
HIS437H1	A History of the Black Autobiographical Tradition in Canada
HIS444H1	Topics in Jewish History: Jewish Identity in the Modern World
HIS445H1	Nationalism
HIS446Y1	Gender and Slavery in the Atlantic World
HIS456Y1	Black Slavery in Latin America
HIS472H1	Topics in Canadian Aboriginal/Non-Aboriginal Relations
HIS480H1	Modernity and its Others: History and Postcolonial Critique
HIS484H1	The Car in History: Business, Space, and Culture in North America
HIS487H1	Travelers and Scholars East/West
<b>Innis College</b>	
INI327Y1	Race and Representation
INI380Y1	Contemporary World Cinema
<b>Italian Studies</b>	
ITA233Y1	Ethnicity and Mainstream Italian Canadian Culture
ITA334H1	Italian Canadian Literature I: Life in a New World
ITA493H1	Italian Canadian Literature II
<b>Near and Middle Eastern Civilizations</b>	
NMC274Y1	Steppe Frontier in Islamic History
NMC357H1	Mass Media and/in the Middle East

# Diaspora & Transnational Studies

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NMC370Y1 Ancient Israel  
 NMC385H1 Intellectuals of the Arab World  
 NMC475H1 Orientalism and Occidentalism

## New College - African Studies

NEW296Y1 Black Freedom

## New College - Caribbean Studies

NEW223Y1 Caribbean Literature and Society  
 NEW224Y1 Caribbean Thought I  
 NEW324Y1 Caribbean Thought II  
 NEW325H1 Caribbean Women Thinkers  
 NEW326Y1 Indenture, Survival, Change  
 NEW327Y1 The Hispanic Caribbean: Insights and Images of Cuba

## New College - Equity Studies

NEW343H The Romani Diaspora in Canada

## New College - Women's Studies

WGS368H1 Gender and Cultural Difference: Transnational Perspectives  
 WGS369Y1 Studies in Post-Colonialism  
 WGS380H1 Aboriginal, Black and Immigrant Women in the Land of Dollars  
 WGS445H1 Migrations and the Sacred

## Religion

RLG243H1 Diasporic Religions  
 RLG341H1 Dreaming of Zion: Exile and Return in Jewish Thought  
 RLG430H1 Jewish Culture in Medieval Latin, Greek, and Arabic Europe

## Slavic Languages and Literature

SLA 302H1 The Imaginary Jew

## St. Michael's College

SMC413H1 The Irish in Canada  
 SMC414H1 The Scots in Canada  
 SMC416H1 Irish Nationalism in Canada and the United States

## Spanish and Portuguese

SPA480H1 Theories of Culture in Latin America  
 SPA486H1 Contemporary Caribbean Literatures and Identities

## Victoria College

VIC350Y1 Creative Writing: A Multicultural Approach

## Group B (Social Sciences) courses

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### Anthropology

ANT347Y1 Metropolis: Global Cities  
 ANT426H1 Orientalism: Western Views of the Other  
 ANT440Y1 Global Society in Transition  
 JAP256H1 African Systems of Thought

### Geography

GGR216H1 Global Cities  
 JGI216H1 Urbanization & Global Change  
 GGR256H1 Recreation and Tourism  
 GGR336H1 Urban Historical Geography of North America  
 GGR346H1 The Urban Planning Process  
 GGR350H1 Canada in a Global Context  
 GGR361H1 Understanding the Urban Landscape  
 GGR362H1 Cities of Difference  
 GGR363H1 Critical Geographies: An Introduction to Radical Ideas on Space, Society and Culture

GGR366H1 Historical Toronto  
 GGR368H1 Geography of Language  
 GGR435H1 Technology, Toronto, and Global Warming  
 GGR452H1 Space, Power, Geography: Understanding Spatiality  
 GGR459H1 Urban Form, Structure and Growth

### Political Science

POL215Y1 Politics and Transformation of Asia-Pacific  
 POL304H1 Ethnicity and Politics in Canada  
 POL321H1 Ethnic Politics in Comparative Perspective  
 POL349Y1 Globalization and Urban Politics in Europe and North America  
 POL358Y1 Post-Colonial Questions: Politics, Knowledge, Power  
 POL364H1 Religion and Politics  
 POL403H1 Colonialism/Post-Colonialism: The Colonial State and Its Forms of Power  
 POL405Y1 Marxism  
 POL425Y1 Multiculturalism in Canada  
 POL429Y1 Nationalism, Ethnic Conflict and Democracy  
 POL430Y1 Comparative Studies in Jewish and Non-Jewish Political Thought  
 JHP435Y1 Linguistic and Cultural Minorities in Europe  
 POL436Y1 Problems of Political Community  
 POL439H1 The Canadian Welfare State in Comparative Perspective  
 POL443H1 The Colonial State and its Forms of Power  
 POL445Y1 Canada and The Third World  
 JPF455Y1 Cities

### Sociology

SOC218Y1 Asian Communities in Canada  
 SOC341Y1 The Jewish Community in Europe and North America  
 SOC344Y1 Contemporary International Migration  
 SOC383H1 The Sociology of Women and International Migration

## University of Toronto Scarborough courses that can be applied to the program

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### Group A (Humanities) Courses

ENGB17H3 Contemporary Literature from the Caribbean  
 ENCC13H3 Ethnic Traditions in American Literature  
 ENG70H3 The Immigrant Experience to 1980  
 ENCC71H3 The Immigrant Experience in Literature since 1980  
 ENGD87H3 Between Traditions and Freedoms: Writing by Canadians of Asian Descent  
 FREB28H3 The Francophone World  
 FREB35H3 Francophone Literature  
 FREB70H3 Cinema of the Francophone World  
 FREC47H3 Special Topics in Linguistics: Pidgin and Creole Languages  
 HISC14H3 Edible History: History of Global Foodways  
 HISC36H3 People in Motion: Immigrants and Migrants in U.S. History  
 HISC45H3 Immigrants and Race Relations in Canadian History  
 VPAB09H3 Dialogues in the Diaspora  
 VPHB50H3 Africa through the Photographic Lens  
 VPHC52H3 Issues in Contemporary Global Arts

Plus courses identified by University of Toronto Scarborough as

# Diaspora & Transnational Studies

a Group A courses

## **Group B (Social Science) Courses**

ANTB08H3	The Chinese Diaspora
ANTC34H3	The Anthropology of Transnationalism
GGRC19H3	Spaces of Multiraciality: Critical Mixed Race Theory
GGRC45H3	Local Geographies of Globalization
POLA81H3	Leaving Home: Politics and Emigration
SOCC25H3	Comparative Ethnic and Race Relations
SOCC34H3	Globalization: Causes, Consequences and Critique

Plus courses identified by University of Toronto Scarborough as Group B courses.

## **University of Toronto Mississauga courses that can be applied to the program**

### **Group A (Humanities) Courses**

ENG272H5	Literature and Exile
ENG271H5	Diasporic Literatures in Toronto
ENG370H5	Postcolonial and Transitional Discourses
FRE290Y5	Aspects of Francophone Cultures
FRE390H5	Women of the Francophone World
FRE395H5	Films of the Francophone World
LIN366H5	Creoles
VCC302H5	Visual Culture Through the Post Colonial Lens
VCC304H5	Visual Culture and the Construction of Identity
WGS335H5	Immigrant and Refugee Women
WGS369Y5	Gender, Colonialism and Cultural Resistance

### **Group B (Social Science) Courses**

ANT361H5	African Cultures
POL362H5	Decolonizing Political Science I
POL363H5	Decolonising Political Science II
SOC236H5	Critical Theories of Globalization
SOC332H5	Race and Ethnicity
SOC333H5	Race and Ethnicity II
SOC338H5	Global Diasporas
SOC339H5	Social and Ecological Issues in Globalization
SOC353H5	Sociology of Globalization since 1945
SOC354H5	Global Sociology

Plus courses identified by University of Toronto Mississauga as Group B courses

## **Diaspora and Transnational Studies Courses**

For Distribution Requirement purposes (see page 27), all DTS courses are classified as SOCIAL SCIENCE or HUMANITIES courses.

<b>DTS200Y1</b>	<b>Introduction to Diaspora and Transnational Studies I (formerly DTS201H1, 202H1)</b>	<b>52L</b>
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An interdisciplinary introduction to the study of diaspora, with particular attention to questions of history, spatiality, globalization, cultural production and the creative imagination. Material will be drawn from Toronto as well as from diasporic communities in other times and places.

Exclusion: DTS201H1, 202H1

<b>DTS401H1</b>	<b>Advanced Topics in Diaspora and Transnationalism (Postcolonialism and Diaspora)</b>	<b>26S</b>
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This will be a course using the intersections between Postcolonialism and Diaspora Studies to explore issues of place, memory, and identity. The course will be comparative and interdisciplinary with a focus on literature, anthropology, political science and cultural studies.

<b>DTS402H1</b>	<b>Advanced Topics in Diaspora and Transnationalism (Critical Approaches to Diaspora Studies)</b>	<b>26S</b>
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Course critically examines theoretical and methodological approaches adopted by different disciplines to the subject of Diaspora and Transnational Studies. Classes will engage with community actors and organizations and will be comparative and interdisciplinary with a focus on literature, anthropology, political science and cultural studies.

# Drama

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## Drama is sponsored by University College

### Faculty

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#### Director

TBA

#### Professor

P. Kleber, MA, Ph D

#### Associate Professor

A. Ackerman, MA, Ph D

#### Assistant Professors

A. Budde, MA, Ph D

A. Egoan, BA

A. Janson, MA

#### Senior Lecturers

S. Bush

K. Gass, BA

#### Lecturers

S. Lyons, BA

The Drama Program (Specialist, Major, Minor) offers students the opportunity to combine high standards of practical, professional theatre training with a rich and rigorous academic program. The Program offers courses in dramatic literature, dramaturgy, stage theory, theatre history, production, design, direction, and performance. Students are required to take structured combinations of courses interrelated so as to lead to a broad knowledge of the field as a whole. The Combined Specialist programs in English and Drama also provides a specialist alternative to Drama alone, while a Drama Major or Minor may be valuably combined with programs in a wide variety of other fields, as offered both by language and literature departments (English, French, German, Italian, Spanish and Portuguese, etc.) and other departments and programs such as Anthropology, Canadian Studies, Cinema Studies, Classics, Commerce, Fine Art, History, Music, Psychology, Religion, Sociology, and Women's Studies.

The Drama Program is housed in the Helen Gardiner Phelan Playhouse at University College. Besides providing instruction in theatre studies, the Drama Program has mounted international theatrical events and conferences, and its students have toured Europe and Asia. The Program has also forged links with leading Canadian theatres and has regular contact with world-renowned international theatre artists. More details on the Drama Program, including application forms, can be found on the web site at: [www.ucdp.utoronto.ca](http://www.ucdp.utoronto.ca). The Program Director and Academic Administrative Assistant are also available for consultation. For enquiries or an appointment call the Drama Program Administrative Assistant at 416-978-8099 or send an e-mail to [uc.drama@utoronto.ca](mailto:uc.drama@utoronto.ca)

DRM courses are staffed by a combination of theatre professionals, members of other university departments, and specific DRM staff members. Some courses are restricted to students in a Drama Specialist, Major, or Combined Specialist program; some are open to all students of the University.

## Drama Programs

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### Drama (Arts program)

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Consult the Director, Room 300, 79A St. George St., University College.

Enrolment in the Specialist and Major programs is limited and selection is made after a personal interview and audition. Students will be admitted to the Major only after they have been admitted to DRM 200Y1 (with DRM 201Y1) or DRM 254Y1, and to the Specialist only after they have been admitted to a third course from Group B (other than DRM 301Y1). Enrolment in the Minor program is unrestricted. Students in the Minor program may only take academic courses.

#### Specialist program:

(12 full courses or their equivalent, including at least four 300+ series with at least one 400 level)

First Year:

One or both of DRM 100Y1, DRM 200Y1 (with DRM 201Y1 as co-requisite)

Higher Years:

1. DRM 200Y1 (and DRM 201Y1) if not taken in First Year
2. From Group A (below): DRM 230Y1 and three of DRM 260H1, 262H1, 266H1, 268H1 and 364H1
3. DRM 300Y1 and 301Y1
4. From Group C: one full-course equivalent
5. From Group D: one full-course equivalent
6. 2.5 courses from Groups A, B, C, D, E, to make up the total of 12 courses

#### Major program:

(8 full courses or their equivalent including at least two 300+ series courses)

#### Option A

First Year:

One or both of DRM 100Y1, DRM 200Y1 (with DRM 201Y1 as co-requisite)

Higher Years:

1. DRM 200Y1 & 201Y1 (if not taken in first year)
2. DRM 300Y1 & 301Y1
3. From Group A: DRM 230Y1 and two of DRM 260H1, 262H1, 266H1, 268H1 and 364H1
4. From Groups C and/or D: one full-course equivalent

#### Option B

First Year:

One or both of DRM 100Y1, DRM 200Y1 (with DRM 201Y1 as co-requisite)

Higher Years:

1. DRM 200Y1 & DRM 201Y1 (if not taken in first year)
2. DRM 254Y1
3. From Group A: DRM 230Y1 and three of DRM 260H1, 262H1, 266H1, 268H1 and 364H1
4. From Groups C and/or D: one and a half course equivalents

#### Option C

First Year: DRM 100Y1

Higher Years:

1. DRM 254Y1
2. DRM 354Y1
3. From Group A: DRM 230Y1 and three of DRM 260H1, 262H1, 266, 268H1, and 364H1
4. From Groups C and/or D: two and a half course equivalents

## Minor program:

(4 full courses or their equivalent including at least one 300+ series course)

1. DRM 100Y1 and one full-course equivalent from Groups C, D (below)
2. Two half-courses from Group A (excluding DRM 230Y1 and DRM 431Y1)
3. One full-course equivalent from Groups A (excluding DRM 230Y1 and DRM 431Y1), C, D or E

### Note:

Students in the Minor program are not eligible for practical courses

### Group A:

DRM 230Y1, 260HI, 262HI, 266HI, 268HI, 280HI, 281HI, 364HI, 386HI, 431Y1, JDC 400Y1, 410HI

### Group B:

DRM 200Y1, 201Y1, 254Y1, 300Y1, 301Y1, 328HI, 354Y1, 400Y1, 401HI, 402Y1, 403Y1, 486HI; ENG 369Y1 (playwriting section) Note: Students taking a practical course (Group B) are required to take an academic co-requisite (Groups A, C, D)

### Group C:

ENG 220Y1, 223HI, 330HI, 331HI, 332Y1, 333HI, 334HI, 335HI, 336HI, 337HI, 338Y1, 339HI, 340HI, 341HI, 342HI, 352HI,

### Group D:

ABS 341HI; CLA 382HI, 383HI; EAS 233HI; FRE 315HI, 317HI, 359HI, 360HI, 372Y0; GER 232HI; GRK 351HI, 352HI, 451HI, 452HI; HUN 450HI; ITA 390HI, 410HI, 415HI, 426HI; JDC 400HI; LAT 351HI/451HI; NEW 422Y1; SLA 337HI, 418HI, 476HI; SPA 452HI; UNI 202HI

### Group E:

MUS 206HI; SLA 424HI, 476HI

### Other:

DRM 100Y1, 390Y1/391HI, 490Y1/491HI. (These may be applied to Groups A,B,C,D,E on petition to, and approval by, the Drama Program Committee)

## Drama and English (Arts program)

Consult the Director, Room 300, 79A St. George Street, University College.

Enrolment in this program is limited and selection is made after a personal interview and audition. Upon admission to DRM 200Y1 or DRM 254Y1 students may enroll in the double major in English and Drama; upon admission to a third course from Group B students may change their enrolment to the Drama and English Specialist program.

## Specialist program:

(14 to 15 full courses or their equivalent, with at least four 300+ series courses including at least one 400-series course)

### English:

Same as the English Major program (see English)

### Drama:

First Year:

One or both of (a) DRM 100Y1, (b) DRM 200Y1 (with DRM 201HI as co-requisite)

Higher Years:

See Drama Major requirements (Please note: the combination of Majors require twelve separate courses to meet Honours degree requirements).

## Drama Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all DRM courses are classified as HUMANITIES courses.

### DRM100Y1 Drama: Form and Style 78L

An introduction to the study of dramatic literature, with particular reference to the realization of plays upon the stage. Plays from a variety of periods and countries are studied in terms of the use of theatrical space, plot and generic structure, characterization, theme, and language.

### DRM200Y1 Introduction to Performance 104P

Emphasis is initially on ensemble, non-verbal, and improvisational work. Students proceed to the application of their acquired skills to scripted material.

Pre- or Co-requisite: DRM100Y1 or DRM230Y1

Co-requisite: DRM201Y1

### DRM201Y1 Voice for the Actor I 52P, 2T Movement for the Actor I 52P, 5T

A voice and movement component, taken in conjunction with DRM200Y1: Introduction to Performance. Work consists of both theory and practice of voice and movement as they relate to the development of the actor.

Co-requisite: DRM200Y1

### DRM230Y1 Concepts of Twentieth-Century Theatre 78L

(Drama Minors are not eligible to enroll)

The work of selected theorists and practitioners of the 20th century and their contrasting ideas on the kind of expression and communication possible through the medium of the theatre. A study of how the interrelationship between director, actor, playwright and text influences the style of performance and the nature of audience response.

Prerequisite: DRM100Y1

### DRM254Y1 Production 56L, 100P

A detailed analysis of the production element of theatre: the conceptual and practical problems of design, production personnel and organization, production facilities, business management, publicity, sound and lighting equipment.

Prerequisite: DRM100Y1

Co-requisite: DRM230Y1

### DRM260HI History of the Greek and Roman Theatre 39L

The physical structures of the Greek and Roman theatre and the major conventions of production and staging, based on the evidence of art, archaeology, and the texts of the plays themselves, from the origins and development of the drama at Athens in the 6th century B.C. to the decline of stage drama in Rome in the 1st century B.C. (Not offered in 2007/2008)

### DRM262HI Experimentation and Innovation: A Comparative History of World Theatre from Ancient Times Until the Present 39L

An intercultural and comparative analysis of innovative processes within world theatre. Focusing on selected periods, the course explores the cultural backgrounds of key events or turning points in pre-modern and modern theatre and their indications for post-modern theatre developments in a globalized world.

Recommended Preparation: DRM364

# Drama

**DRM268HI Canadian Theatre History 39L**

A survey from the origins to the present, including performance rituals of native people; theatrical performances during the colonial period; the development of National and Regional forms of theatre; Festival and alternative theatres; trends in Canadian playwriting and their relationship to theatre history. (Not offered in 2007/2008)

**DRM299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**DRM300YI Performance I 156P**

Continuation of DRM200YI, concentrating upon scene study. Scenes are developed through analysis of text and sub-text, the establishing of scene objectives, improvisation, and physical action.

Prerequisite: DRM200YI, permission of University College Drama Program Committee

Co-requisite: DRM230YI (or full course from Group A if DRM230 already completed),

**DRM301YI Voice for the Actor II 52P, 2.5T  
Movement for the Actor II 52P, 2T**

A voice and movement component, taken in conjunction with DRM300YI: Performance I. Work consists of both theory and practice of voice and movement as they relate to the development of the actor.

Prerequisite: DRM200YI, 201YI

Co-requisite: DRM300YI

**DRM310HI Contemporary American Drama 39L**

American dramas of the last 50 years. Structural, historical, and thematic approaches to self-consciously theatrical works and to the idea of America itself. Authors include Miller, Williams, Albee, Baraka, Kennedy, Hansberry, Shepard, Fornes, Mamet, Kushner, and performance artists such as Karen Finley and Laurie Anderson. (Not offered in 2007/2008)

**DRM328HI The Art and Craft of Playwriting 39L**

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 storymaking. Attention is given to the development of students' own work through written assignments and in-class exercises.

Prerequisite: DRM230YI, permission of the instructor

**DRM354YI Stage and Costume Design I 52L, 26P**

A detailed exploration of theatrical stage and costume design, historical and contemporary, theatrical and practical.

Prerequisite: Permission of University College Drama Program Committee

**DRM364HI History of Western Theatre from the Renaissance to 1900 (formerly DRM 264HI) 39L**

Modes of theatre in selected periods and cultures in Early Modern Europe from the Renaissance to the end of the 18th century. Constitution of the audience and of acting companies; the relationship between the plays, the players, and the audience. The development of theatre theory, criticism and dramaturgy in their historical and cultural context. (Offered in alternate years)

Exclusion: DRM264HI

**DRM385YI/ Topics in Drama TBA  
386HI**

An in-depth examination of selected issues in the Theatre. Content may vary depending on instructor. See Undergraduate Handbook or the UC Drama Program website for more details.

**DRM390YI/ Independent Studies in Drama TBA  
391HI**

A topic chosen by the individual student. The student must work out details with a member of faculty who is willing to act as supervisor. A written proposal, signed by both student and instructor, must then be submitted for approval to the Drama Program Committee prior to registration and normally by May 31 of the preceding academic year. Open to advanced Specialist and Major students in the program.

Prerequisite: Permission of University College Drama Program Committee

**DRM400YI Performance II 247P**

Continuation of DRM300YI, concentrating on advanced performance techniques.

Prerequisite: DRM300YI, permission of University College Drama Program Committee

Co-requisite: DRM401HI

**DRM401HI Voice for the Actor III 52P, 2T  
Movement for the Actor III 52P, 2T**

A voice and movement component to be taken with DRM400YI: Performance II. Work consists of both theory and practice of voice and movement as they relate to the development of the actor.

Co-requisite: DRM400YI

**JDC400YI Dramatic Text and Theatrical Communication 52S**

This course tests Brecht's idea of theatrical two-way communication by addressing three topics: what did Brecht mean; how can theatre communicate; how far did Brecht, Robert Wilson and Robert LePage move in their direction. Prerequisite: DRM230YI; permission of instructor. Limited to fourth-year students. (Not offered in 2007/2008)

**JIA400HI Interdisciplinary Practice for the Arts 156P**

This course will examine different versions of Salome to explore the interconnectedness of the arts. Between sessions, students will be required to meet and develop projects connected to their study that will involve a range of media, including theatre, film, music and visual art (installation). This is a Humanities course limited to fourth-year students. (Not offered in 2007/2008)

**DRM402YI Seminar in Directing 156P**

Techniques of rehearsal process; staging. The role of the director in its varying relationships to text, actor and audience.

Prerequisite: DRM200YI, 230YI, 254YI, two of DRM 260HI, 266HI, 268HI, 364HI and permission of the University College Drama Program Committee

Co-requisite: DRM431YI

**DRM403YI Performance III 208P**

An in-depth study on a theoretical and practical level of a specific play which is presented to the public. This involves an intensive exploration of character in rehearsal and its discovery in performance.

Prerequisite: Permission of University College Drama Program Committee

Co-requisite: DRM431YI



Pre- or co-requisite: DRM400Y1

Exclusion: DRM401Y1

**JDC410H1    New Approaches to Theatre History 52S**

An upper level seminar in Theatre History. Topics vary from year to year.

Prerequisite: DRM230Y1

**DRM431Y1    Studies in Performance History,    78L  
                  Dramaturgy**

A play is chosen from a specific period. A textual analysis of the selected play is followed by a study of the most significant productions of the work in terms of differing text interpretations, use of theatrical conventions, set and costume designs, and acting style. Students are introduced to various aspects of dramaturgical work.

Prerequisite: DRM230Y1, permission of University College  
Drama Program Committee

**DRM485Y1/    Topics in Drama                            TBA  
486H1**

An in-depth examination of selected issues in the Theatre. Content may vary depending on instructor. See Undergraduate Handbook or the UC Drama Program website for more details.

**DRM486H1    A Short History of Violence                    TBA**

A half-credit practical course in staged violence for the theatre, resulting in a Basic Level certification with Fight Directors Canada in: unarmed combat, single sword and quarter staff (students will have the choice to take the certification exam).

Prerequisite: DRM100Y1, 200Y1, 201Y1 and permission of department. (Offered in alternate years)

**DRM490Y1/    Independent Studies in Drama                TBA  
491H1**

A scholarly project chosen by the individual student. The student must work out details with a member of faculty who is willing to act as supervisor. A written proposal, signed by both student and instructor, must then be submitted for approval to the Drama Program Committee before registration and normally by May 31 of the preceding academic year. Open to advanced Specialist and Major students in the program.

# East Asian Studies

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## Faculty

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### Professors Emeriti

S. Arntzen, MA, Ph D  
E.-J. Baek, MA, Ph D  
R.W. Chu, BLS, MA  
M. Dolezelova, MA, Ph D  
F.P. Hoff, MA, Ph D (V)  
A.V. Liman, MA  
R.J. Lynn, MA, Ph D  
K. Nakajima, MA, M Phil (N)  
L.C.D.C. Priestley, MA, M Phil, Ph D  
W.A. Schleppe, B Sc, BA, Ph D  
R. Tsukimura, MA, Ph D  
A.H.C. Ward, MA  
A.K. Warder, BA, Ph D  
D.B. Waterhouse, MA, LRAM, FRSC, FRAS (U)

### Chair of the Department

A. Schmid, MA, Ph D

### Graduate Coordinator

G. Sanders, MA, Ph D

### Undergraduate Coordinator

Y. Johnson, MA, Ph D

### Professors

V.C. Falkenheim, MA, Ph D  
J. Liu, MA, Ph D  
A. Sakaki, MA, Ph D  
V.T. Shen, MA, M Phil, Ph D

### Associate Professors

E. Cazdyn, MA, Ph D  
R. Guisso, BA, D Phil  
Y. Johnson, MA, Ph D  
T. Keinstead, Ph D  
Y. Meng, MA, Ph D  
S. Sandahl, MA, Ph D  
G. Sanders, BA, Ph D  
A. Schmid, MA, Ph D  
S. Uyenaka, MA, Ph D \*

### Assistant Professors

J. Ahn, Ph D  
K. Kawashima, MA, Ph D  
Y.G. Kim, MA M Ed, Ed D\*  
J. Song, MA, Ph D  
C. Virag, MA, Ph D  
Y.S. Yoo, Ph D\*

### Senior Lecturer

I. Komuro-Lee, MA  
H.X.Y. Wu, Ph D

### Lecturers

H.Y. Im, M Ed, MA\*  
M. Kondo, MA\*

\* Part-time

The Department of East Asian Studies offers instruction to students who wish to learn about the historic and contemporary cultures of China, Japan and Korea, their interaction with one another, and their encounters with Western cultures. The disciplines pursued in the Department fall mostly within the humanities; additional courses on Asia are given by other departments in the Faculty of Arts and Science (Anthropology, Economics, Geography, History, Philosophy, Political Science, Sociology, and others). The Department of East Asian Studies recommends such courses to its students and will count many towards program requirements.

Courses offered by the Department of East Asian Studies fall into two main categories:

a) Courses that can be taken by students in other disciplines who wish to broaden their horizons. These encompass a variety of topics in the cultures of East Asia. They require no knowledge of East Asian languages.

b) Language and specialized courses for those in East Asian Studies programs. A full range of courses is available in Chinese, Japanese and Korean areas from the first year onwards, along with some instruction in Vietnamese.

Students seeking counseling should first contact the Undergraduate Co-ordinator, and in addition, all members of the Department provide advice and information, and the Undergraduate Co-ordinator or Program Administrator may direct students to them. In conjunction with Woodsworth College, the Department offers courses during June and July at the University of Hong Kong and in conjunction with the International Student Exchange Office, offers opportunities for exchanges with universities in China, Korea, Japan, Taiwan and Singapore. Students should also check the web page of the Asian Institute and the Dr. David Chu Program in Asia-Pacific Studies.

Undergraduate Co-ordinator and Enquiries:  
Robarts Research Library, 14th Floor, (416-946-3625)

## East Asian Studies Programs

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### East Asian Studies Specialist, Major, Minor (Arts programs)

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1. Enrolment in the program is open to students who have completed four full courses or their equivalent. Students who were enrolled in any EAS program prior to 2004-2005 may either switch to this new program, or may follow the criteria in place for the year in which they enrolled.
2. Students with an adequate knowledge of Mandarin Chinese, Japanese, or Korean should consult the Undergraduate Coordinator about the possibility of applying for a "language requirement waiver". This waiver allows students to substitute non-language courses for the language courses required by the program.
3. The department reserves the right to place students in the language course appropriate to their skill level. See Timetable for information on placement tests and interviews.
4. Students may count toward an EAS program those courses with East Asian content offered by other departments provided they appear in the Department web site or they have the permission of the Undergraduate Coordinator of EAS.

- EAS102Y1 is a required course for all levels of the program.
- EAS209Y is a required course for Specialist and Major programs.

### EAS Language Courses

EAS 100Y1, 101Y1, 104Y1, 110Y1, 120Y1, 121HI, 200Y1, 201Y1, 210Y1, 216Y1, 220Y1, 282Y1, 290Y1, 300Y1, 302Y1, 310Y1, 320Y1, 382Y1/HI, 400Y1, 410Y1, 415Y1, 460Y1, 461Y1, 480Y1/HI, 482Y1/HI,

### EAS Society-Culture EAS Courses

EAS 102Y1, 202Y1, 206Y1, 207HI, 209Y1, 211Y1, 215HI, 217HI, 233HI, 235HI, 237Y1, 238HI, 241HI, 246HI, 247HI, 256HI, 257HI, 271HI, 272HI, 284HI, 293HI, 295Y1, 299Y1, 303HI, 305HI, 306Y1, 307HI, 309HI, 318HI, 324HI, 325HI, 327HI, 330HI, 334Y1, 338HI, 340HI, 344HI, 345HI, 346HI, 347HI, 362Y1, 368Y1, 369HI, 372HI, 373HI, 374HI, 379HI, 389Y1, 395Y1, 398HI, 399Y1, 402Y1, 407HI, 408HI, 411HI, 412HI, 418HI, 431HI, 434HI, 435HI, 436Y1, 437Y1, 438Y1, 442HI, 444HI, 452HI, 453HI, 456HI, 457HI, 462HI, 468Y1, 469Y1, 473HI, 476Y1, 477Y1, 488HI, 490HI, 493HI, 495Y1, 496HI

### Non-EAS Courses on East Asia

Please see EAS Department web site

NOTE on Language Requirements: The Major and Specialist programs require a certain level of language proficiency. If students can demonstrate during their placement interviews for language courses that they have already attained this level, they will be given a language requirement waiver and will be free to complete their programs with EAS society-culture courses. Although the language requirement for the Major and Specialist program is 2nd and 3rd year level, respectively, it does not prevent students from continuing to study language at higher levels. However, only two credits for major and three credits for specialist will be counted toward the fulfillment of the program regardless of the numbers of language courses students may take.

### Specialist program:

EAS specialists are especially urged to explore the avenues for study abroad in East Asia offered by the Faculty of Arts and Science Exchange Program.

12 full courses

- EAS 102Y1, EAS 209Y1 (total of 2 credits)
- Three full EAS language courses in one language. (total of 3 credits of any levels)
- Seven full EAS society-culture courses, three of which may be non-EAS courses as listed on the departmental website; four courses must be at the 300/400-level. (total of 7 credits)

### Major program:

7 full courses

- EAS102Y1, EAS 209Y1 (total of 2 credits)
- Two full EAS language courses in one language. (total of 2 credits of any levels)
- Three full EAS society-culture courses, one of which may be a non-EAS course as listed on the departmental website; one course must be at the 300/400-level. (total of 3 credits)

### Minor program:

4 full courses (Language courses are not subject to the requirement of the minor program.)

- EAS 102Y (1 credit)
- Three full EAS society-culture courses, one of which must be 300/400-level; one of which may be a non-EAS course as listed on the departmental website. (total of 3 credits)

## East Asian Studies Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, (see page 27) all EAS courses are classified as HUMANITIES COURSES except for JMC 301Y1 which is classified as both a Humanities and Social Science course.

### EAS Language Courses:

Note 1.

The Department reserves the right to place students in the language course appropriate to their level of language skill. For EAS 290Y1 and all language courses at the 100-level, preference is given to students who need these courses to fulfill the requirements for Specialist and Major programs in the Department.

Note 2.

Students who enroll in any EAS language courses and are subsequently discovered to have prior background and/or have higher language competency than is appropriate for enrolment in that course may be removed at any time at the discretion of the Department.

### Chinese

#### EAS100Y1 Modern Standard Chinese I 52T, 52S

Intended for students with no or minimal background in any Chinese dialect, this course is an introduction to Modern Standard Chinese as a foreign/second language in listening, speaking, reading, writing and translation. Minimum of 550 Chinese characters will be covered.

Exclusion: EAS101Y1

#### EAS101Y1 Modern Chinese I for Students with Prior Background 26T, 52S

Designed for students who can speak and understand elementary Chinese of any dialect because of family backgrounds but have not studied pinyin, nor read and write enough to take a second-year course. Minimum of 700 single Chinese characters will be covered.

Exclusion: EAS100Y1

#### EAS200Y1 Modern Standard Chinese II 52T, 52S

As a continuation of EAS100Y1. Those who are suitable for this course but have not studied some content in EAS100Y1, especially pinyin, must make an effort to catch up by themselves. Prerequisite: EAS100Y1 (minimum grade 67%)

#### EAS201Y1 Modern Chinese II for Students with Prior Background 26T, 52S

As a continuation of EAS101Y1. Those who are suitable for this course but have not studied some content of EAS101Y1, especially pinyin, must make an effort to catch up by themselves. Exclusion: EAS200Y1, EAS290Y1, LGGB01H3F, LGGB02H3S, or those with near native fluency in any Chinese dialect.

# East Asian Studies

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## **EAS290YI Chinese Language for Non-Mandarin Speakers I 78S**

For students who speak a Chinese dialect other than Mandarin and have acquired a basic knowledge of written Chinese. Gives basic knowledge of spoken Mandarin and ability to read both literary and modern texts.

## **EAS300YI Modern Standard Chinese III 52S**

An intermediate level language course. Original writings chosen from the literature and social history of modern China. Oral discussion, written composition, selective translation, and techniques of reading for comprehension.

Exclusion: EAS290YI. Not open to native speakers of Chinese  
Prerequisite: EAS200YI and EAS201Y (minimum 70 % or permission of instructor)

Recommended preparation: EAS206YI

## **EAS302Y Contemporary Chinese Periodicals 52L**

Further development of Chinese proficiency by studying various genres of articles in newspapers, magazines and journals on contemporary Chinese society and culture.

Prerequisite: EAS201YI (minimum 60%), EAS300YI (minimum 63%) or permission of the instructor

## **EAS400YI Modern Standard Chinese IV 78S**

Further study of texts for a wide range of topics on Chinese society and culture

Prerequisite: EAS300Y (minimum 73%) or permission of the instructor

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## Japanese

### **EAS120YI Modern Standard Japanese I 52L, 78T**

An introduction to the basic elements of Japanese language, and the development of listening comprehension, speaking, reading and writing skills. Along with the hiragana and katakana systems of writing, approximately 220 kanji are introduced. Some cultural aspects are introduced as well. Both lectures and tutorials are mandatory. Open only to students with no background in Japanese. Those who have ever studied Japanese (e.g. at high school) and/or those who have ever lived in Japan need to attend an interview to receive permission to take this course

Exclusion: EAS121HI

### **EAS121HI Japanese I for Students with Prior Background 26L, 39T**

Appropriate for those who have learned Japanese for more than three months but less than a year in an academic institution. The knowledge of hiragana and katakana as well as 50 basic kanji is required. Must be familiar with ways to state past/non-past events and to describe things in a simple sentence. Some cultural aspects are introduced as well. Both lectures and tutorials are mandatory. Open only to students with some background in Japanese. Those who have ever studied Japanese (e.g. at high school) and/or have ever lived in Japan need to attend an interview to receive permission to take this course

Exclusion: EAS120YI

### **EAS220YI Modern Standard Japanese 78L, 52T**

An advanced beginners' level language course. An introduction to complicated sentence structures and basic vocabulary for daily life. All four language skills are emphasized and approximately 300 kanji are introduced. Some cultural aspects are introduced as well. Both lectures and tutorials

are mandatory. Open only to those whose Japanese level is equivalent to Level 4 of Japanese Language Proficiency test and/or to those who have successfully completed a full year Japanese language course at other academic institution. Those who have not taken EAS120Y/EAS121HI or do not have appropriate prerequisite need to pass a placement test followed by an interview.

Prerequisite: EAS120YI/EAS121HI (minimum 75%).

### **EAS320YI Modern Standard Japanese III 130S (formerly EAS 348HI, 349HI)**

This is a low intermediate level course. Appropriate for those who have learned Japanese for two years in an academic institution and/or who have passed Level 3 of the Japanese Language Proficiency Test. The knowledge of the strong foundation of the beginners' level grammar and 500 basic kanji are required. Developing all four skills (speaking, listening, reading and writing) is equally focused. All the classes are conducted in a seminar setting. Those who have not taken EAS220Y or do not have an appropriate prerequisite need to pass a placement test followed by an interview

Prerequisite: EAS220Y (75% minimum)

Exclusion: EAS348HI, 349HI

### **EAS460YI Modern Standard Japanese IVa 78S (formerly EAS460HI)**

This is a high intermediate level course. Focused on oral/aural communication. Emphasis is on acquisition of vocabulary, spoken styles and communication strategies that are required to carry formal/informal conversation in contemporary Japanese society. Native or near-native speakers are not permitted to take this course. Those who have not taken EAS320Y and/or do not have appropriate prerequisite must attend an interview to receive permission to take this course.

Prerequisite: EAS320YIY (minimum 70%)

Exclusion: EAS460HI, EAS349HI

### **EAS 461YI Modern Standard Japanese IVb 78S (formerly EAS461HI)**

This is a high intermediate level course. Focused on advanced reading and writing skills. Emphasis is on acquisition of advanced grammar, vocabulary/kanji and expressions especially in authentic written Japanese texts. Native or near-native speakers are not permitted to take this course. Those who have not taken EAS320Y and/or do not have appropriate prerequisite must attend an interview to receive permission to take this course.

Prerequisite: EAS320Y (minimum: 70%)

Exclusion: EAS 349HI, 461HI

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## Korean

### **EAS110YI Modern Standard Korean I 104S**

An introductory Korean language course open to students with no prior knowledge of Korean. Comprehension, speaking, reading and writing are covered but the main emphasis is given to spoken Korean.

### **EAS210YI Modern Standard Korean II 52S**

Students study grammatical structure in depth through reading various forms of writing. Attention given to idiomatic expressions with emphasis on the use of language in actual context.

Prerequisite: EAS110YI

**EAS216YI Modern Standard Korean for Students with Prior Background 52S**

For students with limited prior background in spoken and/or written Korean. Reading, speaking, writing and grammar are equally emphasized. Access is limited and based on the results of a placement interview.

Exclusion: EAS210YI, EAS110YI

Prerequisite: Placement test

Recommended preparation: Limited prior background in spoken/or written Korean

**EAS310YI Modern Standard Korean III 104S**

Expansion of vocabulary, practice in reading comprehension and active skills of writing and conversation are emphasized. Students participate in discussions and compose short essays. Selected readings include different styles of work on Korean culture, history, society and literature.

Prerequisite: EAS210YI

**EAS410YI Modern Standard Korean IV 52S**

Emphasis on communicative skills, grammatical structure, efficient reading ability and composition. Readings from original writings on various aspects of Korean culture.

Prerequisite: EAS310YI

**EAS415YI Advanced Readings in Korean 52L**

This course provides various readings of original texts and newspapers for students with knowledge and language ability at least equivalent to those who have successfully completed EAS210YI. Besides extensive reading, the course introduces 800 Chinese characters often used in mixed-scripts.

Prerequisite: EAS210YI

**Vietnamese**

**EAS104YI Elementary Vietnamese 78S**

An introductory course for students, with equal emphasis on reading, writing, speaking and grammar.

**Sanskrit**

**EAS282YIY Elementary Sanskrit 104S (formerly EAS180YI)**

An introduction to the language of traditional Indian civilization. Good knowledge of grammatical terminology is necessary.

Exclusion: EAS180YI

**EAS379HI The History, Structure and Politics of the Hindi Language 52L, 26P**

This course traces the origins and development of Hindi/Urdu via a multitude of Northern Indian dialects to the present day Modern Standard Hindi. The linguistic development in the late 19th and the 20th centuries is intimately linked to the emerging Indian, especially Hindu, nationalism. The politically complicated relationship between Hindi and Urdu will be highlighted.

Knowledge of the devanagari script is required.

Recommended Preparation: 1 year of Hindi, Urdu, Sanskrit or other Indo-Aryan language

**EAS382HI/ Intermediate Sanskrit 39L/78L YI**

Continuation of the study of Sanskrit grammar with readings from Classical Sanskrit epic and narrative literature.

Prerequisite: EAS282YI, EAS1500Y

Exclusion: Intermediate Sanskrit Course taken in 2004-05

**EAS480YI/HI Advanced Sanskrit I 26S**

Reading in classical Sanskrit poetry and prose.

Prerequisite: EAS382Y

**EAS482HI Advanced Sanskrit II 26S (formerly EAS482Y)**

Technical Sanskrit: readings from alamkarasastra, dharmasastra, darsana and other non-literary texts.

Prerequisite: EAS382Y

Exclusion: EAS482Y

**EAS Society-Culture Courses**

**100-Series Courses**

**EAS102YI Introduction to East Asian Civilizations 52L, 26T**

Highlights of Chinese, Japanese and Korean civilization to about 1600.A.D. The focus is on political, social and intellectual history, as well as on the interactions among the three cultures. Required for students taking specialist, major and minor programs in East Asian Studies.

**HUM199HI/YI First Year Seminar 52S**

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

**200-Series Courses**

**EAS202YI Modern East Asian History 26L, 26T (formerly EAS204YI)**

Examines how various histories of East Asia can be written by examining specific themes in the history of China, Japan, and Korea from roughly 1600 to the outbreak of the Cold War. Exclusion: EAS204YI; HIS 107YI; Not open to students who took EAS102YI in 2001-2002

**EAS206YI Classical Chinese I 52S**

An introductory reading course in Classical Chinese with emphasis on Grammatical analysis and translation into English. Open only to students enrolled in an EAS Major or Specialist subject POST.

Exclusion: EAS290YI

Prerequisite: Must have already taken at least 3 EAS half courses

Co-requisite: EAS200YI/201YI

Recommended Preparation: Two or more years of Modern Standard Chinese

**EAS209YI Approaches to East Asia 52L**

Intended for EAS specialists and majors, this course introduces various approaches and methodologies for the advanced study of East Asian society and culture. Required for EAS specialists and majors.

**EAS211Y0 Chinese Art 52L**

A survey of the visual arts of China from earliest times to the end of the traditional era: the aesthetics and historical/cultural context of painting, calligraphy, sculpture, architecture, and the other arts. Field trip is included. (Normally offered only in Summer)

**EAS215HI History of Chinese Thought: Tang through Ming Periods 26L, 26P**

This course examines the vibrant "middle period" of Chinese history – a period of profound transformation in which

# East Asian Studies

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some of the most distinctively traditional forms of thought, religious belief, artistic and literary expression, and scholarly practices emerged and developed in China. Topics studied include: the establishment of empire as a norm in China (and its implications); the rise of the literati and literati culture; the examination system; Neo-Confucian philosophy; visual culture; the sciences of the body; and popular and print culture.

**EAS217YI Major Aspects of Contemporary Korea 52L**

A broad perspective on contemporary Korea. Emphasis is on the last 30 years of political dynamics on the peninsula which brought about the “Korean-style democracy” and “Korean-style economy” (chaebol), plus Juche ideology in North Korea.

**EAS233HI History of China’s Performing Arts 26L**

An historical overview of Chinese theatre, a reading of selected texts, viewing of videotaped performances and class discussions of the characteristics of this art form.

Enrolment priority: Given to students enrolled in an EAS program and Drama students. Normally offered only in Summer.

**EAS235HI Perceptions of China in Japanese Literature (formerly EAS235YI) 26L**

Lectures and discussions on Japanese literary negotiations with China, the Chinese and Chineseness, ranging from celebration of the same cultural practice, to nativist resistance to China the hegemonic, to aestheticization of China the exotic/erotic. Required readings are available in English translation, which include: Tale of Genji, Tale of Middle-Councillor Hamamatsu (medieval romance); Haku Rakuten (No play); Battles of Coxinga (Kabuki play); Three-Cornered World (by Soseki); Wild Goose (by Ogai)

Exclusion: EAS235YI

**EAS237YI Japanese Cinema: Film Form and the Problems of Japanese Modernity 52S**

How film aesthetics relate to the most profound socio-historical problems of Japanese modernity. How various film makers employ cinematic form to engage the social problems of their moment.

**EAS238HI Japanese Poetry & Fiction: Earliest Times to the 14th Century 26L**

The art of narrative and poetry from Japan’s creation myths through medieval monk-poets. An introduction to Japan’s classical literature. (Readings in English)

**EAS245HI Pre-Modern Japanese History 26P**

A survey of the history of pre-modern Japan from earliest recorded histories to the disintegration of the feudal system in the 19th century. Uses a wide range of translated primary Japanese texts to illuminate the emergence of cultural forms and their conjunctions with social, economic, religious and political trends.

Prerequisite: EAS102YI

**EAS241HI History of Chinese Philosophy 39L**

An historical and systematic introduction to the basic ideas of the main Chinese philosophical schools and their development, including Confucianism, Daoism, Buddhism, and Neo-Confucianism; the challenge of Western thought and the emergence of modern Chinese philosophy.

Exclusion: RLG274HI, PHL237HI

**EAS246HI Pre-Modern Japanese Cultural History 26L, 13T**

A survey of the history of pre-modern Japan from earliest recorded histories to the disintegration of the feudal system in the 19th century. Uses a wide range of translated primary Japanese texts to illuminate the emergence of cultural forms and their conjunctions with social, economic, religious and political trends

Recommended preparation: EAS102YI

**EAS247HI Japanese Culture & Modernity 26L, 13T**

This course provides an historical narrative of the development of the capitalist mode of production in Japan, from the mid-19th century to the present day. Readings will include texts from various disciplines: economics, philosophy, social and labor history, literature.

Recommended preparation: EAS204YI, 246HI

**EAS256HI Chinese Literature (Pre-Qin to Tang) (formerly EAS336HI) 26L**

A survey course of major works in premodern Chinese literature, including poetry, essays, and short narratives from the pre-Qin through Tang eras (11<sup>th</sup> BCE – 10<sup>th</sup> C CE). Readings are available in translation and in the original. All lectures and coursework are in English. Enrolment priority: Students enrolled in an EAS subject POST.

Exclusion: EAS336YI, EAS336HI

**EAS257HI Chinese Literature (Song to Qing) (formerly EAS337HI) 26L**

A survey course of major works in premodern Chinese literature, including poetry, essays, short narratives and drama from the Song through Qing dynasties (10<sup>th</sup>C – 19<sup>th</sup>C). Readings are available in translation and in the original. All lectures and coursework are in English. Enrolment priority: Students enrolled in an EAS subject POST.

Exclusion: EAS337YI, EAS337HI

**EAS271HI 20th Century Korean History (formerly EAS271YI) 26L**

A survey of the history of Korea from the Tonghak uprising and Sino-Japanese war of 1894-1895, through the colonial period, division, and civil war, to the democratization movement.

Exclusion: EAS271YI

**EAS272HI Post-War Korean Society & Culture 26L**

This course focuses on critical analysis of South Korean film and literature as a way of understanding political and cultural contexts of post-Korean War South Korean Society and Culture. This class is devoted to developing critical perspectives on historical context and cultural representation of Korea. In particular, it introduces students to ongoing construction of identities about marginalized Koreans through major political incidents, such as Kwangju uprising, and LA incident.

Exclusion: EAS351HI

Prerequisite: EAS271H; EAS209YI for EAS students

**EAS284HI Modern Chinese Literature 26L**

This course offers a critical examination of twentieth-century Chinese literature. It aims to explore the various ways of being modern as well as different meanings of writing Chinese literature. We will focus upon the important developments of literary writing over time, from the inception of New Literature in the 1910s, the development of realism and modernism of the 1930s, to the emergency of post-revolution and postmodernist

writings of the 1990s. Great emphasis is also placed on generating a dialogue on interpretations of key works. In doing so, we will be exercising the skills of reading literary works in terms of aesthetic choices and strategies of cultural politics. This is a Humanities course.

**EAS293HI      Fundamentals of Japanese      26L**  
**Grammar**

This course is designed for those who wish to develop a thorough knowledge of Japanese Grammar in order to advance all aspects of language skills to a higher level. All grammatical items introduced in elementary levels are examined from both linguistic and cultural perspectives in depth well beyond regular language courses.

Prerequisite: EAS120Y1/EAS121HI

Recommended Preparation: LIN204H

**EAS295Y0      Selected Topics in East      TBA**  
**Asian Studies**

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.

**EAS299Y1      Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

### 300-Series Courses

**JMC301Y1      State & Society in 20th      52L**  
**Century China**

This course explores China's efforts to construct a modern and effective political order in the face of powerful demographic and revolutionary challenges. The clash between competing ideologies, political and social movements and institutional alternatives in the context of rapid social and economic change are analyzed.

Prerequisite: EAS102Y1/HIS280Y1/328Y1/JMC201Y1/POL215Y1

This course is classified as both a Humanities and Social Science course

**EAS 303HI      Technology of Social Engineering:      26L**  
**Women in 20th Century East Asia**

This course aims to teach how East Asian modern societies were engineered through projecting women into particular being/positions. "New women" discourse in early 20<sup>th</sup> century and industrial motherhood/wifehood to late 20<sup>th</sup> century in Japan, China, and Korea will be the central theme.

Prerequisite: EAS209Y1

**EAS305HI      Art and Literary Theory of      52L**  
**Pre-Modern China in Translation**  
**(formerly EAS305Y1)**

A survey course of works of Chinese painting and calligraphy theory and literary criticism from the pre-Qin period to the Qing dynasty. Readings are available in English.

Exclusion: EAS305Y1

**EAS306Y1      Classical Chinese II      52S**  
**(formerly EAS335Y1)**

The course helps students gain more in-depth control of grammatical structures, read classical materials with greater ease and discuss academic and scholarly topics more articulately.

Prerequisite: EAS206Y1 (minimum 70%)

**EAS307HI      Chinese Political Philosophy      26S**

The course analyses both historically and systematically the development of Chinese political philosophy from ancient times to the present day.

Prerequisite: PHL237HI

**EAS309HI      Modern Chinese Prose      26S**

A survey of representative works of prose written by twentieth-century Chinese writers. This course focuses on reading texts, as well as analyzing their textual structure, aesthetic values, and historical context. Readings are available in translation and in the original.

**EAS311HI      A History of Japanese Monsters      26L**

This course will examine the historical development of Japanese monsters, from roughly the 7-8th centuries to modern times.

We will 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: EAS102Y1

**EAS318HI      Rethinking Modernism: The      26L**  
**Perspectives of Mainland China,**  
**Taiwan and Hong Kong**

Modernism is one of the important cultural heritages of the last century that call for critical reflections in light of novel perspectives and new methodologies. Postmodern critical thinking and postcolonial scholarships have in particular made significant impact on ways of rethinking modernism across national histories. This course takes various forms of modernism(s) across China, Taiwan and Hong Kong as the object of study, and the postcolonial and postmodernist approaches to modernism as the refashioned methodological possibilities. Readings of main modernistic writings, studying cinema and arts originated from the above different localities. Discussions on such questions as how can theoretical generalizations about modernism be adequately grounded in interconnected histories, languages, as well as experiences of colonialism and modernity? How does the temporality of modernism get translated across different locations of writing? How do we understand the lines of solidarity and tension among artists and writers of different camps or localities? The goal of this course is not to find a better definition for modernism but to release modernisms to fresh ways of thinking and imagination.

**EAS324HI      Mysticism in East Asia Revisited      26L**

In this course we will explore the topic of mysticism in East Asia by paying close attention to and questioning the relation between the metaphors, experiences, texts, behaviors, practices, and objects that we often label "mystical." Sources from Daoism, Buddhism, local cults, medicine, new religions, and popular media in East Asia will be consulted.

Recommended Preparation: EAS102Y1

**EAS325HI      The Body in East Asian Religions      26L**

In this course we will examine the history of the body and its relation to particular forms of religiosity in East Asia. What influence did the religious traditions of this region have on the way in which the body was constructed and disciplined? What role did the body play in the development of these traditions? Both pre-modern and modern forms of religiosity will be considered.

Recommended Preparation: EAS102Y1

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## **EAS327HI Japanese Fiction and the Nation 26S**

The focus is on modern Japanese literature, with special attention given to literature's relation to the nation. Students track how this literature transforms throughout Japanese modernity and how its meaning and effects function to simultaneously tie together and pull apart national identity. Prerequisite: At least one course in literature or East Asian Studies

## **EAS330HI Narrative Strategies in Modern Japanese Fiction 26S**

Discussion of narratives by Natsume Soseki, Mori Ogai, Tanizaki Jun'ichiro, and Ibuse Masuji, with attention to issues in narratology and contemporary narrative studies such as: the voice and perspective; the gender and power relationships of the narrator-narratee-narrated; the act of narrating, writing, listening and reading; and metafictional paradox. Reading are assigned from secondary and theoretical materials. All readings are available in English.

## **EAS334YI The Chinese Novel 52L**

The development of Chinese fiction from earliest times with emphasis on the twentieth century. Readings in English translation; lectures in English. Normally offered during summer.

## **EAS338HI Classical Daoism 52L, 26P**

This course will examine some major issues of classical Daoist thought, such as Dao and cosmos, body and self, human nature, language and knowledge, political visions etc., based on both textual and ideological analysis of some Daoist works such as the Laozi, the Zhuangzi, and some Huanglao Daoist texts, to be updated with recently unearthed manuscripts in silk and bamboo slips.

Prerequisite: PHL237HI, EAS241HI

## **EAS340YI The Chinese: Society & Culture in Transition (formerly EAS340HI) 52S**

The course explores issues of identity, self, and community among other topics in a broad exploration of cultural transformation in China.

Exclusion: EAS340HI

Recommended preparation: EAS102YI

## **EAS342HI Art and Religious Experience in Japan 26L**

Experience, ritual, discipline and training in Japanese art and religion. Art as religion, and religion as art. Shinto, mountain cults, shamanism, divination, esoteric Buddhism, Zen, the folk arts movement, music, internationalism in modern Japanese culture. Illustrated with slides and other material.

## **EAS344HI Topics in Chinese Society and Culture 26S**

This course addresses selected themes and issues in China's complex process of modernization and reform, the format and requirements to vary according to theme, and class and instructor preferences and interests.

Recommended preparation: One course on modern China or East Asia or equivalent

## **EAS345YI The Rise of Greater China: Issues & Topics (formerly EAS345HI) 52S**

This course looks at China in regional perspective, including issues of Taiwan, Hong Kong and People's Republic of China economic integration. The role of overseas Chinese communities globally and in Southeast Asia also receives attention. The form and focus of the course varies according

to class and instructor interests. Normally, offered only in the Hong Kong Summer Program.

Exclusion: EAS345HI

Recommended preparation: One course on modern China or East Asia or equivalent

## **EAS346HI Self and Imagination in Pre-Modern China 52L**

In this seminar we will explore the diverse and intriguing ways in which subjectivity was conceived in pre-modern China (up to the twelfth century) by way of the various images thinkers invoked to make sense of it. Works studied include: Warring States philosophical treatises; Buddhist and religious Daoist texts on meditation and self-cultivation; literary theory and poetry; philosophical prose essays by literati; and painting.

## **EAS347HI Everyday Life in Modern Japan 26L**

The history of modern Japan around the problem of "everyday life" and its relationship to capitalism. Using a range of literary, philosophical, economic and ethnographic materials that deal with the development of capitalism in Japan, as well as Japanese colonialism, imperialism and fascism, explores ways to specify and critique what is called "everyday life".

Recommended preparation: EAS247HI/281HI/YI

## **EAS361YI Zen Buddhism 52L**

This course will serve as an introduction to the Zen Buddhist traditions of China, Korea, and Japan. A heavy emphasis will be placed on the radical views of history, language, ritual, self, and enlightenment espoused by these traditions. The course will also examine 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. Readings will include both primary material in translation and secondary scholarship.

This is a Humanities course.

## **EAS362YI Classical Japanese 52S**

Introduction to classical Japanese, followed by readings of various short works by classical authors.

Prerequisite: EAS220YI

## **EAS368YI The Philosophy of the Buddha (formerly EAS260YI) 52S**

The philosophy of the Buddha as preserved in the Pali Canon and its development in the Early Schools in India.

Exclusion: EAS260YI

Recommended preparation: RLG206YI

## **EAS369YI Transformation of Buddhist Practice in the Contemporary World 52L**

The course explores various forms of traditional Buddhist practice in relation to Buddhist philosophy, and observes the transformation of these practices in the contemporary world. Principal studies include Theravada tradition, Tibetan Buddhism, Chinese Pure Land and Chan traditions. To provide a foundational understanding of Buddhist philosophy and its relation to meditative practice. This course will also examine the influence of Buddhism on films and material culture.

Recommended preparation: RLG206YI

## **EAS372HI Early Korean History 26L**

This course is a survey of issues in early Korean history with particular attention to the uses of and approaches to ancient history in contemporary Korea.

Prerequisite: EAS271HI/272HI



**EAS373HI Choson History 26L**

This course examines various approaches - economic, social, gender, political, international, and cultural - to the history of Choson Korea.

Prerequisite: EAS271HI/272HI

**EAS374HI Modern Japan and Colonialism 52L**

This course interrogates the history of Modern Japan from the perspective of Japan's colonial exploits in East Asia. The course will also address 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: EAS247HI

**EAS379HI The History, Structure and Politics of the Hindi Language 52L, 26P**

This course traces the origins and development of Hindi/Urdu via a multitude of Northern Indian dialects to the present day Modern Standard Hindi. The linguistic development in the late 19th and the 20th centuries is intimately linked to the emerging Indian, especially Hindu, nationalism. The politically complicated relationship between Hindi and Urdu will be highlighted.

Knowledge of the devanagari script is required.

Recommended Preparation: 1 year of Hindi, Urdu, Sanskrit or other Indo-Aryan language

**EAS389YI History of Korean Religion 52L, 26P**

This course offers a broad overview of Korean religious tradition.

**EAS395Y0 The Development of Greater China TBA**

To achieve an in-depth understanding of China, this course discusses China's national and international issues in the "living textbook." It emphasizes current events and hot topics in the media. The focus may vary depending on current events and the instructor's interests. Normally offered only in the Woodsworth College Hong Kong Summer Programme.

**EAS398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**400-Series Courses**

**EAS407HI Textual Analysis of Classical Chinese Philosophy 26S**

Readings of texts from ancient and medieval Chinese philosophy. Beginning by linguistic (especially semantic) analysis of key words, structure and meaning of sentences, paragraphs and text as a whole. Philosophical analysis proceeds from linguistic analysis.

Prerequisite: PHL237HI, EAS306YI

**EAS408HI Modern Taiwanese Literature 26S**

A general survey of modern Taiwanese literature from 1949 until today. It attempts to examine issues such as historical/cultural context, oral/written language, self-identification, gender, human rights, etc., central to understanding the Taiwanese experience. Readings are available in translation and in the original.

**EAS411HI Art and Archaeology of Early China I 52L, 26P**

Introducing to recent archaeological discoveries in China, this course explores material cultures and artworks of early China covering periods of prehistory, the Bronze Age, and Qin and Han Dynasty. This course (Part I) focuses on cultural history and general archaeological study in a chronological order at a beginning level.

**EAS412HI Art and Archaeology of Early China II 52L, 26P**

Introducing to recent archaeological discoveries in China, this course explores material cultures and artworks of early China covering periods of prehistory, the Bronze Age, and Qin and Han Dynasty. This course (Part II) focuses on special topics of art and archaeology designed for students with interests in Chinese archaeology.

Prerequisite: EAS411HI

**EAS418HI Topics in Chinese Art Theories 26S**

This course will focus on theories of Chinese arts by critically analyzing various theoretical texts on music, painting, calligraphy, literature, in the form of special treatises and documents recorded in the Classics.

Prerequisite: PHL237HI, EAS306YI

**EAS431HI Advanced Topics in Japanese Cinema 26S**

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: EAS237YI

**EAS444HI The City, Body and Text in Modern Japanese Literature 26S**

Examines how the city and body exert formative forces on the text, and how the practice of writing and reading texts might inform the ways we, corporeal beings, experience the city as manifested in the nineteenth century Japanese literature. Required readings are available in English.

Prerequisite: Successful completion with the minimum grade of 75% in EAS235, EAS237, EAS327, EAS330, EAS431, EAS456 or one of the humanities program at U of T (e.g., English, art history, philosophy, etc.)

**EAS452HI The Construction of Gender in Traditional China 52L, 26P**

This course examines the philosophical, societal and cultural influences which defined woman/female/femininity and man/male/masculinity in China before the seventeenth century. Some attention is devoted to sexual diversity.

Recommended Preparation: EAS102YIY

**EAS453HI Gender, Sexuality & Modernity in China, Korea and Japan 52L, 26P**

This course focuses on the changing sexual mores and the challenges to the traditional gender systems of East Asia brought by the processes of modernization and globalization/westernization.

**EAS456HI Japan as seen by ?: Reference, Apparatus, Operation 26S**

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,

# East Asian Studies

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David Mamet, Joy Kogawa, Kazuo Ishiguro, Marguerite Duras, and David Hwang. All the readings, including Japanese literary and theoretical, are available in English.

**EAS457HI Special Topics in Modern Japanese History 26S**

Analyzing contemporary monographs on modern Japanese history. This course will offer a critical survey of existing methodologies and approaches to writing about Modern Japan.  
Prerequisite: EAS 247HI, 347HI

**EAS462HI Ethnographic Literature on Korea: Class, Gender & Family 26L**

This is a seminar course for upper level undergraduate students who are interested in reading ethnographic literature. This course introduces contemporary ethnographic literature written in English on South Korea. Despite the textual focus on anthropological writing, it covers interdisciplinary inquiry into cultural and historical concepts that have shaped people's lives in South Korea. This class is run as a dynamic seminar course with class discussions structured around students' presentations, and with writing and rewriting research paper.  
Prerequisite: EAS209YI for EAS students

**EAS468YI Mahayana Buddhist Philosophy 52S (formerly EAS360YI)**

Close study of selected Indian and Chinese Mahayana texts in translation, with emphasis on Madhyamaka and Hua-yen.  
Exclusion: EAS360YI  
Recommended preparation: RLG206YI

**EAS469YI Chinese Sectarian Buddhism 52L**

This course examines one or more schools of Chinese Buddhism depending upon the expertise of the instructor.

**EAS473HI Modern Korean History Seminar 26S**

An examination of recent research results in the modern Korean history field, focusing especially on the late 19th and 20th centuries  
Prerequisite: EAS271YI

**EAS476YI Democracy and History in Korea 52S**

This course examines approaches to the history of the south Korean democracy movement and the role of history within the democracy movement itself.  
Recommended preparation: EAS271HI

**EAS477YI Missionaries in Korea 52L**

This course examines the works of missionaries in Korea and the socio-political situation of the Choson Dynasty.

**EAS482HI Advanced Sanskrit II 26S (formerly EAS482YI)**

Technical Sanskrit: readings from alamkarasastra, dharmasastra, darsana and other non-literary texts.  
Prerequisite: EAS382YI  
Exclusion: EAS482YI

**EAS488YI/ Hinduism and Politics 52L/26L EAS488HI**

The political expression of Hinduism begins with religious reform movements in the 19th century, and develops into a Hindu nationalism. Although independent India is a secular state, Hindu "fundamentalism" remains a powerful political force. This course analyzes modern Hindu political ideology.

**EAS490HI Introduction to Japanese Linguistics: Syntax and Semantics 78L**

This course introduces Japanese grammatical items in a scientifically and theoretically oriented manner. The goals of the

course are: to gain knowledge of the basic characteristics of sentence structure and meaning in Japanese; to become familiar with selected theoretical analyses; and to develop a repertoire of linguistic vocabulary.

Prerequisite: EAS349HI

Recommended Preparation: LIN100YI, LIN204HI

**EAS493HI Theory and Practice of Japanese Language Instruction 39S**

This course provides an overview of theories and issues in second language teaching for those who are or will be involved in Japanese language teaching. The class discussion includes the theory and history of teaching methods and their theoretical implications. Students will also practice actual teaching in real classroom settings.

Prerequisite: EAS460HI/461HI

**EAS495YI Topics in East Asian Studies 52S**

A guided research course on a common topic of the student's choice. Students are required to produce a 20-30 page paper based on the selected topic.

**EAS496HI Topics in East Asian Studies 26S**

An in-depth study of Chinese, Japanese or Korean culture, history and/or literature. Content in any given year depends on the instructor.

Recommended preparation: Varies from year to year

**EAS497HI Beyond Orientalism 26S**

This course will confront the 'Orientalist' view of the world by looking at one Asian nation regularly exempted from that paradigm-Japan. By examining, among other topics, Japan's emperor system, its construction of a national history, and its own imperialism, this course hopes to point toward other ways of thinking about East and West.

Recommended Preparation: EAS202YI/204YI/247YI/374HI

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## Independent Studies

**EAS434HI/YI Independent Studies TBA**

**EAS435HI/YI Independent Studies TBA**

**EAS436HI/YI Independent Studies TBA**

**EAS437HI/YI Independent Studies TBA**

A scholarly project chosen by the student, approved by the Department, and supervised by one of its instructors. Consult with the East Asian Studies Undergraduate Handbook for more information.

Prerequisite: Five EAS courses

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## Ecology: see Life Sciences: Biology

## Faculty

### University Professor Emeritus

S. Hollander, OC, BScEcon, Ph D, LLD, FRSC

### Professors Emeriti

R.A. Berry, BA, PhD  
R.M. Bird, MA, Ph D, FRSC  
J.D. Bossons, AM, Ph D  
A.A. Breton, OC, BA, Ph D, FRSC  
N.K. Choudhry, MS, Ph D  
J.S. Cohen, MA, Ph D  
J.H. Crispo, B Com, Ph D  
J.H. Dales, MA, Ph D, FRSC  
S.M. Eddie, B Sc, Ph D  
J.E. Floyd, MA, PhD  
M.A. Fuss, MA, Ph D  
M.J. Gordon, MA, Ph D  
W. Haque, MA, M Sc, Ph D  
M.J. Hare, B Com  
G.K. Helleiner, OC, MA, Ph D, FRSC  
J.A. Hynes, AB  
Y. Kotowitz, BA, Ph D  
A.M. Kruger, BA, Ph D  
J.H.A. Munro, MA, Ph D  
D.M. Nowlan, MA, Ph D  
K.J. Rea, MA, Ph D  
S.A. Rea, AB, Ph D  
A.E. Safarian, OC, BA, Ph D, FRSC  
J. A. Sawyer, MA, Ph D  
L.B. Smith, AM, Ph D  
D.A.A. Stager, AM, Ph D  
M.H. Watkins, B Com  
A.M. Watson, B Com, MA  
L. Waverman, MA, Ph D  
T.A. Wilson, AM, Ph D, FRSC  
J.W.L. Winder, MA, Ph D

### Professor and Chair of the Department

A.J. Hosios, M Eng, MA, Ph D

### Professor and Associate Chair, Graduate Studies

A.J. Yatchew, MA, PhD

### Professor and Associate Chair, Undergraduate Studies

FR. Casas, MSc, Ph D

### University Professor

M. Trebilcock, FRSC, LLM

### Professors

V.A. Aivazian, BS, Ph D (University of Toronto Mississauga)  
G. Anderson, M Sc, Ph D (University of Toronto Mississauga)  
M. Baker, MA, Ph D  
H.D. Benjamin, MA, Ph D  
L. Brandt, BS, Ph D  
J.L. Carr, MA, Ph D  
M.G.S. Denny, B Sc, Ph D

D.N. Dewees, B Sc, LL B, Ph D  
M. Faig, MA, PhD (University of Toronto Mississauga)  
D.K. Foot, AM, Ph D (N)  
C. Gourieroux, Ph D  
M. Gunderson, MA, Ph D  
I. Horstmann, BA, Ph D +  
S. Howson, MA, Ph D  
G.V. Jump, BA, Ph D  
H. Li, BS, PhD  
G.F. Mathewson, B Com, Ph D  
T. McCurdy, BA, Ph D +  
A. Melino, BA, Ph D (University of Toronto Mississauga)  
J.M. Mintz, MA, Ph D  
D.E. Moggridge, MA, Ph D (T)  
M.J. Osborne, BA, Ph D  
J.E. Pesando, MA, Ph D  
F.J. Reid, M Sc, Ph D (University of Toronto Mississauga)  
A. Rotstein, BA, Ph D  
S. Shi, MA, PhD  
M. Smart, MA, PhD  
A. Siow, BA, Ph D  
W.C. Strange, MA, Ph D +  
D. Treffer, MA, Ph D  
X. Zhu, MS, Ph D (University of Toronto Mississauga)

### Associate Professors

V. Aguirregabiria, MSc, PhD  
M. Alexopoulos, MA, Ph D  
E. Damiano, MA, Ph D  
G. Durantoni, MA, M Sc, Ph D  
A. Erosa, MA, Ph D (University of Toronto Mississauga)  
L. Fuster, MA, Ph D  
G. Hamilton, MA, Ph D  
J. Maheu, MA, Ph D (University of Toronto Mississauga)  
R. McMillan, BA, Ph D (University of Toronto Mississauga)  
C. Pitchik, M Sc, Ph D (University of Toronto Mississauga)  
D. Restuccia, MA, Ph D  
J. Roberts, MA, Ph D  
M.B. Stabile, MA, Ph D (University of Toronto Mississauga)  
M.A. Turner, AM, Ph D

### Assistant Professors

S. Board, M Phil, Ph D (University of Toronto Mississauga)  
G. Bobonis, BA, PhD  
E. Choo, M Comm, MA, M Phil, Ph D  
M. Duarte, MA, Ph D (University of Toronto Mississauga)  
G. Goh, MA, Ph D  
G. Kambourov, PhD (University of Toronto Mississauga)  
E. Malinova, MA, Ph D  
S. Mechoulam, MA, Ph D  
J. Mondria, MA, Ph D  
P. Oreopoulos, MA, Ph D (University of Toronto Mississauga)  
A. Park, Ph D (University of Toronto Mississauga)  
C. Serrano, MS, MA, Ph D  
H. Shierholtz, MS, MA, PhD (University of Toronto Mississauga)  
J. Van Biesebroeck, MA, Ph D (University of Toronto Mississauga)

# Economics

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## Adjunct Professor

J. Crean, MA, Ph D  
D.P. Dungan, MA, Ph D  
P. Masson, BA, Ph D +

## Lecturers

G. Indart, MA, Ph D  
J. Murdock, M Phil, Ph D

## Sessional Lecturers

M. Anjomshoa, MA, M Phil  
K. Furlong, MA, Ph D  
G. Gagnon, MA, Ph D  
R. Ghaeli, MA, PhD  
B. Kralj, MA, Ph D  
A. Mazaheri, MA, Ph D  
R. Satchu, MBA  
P. Tomlinson, BA, Ph D  
W.G. Wolfson, B Com, MA  
Z.F. Yang, MA  
P.M.V. Yu, MS, Ph D

+ cross appointed

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.

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 - regardless of whether it is capitalist, socialist, or communist in 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, and to equip them for intelligent appraisal of contemporary economic problems. It is also intended to make students aware of the nature of economic science, and of the directions in which economic theory is moving.

Economic theory now makes considerable use of mathematics in some of its enquiries. A student who chooses to specialize in economics should take at least one basic course in mathematics. More such courses may be taken, and several economics courses draw on mathematical analysis.

Because of advances in economic theory, an undergraduate degree is 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.

Undergraduate Administrator: R. Innes

Commerce Assistant: J. Fan

Enquiries:  
100 St. George Street, 4th floor (416-978-4603)

## Economics Programs

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Enrolment in Economics programs is based on grades in ECO 100Y, completion of MAT 133Y/135Y/137Y and a minimum CGPA (please read entry requirements carefully). Consult the *Registration Handbook & Timetable* and *Departmental Handbook* for details.

### Economic History & Economics (Arts program)

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Enrolment in this program is limited to students with 67% in ECO 100Y or 80% in ECO 105Y, MAT 133Y/135Y/137Y and a CGPA of 2.0.

#### Specialist program:

(13 full courses or their equivalent, including at least one 400-series ECO full-course equivalent)

First Year:

ECO 100Y/105Y; MAT 133Y/135Y/137Y

Higher Years:

1. ECO200Y/206Y, ECO202Y/208Y, ECO220Y/227Y/STA (250H,255H)/(257H,261H)
2. Four full Economic History courses from: 301Y, 302H, 303Y, 307H, 308H, 309H, 321Y, 342Y, 353Y, 354H, 355H, 423H, 429Y, 435H. Up to one HIS course may be taken to complete this requirement.
3. Four additional full ECO courses (not from above list)

### Economic History (Arts program)

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Enrolment in the Economic History Programs is limited to students with 67% in ECO 100Y or 80% in ECO 105Y, MAT 133Y/135Y/137Y and a CGPA of 2.0.

#### Major program

(6 full courses or their equivalent)

First Year:

ECO 100Y/105Y; MAT 133Y/135Y/137Y

Higher Years:

1. ECO 200Y/206Y
2. Three full Economic History courses from: 301Y, 302H, 303Y, 307H, 308H, 309H, 321Y, 342Y, 353Y, 354H, 355H, 423H, 429Y, 435H

#### Minor program:

(4 full courses or their equivalent)

1. ECO 100Y/105Y; MAT 133Y/135Y/137Y
2. ECO 200Y/206Y
3. One full Economic History course from from: 301Y, 302H, 303Y, 307H, 308H, 309H, 321Y, 342Y, 353Y, 354H, 355H, 423H, 429Y, 435H

NOTE: Students enrolled in the Minor Program in Economic History cannot be enrolled in the Minor Program in Economics or in the Minor Program in Environmental Economics.

### Economics (Arts program)

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#### Specialist program:

(13 full courses or their equivalent, including at least one 400-

series course)

Enrolment in the Specialist Program is limited to students with 70% in ECO 100Y, and 63% in MAT 133Y or 60% in MAT 135Y or 55% in MAT 137Y, and a CGPA of 2.3.

First Year:

ECO 100Y; MAT 133Y/135Y/137Y

Higher Years:

1. ECO 206Y, 208Y, ECO 227Y/STA (257H, 261H), ECO 325H, 326H, 327Y, 429Y
2. One full course in Economic History from the following: 301Y, 302H, 303Y, 307H, 308H, 309H, 321Y, 342Y, 353Y, 354H, 355H, 423H, 435H
3. Four full additional 300+ series ECO courses, no more than one of which may be a course in Economic history.
4. Additional preparation is strongly recommended: MAT 223H/240H, MAT 235Y/237Y/ECO 210H

### Major program:

(7 full courses or their equivalent)

Enrolment in this program is limited to students with 67% in ECO 100Y or 80% in ECO 105Y, MAT 133Y/135Y/137Y and a CGPA of 2.0.

First Year:

ECO 100Y/105Y; MAT 133Y/135Y/137Y

Higher Years:

1. ECO 200Y/206Y, 202Y/208Y/209Y, ECO 220Y/227Y/STA (250H, 255H)/(257H, 261H)
2. Two full additional 300+ series ECO courses, no more than one of which may be a course in Economic History

### Minor program:

(4 full courses or their equivalent)

Enrolment in this program is limited to students with 67% in ECO 100Y or 80% in ECO 105Y, MAT 133Y/135Y/137Y and a CGPA of 2.0.

1. ECO 100Y/105Y; MAT 133Y/135Y/137Y
2. ECO 200Y/206Y
3. One full 300+ series ECO course, not in Economic History.

NOTE: Students enrolled in the Minor Program in Economics cannot be enrolled in the Minor Program in Economic History or in the Minor Program in Environmental Economics.

### Economics (Commerce & Finance) (B.Com.) - See Commerce (page 40)

### Environmental Economics - See Centre for Environment

### Economics (Quantitative Methods) (Science program)

Enrolment in this program is limited to students with 70% in ECO 100Y, and 55% in MAT 137Y, and a CGPA of 2.3.

### Specialist program:

(12 full courses or their equivalent, including at least one 400-series course)

First Year:

ECO 100Y; MAT 137Y/157Y

Higher Years:

1. APM 236H/CSC(165H,236H)/240H/263H

2. ECO 206Y, 208Y, 325H, 326H, 327Y
3. MAT 223H/240H, 235Y/237Y
4. ECO 227Y/STA (257H, 261H)
5. One full course from Group A and two full courses from A or B (for a total of three):

### Group A:

ECO 416H, 418H; APM 236H, 462H; CSC 148H, (165H, 236H)/240H, 207H, 260H, 263H, 336H/350H, 340H, 354H, 363H/365H, 373H/375H, MAT 315H, 337H; STA 322H, 352Y, 414H, 422H, 447H, 452H, 457H

### Group B:

Any 300+ series ECO course

### Note:

At least four 300+ series courses, including at least one 400-series course must be completed for this program.

### Financial Economics (Science program)

### Specialist program:

(13 full courses or their equivalent, including at least one 400-series full course or its equivalent)

Application to this program is limited to students with 70% in ECO100Y/100Y5, 63% in MAT133Y/133Y5 or 60% in MAT134Y/135Y/135Y5 or 55% in MAT137Y/138Y5, 63% in ECO206Y/206Y5, 63% in ECO208Y/208Y5, 63% in ECO227Y/227Y5/STA(257H,261H)/STA(257H5,261H5), completion of at least 8.0 credits and a CGPA of 3.0. This is a limited enrolment program. Students enrolled in this program cannot simultaneously be enrolled in any other Economics specialist, joint specialist, major or minor program in Economics or in the Commerce and Finance program. This applies to both the St. George and University of Toronto Mississauga campuses.

NOTE – Some required courses 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.

First Year:

ECO100Y/100Y5, MAT132Y5/133Y/133Y5/134Y5/135Y/135Y5/137Y/138Y5

Higher Years:

1. ECO206Y/206Y5
2. ECO208Y/208Y5
3. ECO227Y/227Y5/STA(257H,261H)/(257H5,258H5/261H5)
4. ECO325H/325H5, ECO326H/326H5
5. ECO327Y\*/327Y5\*
6. ECO358H/358H5, ECO359H/359H5
7. 5 additional 300+ ECO credits or their equivalent, of which at least 1.5 must be chosen from ECO329H/349H5, ECO460H5, ECO461H/461H5, ECO462H, ECO463H5

\* MAT222H5/223H/248Y5 is strongly recommended as preparation for ECO327Y/327Y5. Students taking one of these MAT courses can have that course count in lieu of one half or a full 300+ ECO credit required for this program

# Economics

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## **Economics and Computer Science (Science program) - See Computer Science**

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### **Economics and Geography (Arts program)**

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Consult Professor A.M. Davis, Undergraduate Coordinator, Department of Geography.

Enrolment in this program is limited to students with 67% in ECO 100Y or 80% in ECO 105Y, MAT 133Y/135Y/137Y and a CGPA of 2.0.

#### **Specialist program:**

(15 full courses or their equivalent, including at least one 400-series course)

First Year:

ECO 100Y/105Y; MAT 133Y/135Y/137Y; GGR 107Y/110Y/124Y

Higher Years:

1. ECO 200Y/206Y, 202Y/208Y, 333Y; GGR 220Y
2. ECO 220Y/227Y/STA (250H, 255H)/(257H, 261H)
3. 2.5 courses from: GGR 233Y, 249H, 252H, 254H, 256H, 323H, 324H, 331H, 332H, 333H, 334H, 344H, 357H, 436H, JGI 346H, other choices from 5. and 6. below
4. Two full courses from: ECO 303Y, 309H, 313H, 314H, 321Y, 336Y, 340H, 342Y, 423H, 425H, 435H
5. One of GGR 271H, 273H, 371H, 373H, 462H, 473H
6. GGR 491Y/two of GGR 415H, 431H, 450H, 459H, 499H, JFG 470H
7. One additional full ECO/GGR course if ECO 220Y/227Y is chosen, or two full courses if STA (250H, 255H)/(257H, 261H) are chosen

### **Economics & Mathematics (Science program)**

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Consult Professor N.A. Derzko, Department of Mathematics, or Undergraduate Secretary, Department of Economics.

Enrolment in this program is limited to students with 70% in ECO 100Y, 55% in MAT 137Y and a CGPA of 2.3.

#### **Specialist program:**

(13 full courses or their equivalent, including at least one 400-series course)

First Year:

ECO 100Y; MAT 137Y/157Y

Second Year:

ECO 206Y, 208Y, ECO 227Y/STA (257H, 261H); MAT (223H/240H, 237Y, 246H)/257Y

Second or Third Year:

APM 236H; MAT 244H/267H

Third Year:

MAT 315H/337H/(327H,357H) (MAT 357H may be taken in Fourth Year)

Third or Fourth Year:

1. APM 462H; ECO 325H/326H
2. Two full 300+series ECO courses
3. One full course from: MAT 309H/315H/334H/337H/344H/363H/464H/any 400-series MAT course/another 300+level STA course, subject to the approval of the advisors.

## **Economics & Philosophy (Arts program)**

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Consult the Undergraduate Coordinator, Department of Philosophy.

Enrolment in this program is limited to students with 67% in ECO 100Y or 80% in ECO 105Y, MAT 133Y/135Y/137Y and a CGPA of 2.0.

#### **Specialist program:**

(15 full courses or their equivalent, including at least one 400-series course)

First Year:

ECO 100Y/105Y; MAT 133Y/135Y/137Y

Higher Years:

1. ECO 200Y/206Y, 202Y/208Y, ECO 220Y/227Y/ STA (250H,255H)/(257H,261H), ECO 429Y
2. Two additional full ECO courses
3. Seven full courses in Philosophy; it is strongly recommended that five be chosen according to the profile specified in the Philosophy Specialist Program, with at least two at the 300+ level.

#### **Note:**

At least four 300+ series courses must be completed for this program.

### **Economics & Political Science (Arts program)**

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Consult Director of Undergraduate Studies, Department of Political Science.

Enrolment in this program is limited to students with 67% in ECO 100Y or 80% in ECO 105Y, MAT 133Y/135Y/137Y and a CGPA of 2.0. Students must also meet the requirements of the Political Science Department (see the Political Science listings).

#### **Specialist program:**

(15 full courses or their equivalent, including at least one 400-series course)

NOTE: The 15 courses must include 8 in ECO, two of which must be 300+ series; and 7 in POL or JPE, including one 300+ series course and one 400-series course. At least one POL course must be in the area of Canadian politics.

First Year:

ECO 100Y/105Y; MAT 133Y/135Y/137Y; POL 103Y/105Y/108Y/214Y

Higher Years:

1. POL 200Y
2. ECO 200Y/206Y, 202Y/208Y, ECO 220Y/227Y/STA (250H, 255H)/(257H, 261H), ECO 429Y
3. ECO301Y/302H/303Y/307H/308H/309H/321Y/342Y/353Y/354H/355H/423H/435H
4. One additional full ECO course
5. One full course from any of the following three fields in Political Science (see Departmental Handbook for breakdown of courses into fields):  
Comparative Politics (Developing)  
Comparative Politics (Industrial)  
International Relations
6. One full course equivalent from: POL 401, 408, 409, 418, 435, 439, 447, 458, 463, 472, 474, 475, 476, 477, 488, 489, JPF 455, JPJ 494
7. Three additional courses in POL or JPE

## **Economics & Sociology (Arts program)**

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Consult Undergraduate Secretary, Department of Economics.

Enrolment in this program is limited to students with 67% in ECO 100Y or 80% in ECO 105Y, MAT 133Y/135Y/137Y and a CGPA of 2.0. Students must have 65% in SOC 101Y, and 70% in each of SOC 200H, 202H, 203Y, and 204H. Students must also have completed 8 full courses and be enrolled in the Sociology Major program.

### **Specialist program:**

(15 full courses or their equivalent, including at least one 400-series course)

First Year:

ECO 100Y/105Y; MAT 133Y/135Y/137Y; SOC 101Y

Higher Years:

1. ECO 200Y/206Y, 202Y/208Y, ECO 220Y/227Y/SOC 300H/STA(250H, 255H)/(257H, 261H)
2. SOC 200H, 202H, 203Y, 204H, 376H, 377H, 387H, 401Y
3. Two of the following pairs of courses: ECO 321Y & SOC 220Y; ECO 310Y & SOC 317Y; ECO 333Y & SOC 205Y; ECO 339Y & SOC 207Y/370Y; ECO 340H plus a second ECO half-course & SOC 301Y; ECO 425H plus a second ECO half-course & SOC 312Y

Note:

At least four 300+ series courses must be completed for this program

## **Economics & Statistics (Science program)**

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Consult Undergraduate Secretary, Department of Economics.

Enrolment in this program is limited to students with 70% in ECO 100Y, 55% in MAT 137Y and a CGPA of 2.3.

### **Specialist program:**

(14 full courses or their equivalent, including at least one 400-series course)

First Year:

CSC 148H/150H/260H; ECO 100Y; MAT 137Y/157Y

Second Year:

ECO 206Y, 208Y; MAT 223H/240H, 237Y; ECO 227Y/STA(257H, 261H)

Third Year:

1. ECO 325H, 326H, 327Y; STA 347H
2. One full 300+ series ECO course
3. STA 352Y

Fourth Year:

1. ECO 416H/418H
2. A 300+ series ECO half-course
3. STA 437H, 457H; one STA half-course from STA 414H/422H/442H/447H
4. One additional half-course from ACT 335H/MAT 244H/267H/a 300+ series ECO or STA half-course

## **Economics Courses**

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See page 33 for Key to Course Descriptions

For Distribution Requirement purposes (see page 27), all ECO courses are classified as SOCIAL SCIENCE courses.

### **SSCI99H1/Y1 First Year Seminar 52S**

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

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### **Note**

Enrolment in most Economics courses above the 100-level and, therefore, in all Economics Programs, is based on grades in ECO 100Y or ECO 105Y and, in some cases, MAT 133Y or MAT 135Y or MAT 137Y. Additional information is contained in the Registration Handbook and Timetable and the Departmental Handbook. Not all courses are offered each year.

### **ECO100YI Introduction to Economics 52L, 26T**

An introduction to economic analysis and its applications: price determination; the role of competition; international trade and finance; the theory of production and employment; the role of money and the banking system; monetary and fiscal policy. NOTE graphical and quantitative analysis are used extensively. Exclusion: ECO105Y

Prerequisite: MCB4U, MGA4U/MDM4U

### **ECO105YI Principles of Economics for Non-Specialists 52L, 26T**

An introduction to the principles and methods of economics in association with policy issues. Lectures cover 24 topics, including economic growth, the importance of productivity, international trade, competitive markets, macroeconomic issues and more specific topics such as rent controls, OPEC, the international debt crisis, trade restrictions, the national debt and sustainable development. Students who intend to complete a minor, major, or specialist program in Economics are advised to take ECO100Y.

Exclusion: ECO100Y

### **ECO200YI Microeconomic Theory 52L, 26T**

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.

Exclusion: ECO204Y, 206Y

Prerequisite: ECO100Y(67%)/ECO105Y(80%); MAT133Y/135Y/137Y

### **ECO202YI Macroeconomic Theory and Policy 52L, 26T**

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 those in the B.Com program; please see ECO209Y.

Exclusion: ECO208Y, 209Y

Prerequisite: ECO100Y(67%)/ECO105Y(80%)

Co-requisite: MAT 133Y/135Y/137Y

# Economics

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## **ECO204Y1 Microeconomic Theory and Applications (for Commerce) 52L, 26T**

Determination of prices and outputs through the interaction of decisions made by households (as consumers in product markets and suppliers in factor markets), business firms (as producers of commodities and employers of factors) and governments. Perfectly and imperfectly competitive markets are examined. Applied examples of how microeconomics can be used to inform government and business decisions are included. This course is restricted to students in the Specialist program in Commerce and Finance (B.Com).  
Exclusion: ECO 200Y, 206Y  
Prerequisite: ECO100Y1(67%), MAT 133Y/135Y/137Y

## **ECO206Y1 Microeconomic Theory 52L, 26T**

This course deals more rigorously and more mathematically with the topics included in ECO200Y and is intended primarily for students in certain Specialist programs.  
Exclusion: ECO200Y, 204Y  
Prerequisite: ECO100Y(70%); MAT133Y(63%)/135Y(60%)/137Y(55%)

## **ECO208Y1 Macroeconomic Theory 52L, 26T**

This course deals more rigorously and more mathematically with the topics included in ECO 202Y and is intended primarily for students in certain Specialist programs.  
Exclusion: ECO202Y, 209Y  
Prerequisite: ECO100Y(70%); MAT133Y(63%)/135Y(60%)/137Y(55%)

## **ECO209Y1 Macroeconomic Theory and Policy (for Commerce) 52L, 26T**

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 B. Com (Commerce and Finance) program.  
Exclusion: ECO202Y, 208Y  
Prerequisite: ECO100Y(67%); MAT133Y/135Y/137Y

## **ECO210HI Mathematical Methods for Economic Theory 26L, 13T**

An introduction to mathematical methods commonly used in economic theory. Topics include unconstrained multivariate optimization, multivariate optimization subject to equality or inequality constraints and differential equations.  
Exclusion: MAT235Y, MAT237Y  
Prerequisite: ECO100Y (67%)/ECO105Y (80%); MAT133Y (63%)/135Y (60%)/137Y (55%)  
Co-requisite: ECO200Y/204Y/206Y

## **ECO220Y1 Quantitative Methods in Economics 52L, 26T**

Numerical and graphical data description techniques; data collection and sampling; probability; sampling distributions; statistical inference; simple and multiple regression analysis. Study methods, the basis for these methods, when each is or is not appropriate, and how to correctly interpret and understand results.  
Exclusion: ECO227Y, GGR270Y, 270H, PSY201H, 202H, SOC300Y, STA107H, 220H, 221H, 247H, 248H, 250H, 255H, 257H, 261H  
Prerequisite: ECO100Y(67%)/ECO105Y (80%); MAT133Y/135Y/137Y

## **ECO227Y1 Quantitative Methods in Economics 52L, 26T**

A rigorous introduction to probability and mathematical statistics intended for economics specialists. Probability and estimation theory, sampling distributions, hypotheses testing, multiple regression analysis. Students should be familiar with the tools used to characterize scenarios where randomness and uncertainty occur in economics and finance.  
Exclusion: ECO220Y, GGR270Y, 270H, PSY201H, 202H, SOC300Y, STA107H, 220H, 221H, 247H, 248H, 250H, 255H, 257H, 261H  
Prerequisite: ECO100Y (70%); MAT133Y (63%)/135Y (60%)/137Y (55%)  
Recommended Co-requisite: MAT 223H/240H, MAT 235Y/237Y/ECO210H

## **ECO230Y1 International Economic Institutions and Policy 52L, 26T**

The key concepts of international trade and finance are reviewed with an eye to understanding contemporary issues and recommending policy initiatives. Attention is given to empirical assessment of alternative trade theories and to broader international relations issues.  
Exclusion: ECO328Y  
Prerequisite: ECO100Y(67%)/ECO105Y(80%/CGPA 2.50)/enrolment in the International Relations Specialist or Major Program, or the IR/Peace and Conflict Studies joint Specialist Program.

## **ECO239Y1 Labour Markets and Policies 52L, 26T**

Application of economic analysis to current issues in labour policy: immigration, retirement, education, unemployment, earnings differentials, employment and pay equity, labour unions, minimum wage, income policies.  
Exclusion: ECO339Y  
Prerequisite: ECO100Y(67%)/ECO105Y(80%)

## **WDW244HI Labour Relations**

See Woodsworth College

## **ECO250Y1/ 251HI/ 252HI Special Topics in Economics 52S/26S**

Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department (see the Undergraduate Secretary for details).  
Prerequisite: TBA

## **ECO299Y1 Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

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## **ECO 301Y1 European Economic History, 1250 - 1750 (formerly ECO201Y1) 52L, 26T**

The development of the west European economy from the apogee of the Commercial Revolution era and the ensuing economic crises of the later - early 14th centuries to the eve of the modern Industrial Revolution, focusing on Italy, Spain, Portugal, France, Germany, the Low Countries and England. Major topics: feudalism, serfdom and other barriers to economic growth; demographic, monetary and other macroeconomic forces; the development of market economies; structural changes in and interactions among the agrarian, commercial, financial, and industrial sectors; overseas expansion



and colonization; the role of Church, state, warfare, and social/political institutions; Mercantilism.

Exclusion: ECO201Y

Prerequisite: ECO200Y/204Y/206Y

**ECO302HI Comparative Economic Institutions in History (formerly ECO302YI) 26L**

Contrasting ways in which the factors of production - land, labour and capital - are organized in human society. Tribal, feudal, mercantilist and market economies are considered. A conceptual framework related to both market and non-market economies is examined, based on the work of Karl Polanyi.

Exclusion: ECO302Y, ECO354H (2001-02 and 2002-03)

Prerequisite: ECO200Y/204Y/206Y

**ECO303YI The Economic History of Modern Europe to 1914 52L, 26T**

The economic development of modern Europe, focusing on urban industrialization in the Netherlands, Great Britain, France, Germany, and Russia, up to World War I. Major topics: technological, institutional, and social factors in economic growth; demographic and monetary forces; structural changes in and interactions among the agrarian, commercial, financial, and industrial sectors; international trade and capital flows; the role of the state; the role of economic theory and ideology; theories of post-1850 imperialism.

Exclusion: ECO203Y

Prerequisite: ECO200Y/204Y/206Y

**ECO307HI Issues in Canadian and US Economic History to 1914 26L**

This course addresses the evolution of North American markets, with emphasis on the pre-Civil War period. Labor markets are examined, including those for indentured servants and apprentices, as well as the economics of slavery. The timing and impact of technological change and the evolution of manufacturing production are also covered. The U.S. economy and the role of Canadian economic activity within the broader North American context will be examined (formerly offered as Special Topics course ECO354H).

Prerequisite: ECO200Y/204Y/206Y

Exclusion: ECO221Y, 321Y, 354H (North American Economic History to 1850), 423H

**ECO308HI The Economics of Life: A Historical Perspective 26L**

This course will focus on demographic economic history within a North American context. Topics covered include changes over time in marriage markets, fertility, mortality and stature. We study, for example, the impact of property rights within marriage, illegitimacy, the decline of fertility in the nineteenth century and the puzzling inter-temporal divergence between height and wealth during the early nineteenth century (formerly offered as Special Topics course ECO355H)

Prerequisite: ECO200Y/204Y/206Y; ECO220Y/227Y or equivalent

Exclusion: ECO355H (The Economics of Life: A Historical Perspective)

**ECO309HI Economic Growth and Development in Southeast Asia 26L**

This course evaluates economic development strategies in Southeast Asia and their implications for growth, industrialization, and income inequality. It first reviews trade and development theory that can explain the economic

development of Southeast Asia. Then, it explains the initial conditions provided by resource endowments, geographical location, trade-international economic relations, and domestic economic development policies, and how these conditions have affected the process of development. The course focuses on the five most populous and resource abundant countries of the region: Indonesia, Malaysia, Philippines, Thailand and Vietnam (formerly offered as Special Topics course ECO355H)

Prerequisite: ECO200Y/204Y/206Y, ECO202Y/208Y/209Y

Exclusion: ECO355H (Economic Growth and Development in Southeast Asia)

**ECO310YI Industrial Organization and Public Policy 52L, 26T**

Study of how firms compete and structure of markets.

Emphasize oligopoly markets and use game theory. Study differentiated goods, price discrimination, barriers to entry, vertical relationships, advertising, strategic behaviour, and empirical industrial organization including estimation of demand and costs. Applications to competition policy emphasizing evaluation of horizontal mergers.

Exclusion: ECO380H

Prerequisite: ECO200Y/204Y/206Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)

**ECO313HI Environmental Economics and Policies 26L**

This course demonstrates the way that 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: ECO200Y/204Y/206Y, MAT133Y/135Y/137Y

**ECO314HI Energy and Resource Economics 26L**

An investigation of the way that a rigorous application of microeconomic techniques can 1) improve our understanding of how resources like oil, minerals, fish, and forests are extracted in equilibrium, and 2) lead to improved management policies.

Prerequisite: ECO200Y/204Y/206Y, MAT133Y/135Y/137Y

**ECO320HI Economic Analysis of Law 26L**

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: ECO200Y/204Y/206Y, MAT133Y/135Y/137Y

**ECO321YI Canadian Economic History since 1500 (formerly ECO221YI) 52L**

Canadian economic growth and development as viewed through the staples thesis of Harold Innis. Reference to United States economic history throughout the course.

Exclusion: ECO 221Y1, 323Y5

Prerequisite: ECO200Y/204Y/206Y

**ECO324YI Economic Development 52L**

Economic development theory and policy related to the economic transformation of the developing countries, including industrial and agricultural sector strategies, international trade policy, public sector activities and the importance of productivity growth and poverty reduction programs.

Prerequisite: ECO200Y/204Y/206Y, 202Y/208Y/209Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)

# Economics

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<b>ECO325HI</b>	<b>Advanced Economic Theory - Macro</b>	<b>26L, 13T</b>	<b>ECO336YI</b>	<b>Public Economics</b>	<b>52L</b>
<p>This course develops the microeconomic foundations of macroeconomic theory and 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.</p> <p>Prerequisite: ECO208Y/202Y(70%)/209Y(70%), ECO220Y(70%)/227Y/STA(250H[70%], 255H[70%])/(257H, 261H)</p> <p>Recommended preparation: MAT223H/240H, MAT235Y/237Y/ECO210H</p>			<p>Theory of public goods, externalities, and the politics of government policy. Analysis of equity, incidence and incentive effects of taxes. An analytical treatment of the public sector.</p> <p>Exclusion: ECO236Y</p> <p>Prerequisite: ECO200Y/204Y/206Y; MAT133Y/135Y/137Y</p>		
<b>ECO326HI</b>	<b>Advanced Economic Theory - Micro</b>	<b>26L, 13T</b>	<b>ECO339YI</b>	<b>Economics of Labour</b>	<b>52L, 26T</b>
<p>Game theory and applications. Topics include: strategic and extensive games, with applications to economics.</p> <p>Exclusion: ECO372H5, 372Y5</p> <p>Prerequisite: ECO200Y(70%)/204Y(70%)/206Y, ECO220Y(70%)/227Y/STA(250H[70%], 255H[70%])/(257H, 261H); MAT133Y(63%)/135Y(60%)/137Y(55%)</p> <p>Recommended preparation: MAT223H/240H, MAT235Y/237Y/ECO210H</p>			<p>The operation of labour markets; determinants of supply and demand for labour; wage differentials; discrimination; investment in schooling and training; unemployment; economics of unions.</p> <p>Exclusion: ECO239Y, 361Y5</p> <p>Prerequisite: ECO200Y/204Y/206Y; ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)</p>		
<b>ECO327YI</b>	<b>Applied Econometrics</b>	<b>52L, 26T</b>	<b>ECO340HI</b>	<b>Economics of Income Distribution</b>	<b>26L</b>
<p>The development and application of statistical techniques in estimating economic models and testing economic theory. The implications and treatment of special statistical problems that arise in estimating economic relationships.</p> <p>Exclusion: STA302H</p> <p>Prerequisite: ECO200Y(70%)/204Y(70%)/206Y, ECO220Y(70%)/227Y/STA(250H[70%], 255H[70%])/(257H, 261H)</p> <p>Recommended preparation: MAT223H/240H, MAT235Y/237Y/ECO210H</p>			<p>The personal distribution of income and wealth; measurement of inequality and poverty. The distributional effects of the tax system, government spending and economic regulation (including policies such as minimum wages, pay equity and employment equity).</p> <p>Prerequisite: ECO200Y/204Y/206Y; ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)</p>		
<b>ECO328YI</b>	<b>International Economics</b>	<b>52L, 26T</b>	<b>ECO342YI</b>	<b>Twentieth Century Economic History</b>	<b>52L</b>
<p>The operation of the international economy and the economic interdependence among nations, in terms of international monetary relationships, commodity trade and factor movements.</p> <p>Prerequisite: ECO200Y(70%)/204Y(70%)/206Y, 202Y/208Y/209Y</p> <p>Exclusion: ECO230Y, ECO364H5, 365H5</p>			<p>Economic development of Europe and certain overseas areas, particularly Japan and the United States. Special attention to globalization before 1914, problems of the interwar years, the Great Depression of the 1930's, the period since 1945, international trade, the balance of payments and exchange rate mechanisms, growth performance of the major industrial countries.</p> <p>Prerequisite: ECO200Y/204Y/206Y/(ECO230Y, POL208Y)</p>		
<b>ECO329HI</b>	<b>Topics in Monetary Economics</b>	<b>26L</b>	<b>ECO350YI/351HI/352HI</b>	<b>Special Topics in Economics</b>	<b>52S/26S</b>
<p>Theories and techniques in monetary economics, including the equilibrium asset-pricing theory and modeling money as a medium of exchange, the Lucas supply curve, the choice of monetary policy rules versus discretion, and the liquidity effect of open market operations. Emphasis on the interactions between macroeconomic phenomena and individual decisions.</p> <p>Exclusion: ECO349H5, ECO352H (2002-03)</p> <p>Prerequisite: ECO200Y/204Y/206Y, ECO202Y/208Y/209Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H), MAT133Y/135Y/137Y</p>			<p>Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department (see the Undergraduate Secretary for details).</p> <p>Prerequisite: TBA</p>		
<b>ECO332HI</b>	<b>Economics of the Family</b>	<b>26L</b>	<b>ECO353YI/354HI/355HI</b>	<b>Special Topics in Economic History</b>	<b>52S/26S</b>
<p>This course uses microeconomics to study the behaviour of the family, including marriage, divorce, intra-family allocations, investment in children and gender roles.</p> <p>Prerequisite: ECO200Y/204Y/206Y; MAT133Y/135Y/137Y</p>			<p>Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department (see the Undergraduate Secretary for details).</p> <p>Prerequisite: TBA</p>		
<b>ECO333YI</b>	<b>Urban Economics</b>	<b>52L</b>	<b>ECO358HI</b>	<b>Financial Economics I</b>	<b>26L</b>
<p>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.</p> <p>Prerequisite: ECO200Y/204Y/206Y; MAT133Y/135Y/137Y</p>			<p>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.</p> <p>Prerequisite: ECO200Y/204Y/206Y, ECO220Y/227Y/STA(250H, 255H)/(257H/261H)</p> <p>Exclusion: ACT349HI, 370HI, MGT331YI, 337YI</p>		
			<b>ECO359HI</b>	<b>Financial Economics II: Corporate Finance</b>	<b>26L</b>
			<p>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</p>		

legal system in the functioning of financial markets. A look at theoretical and empirical literature covering these issues.

Prerequisite: ECO358H

Exclusion: ACT349HI, 370HI, MGT331YI, 337YI

**ECO360YI Economic Growth and Technological Change 52L**

With emphasis on the United States, Japan and Canada, this course examines theories of capitalism; Long Wave Cycle, the importance of productivity growth and Solow's residual, the economics of technological change, the Japanese/U.S. trade interface, the economic slowdown since 1973 and the current Canadian productivity challenge.

Prerequisite: ECO200Y/204Y/206Y, 202Y/208Y/209Y, ECO220Y/227Y/ STA(250H, 255H/257H)

Exclusion: ECO362H5

**ECO369YI Health Economics 52L**

The provision of health care provides many special problems of informational asymmetry, regulation, insurance and redistribution. The course considers the demand and supply side problems. Alternative reform proposals for health care are explored.

Prerequisite: ECO200Y/204Y/206Y, MAT133Y/135Y/137Y

**ECO370YI Economics of Organizations 52L**

An introduction to the economic analysis of organizations and, in particular, the firm. An investigation of how markets can solve the twin problems of coordinating activities and motivating individuals; and, when markets are less successful, how organizations and special contractual relationships emerge as alternative institutions for allocating resources.

Exclusion: ECO381H, ECO426H

Prerequisite: ECO200Y/204Y/206Y; ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)

**ECO380HI Managerial Economics I: Competitive Strategy 26L**

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. This includes competitive relationships among firms in the same market and cooperative relationships between a firm and its suppliers and distributors.

Exclusion: ECO200Y/204Y/206Y; ECO310Y, MGT310Y

Prerequisite: ECO220Y/227Y/STA(250H,255H)/ (257H,261H)

**ECO381HI Managerial Economics II: Personnel Economics 26L**

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.

Exclusion: ECO370Y,426H, MGT310Y

Prerequisite: ECO200Y/204Y/206Y; ECO220Y/227Y/ STA(250H,255H)/ (257H,261H)

**ECO382HI Population Economics and Business Strategy 26L**

Strategic business in any organization depends crucially on people – the customers using the products and the employees executing the strategy. Using population economics as a foundation, topics covered include strategic management, consumer behaviour, life cycle models, generational analysis, trend analysis, marketing, risk analysis, global competitive analysis, diversification strategy, human resource planning, government relations, change management and sustainability.

Prerequisite: ECO200Y(70%)/204Y(70%)/206Y(60%), ECO202Y(70%)/208Y(60%)/209Y(70%), ECO220Y(70%)/227Y(60%)/ STA(250H[70%], 255H[70%])/STA(257H[60%], 261H[60%])

**ECO398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**Note:**

Many 400-level courses are offered as joint undergraduate and graduate courses. Students interested in any of these courses should consult with the instructor before enrolling.

**ECO416HI Macroeconometric Models for Policy Analysis and Forecasting 26L, 13T**

The construction and operation of macroeconometric models. The use of models for conducting policy simulations and for generating quantitative forecasts of economic activity.

Prerequisite: ECO325H

Co-requisite: ECO327Y

**ECO418HI Empirical Applications of Economic Theory 26L**

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 equilibria arise and how economic policies are used to affect market equilibria.

Prerequisite: ECO327Y

**ECO419HI International Macroeconomics 26L**

Contemporary issues in international monetary economics and macroeconomic policy formulation in open economies like Canada. A study of forces determining interest rates and exchange rates, inflation and unemployment; analysis of government policy in relation to financial markets.

Prerequisite: ECO200Y/204Y/206Y, 202Y/208Y/209Y, ECO220Y/227Y/ STA(250H, 255H)/(257H, 261H), permission of instructor

**ECO420YI/ Special Topics in Economics 52S/26S 421HI/ 422HI**

Seminars or workshops may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department. (See the Undergraduate Secretary for details.) Prerequisite: TBA, permission of instructor

**ECO423HI Topics in North American Economic History 26L**

Themes are incentives, contracts, and the impetus for change. Topics include indigenous people of North America; indentured servitude; slavery; apprenticeships; the evolution of production from artisan shop to the factory; invention and the diffusion of technological innovations; institutions and growth.

Prerequisite: ECO206Y(70%), 227Y(70%)/

(STA257H[70%],261H[70%]), or permission of the instructor.

Exclusion: ECO307HI

**ECO425HI Economics and Demographics 26S**

A research-oriented course exploring the interrelationships between economics and demographic change, both historical and projected, with attention to the microeconomic

# Economics

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foundations, macroeconomic performance, and policy in areas such as fertility, migration, education, labour markets, housing, crime, recreation, leisure, marketing, health, retirement and pensions. The Canadian experience, with some international comparisons.

Prerequisite: ECO200Y(70%)/ECO204Y(70%)/206Y(60%), 202Y(70%)/208Y(60%)/209Y(70%), 220Y(70%)/227Y(60%)/STA(250H[70%], 255H[70%])/STA(257H[60%], 261H[60%])

Co-requisite: ECO327Y/STA302H

## **ECO426HI Economics inside Organizations 26L**

An examination of selected research on compensation, incentive issues, cooperation and allocation of authority in hierarchical organizations.

Exclusion: ECO370YI, ECO381HI

Prerequisite: ECO200Y(70%)/206Y(60%), 220Y(70%)/227Y(60%)/STA(250H[70%], 255H[70%])/STA(257H[60%], 261H[60%])

## **ECO429YI History of Economic Thought 52L (formerly ECO322YI)**

Development of analytical economics from the 18th century with emphasis on Adam Smith and the British Classical School (David Ricardo, T.R. Malthus, and J.S. Mill), Karl Marx, the Marginalists and their successors to 1939, including Keynes.

Exclusion: ECO322YI, 322Y5

Prerequisite: ECO200Y/204Y/206Y; ECO202Y/208Y/209Y

## **ECO430YI/ Reading Course or Thesis TBA 431HI**

Intended for advanced Specialist students who have exhausted course offerings in a particular area. Open only when a faculty member is available and willing to supervise. Students must obtain the approval of the Associate Chair for Undergraduate Studies before enrolling.

## **ECO435HI The Economics of Modern China 26L (formerly ECO335YI)**

A focus on post-1949 Chinese economy, and the PRC's 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 a limited enrolment seminar requiring extensive reading.

Exclusion: ECO335Y

Prerequisite: ECO200Y(70%)/ECO204Y(70%)/ECO206Y(60%)

## **ECO451HI Macroeconomic Growth 26L**

An introduction to modern theories of the determinants of macroeconomic growth that examines the important question of why some countries are rich and others are poor. Topics include: investigation of empirical literature pertaining to international comparisons of recent and past rates of economic growth across countries.

Prerequisite: ECO325H, ECO327Y

## **ECO459HI International Trade Regulation 26L**

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: ECO328Y, permission of instructor

## **ECO461HI The Economics of Financial Risk Management 26L**

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.

Exclusion: ACT349HI, 370HI, MGT331YI, 337YI, 438HI

Prerequisite: ECO358H(70%)/ECO460H5(70%)

## **ECO462HI Financial Econometrics 26L**

This course provides an introduction to the econometrics used in empirical finance. Topics will include parametric and nonparametric models of volatility, evaluation of asset pricing theories and models for risk management and transactions data. The course will emphasize estimation and inference using computer based applications.

Prerequisite: ECO327YI(70%), ECO358H(70%)

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**Employment Relations: see  
Woodsworth College**

## Faculty

### University Professors Emeriti

R. Frank, MA, Ph D, FRSC (U)  
 J.R. de J. Jackson, MA, Ph D, FRSC (V)  
 M. Millgate, MA, Ph D, FRSC

### Professors Emeriti

T.H. Adamowski, MA, Ph D  
 P.R. Allen, MA, Ph D (I)  
 F.J. Asals, MA, Ph D (N)  
 G.E. Bentley, B Litt, D Phil, FRSC (U)  
 C.R. Blake, MA, Ph D (U)  
 W.F. Blissett, MA, Ph D, FRSC (U)  
 P.L. Brückmann, MA, Ph D (T)  
 E. Cameron, MA, Ph D (U)  
 D.D.C. Chambers, MA, Ph D (T)  
 E. Cook, MA, Ph D, FRSC (V)  
 E.W. Domville, Ph D (T)  
 D.J. Dooley, MA, Ph D (SM)  
 J.D. Duffy, MA, Ph D (I) (V)  
 J. Dutka, MA, Ph D (University of Toronto Mississauga)  
 F.T. Flahiff, MA, Ph D (SM)  
 M. Garson, MA, Ph D (University of Toronto Mississauga)  
 H.A. Gleason, BS, Ph D (obiit)  
 R.I.C. Graziani, MA, Ph D (U)  
 P.M. Grosskurth, MA, Ph D (N)  
 W.H. Halewood, MA, Ph D (U)  
 G.A. Hamel, MA, Ph D (N)  
 B.S. Hayne, AM, Ph D (SM)  
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 M.C. Kirkham, M Phil (U)  
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 A.M. Leggatt, MA, Ph D, FRSC (U)  
 J.F. Leyerle, Ph D (U) (obiit)  
 N.R. Lindheim, MA, Ph D  
 J.F. Lynen, MA, Ph D (U)  
 H.R. MacCallum, MA, Ph D (U)  
 J.J. Macpherson, MA, BLS, Ph D (V)  
 F.J. Marker, MA, DFA (U)  
 G. Matteo, MA, Ph D, (SM)  
 J. Millgate, MA, Ph D, FRSC (V)  
 L. Munk, MA, Ph D (University of Toronto Mississauga)  
 D. Neill, MA, B Litt  
 S. Neuman, Ph D, FRSC  
 R.B. Parker, MA, Ph D (T)  
 A.D. Pritchard, Ph D (U)  
 A.G. Rigg, MA, D Phil (T)  
 S.P. Rosenbaum, MA, Ph D, FRSC  
 A. Saddlemyer, MA, Ph D, D Litt, LL D, FRSC (V)  
 R.M.K. Schieder, MA, Ph D (T)  
 P.D. Seary, MA, D Phil (N)

W.D. Shaw, AM, Ph D, FRSC (V)  
 M.J. Sidnell, MA, Ph D (T)  
 J. Skvorecky, Ph D, FRSC (University of Toronto Mississauga)  
 Sister G. Thompson, MA, Ph D (SM)  
 R.W. Van Fossen, AM, Ph D (University of Toronto Mississauga)  
 C. Visser, BLitt, Ph D (U)  
 G.T. Warkentin, MA, Ph D (V)  
 F.W. Watt, MA, B Litt, Ph D (U)  
 M. Wilson, MA, Ph D, FRSC (T)

### Professor and Chair of the Department

B. Corman, AM, Ph D (T)

### Associate Professor and Associate Chair

J.M. Reibetanz, MA, Ph D (T)

### University Professors

J.E. Chamberlin, Ph D, FRSC (N)  
 L.A. Hutcheon, MA, Ph D, FRSC (N)

### Professors

J.H. Astington, MA, Ph D  
 J.D. Baird, MA, Ph D (V)  
 A.J. Bewell, MA, Ph D, FRSC (U)  
 R.M. Brown, MA, Ph D (University of Toronto Scarborough)  
 M. Cuddy-Keane, MA, Ph D (University of Toronto Scarborough)  
 A.H. de Quehen, Ph D (U)  
 D.L. Esch, MA, Ph D (V)  
 E.D. Harvey, MA, Ph D (U)  
 E.R. Harvey, M Phil, Ph D  
 A. diP. Healey, MA, Ph D (U)  
 H.J. Jackson, MA, Ph D  
 A. Jaffe, Ph D  
 C. Kanaganayakam, Ph D (T)  
 T. Keymer, MA, Ph D  
 D.N. Klausner, Ph D (U)  
 A.C. Lancashire, AM, Ph D (U)  
 D.I. Lancashire, MA, Ph D (N)  
 G. M. Leonard, MA, Ph D (University of Toronto Scarborough)  
 J.L. Levenson, MA, Ph D, FRSC (T)  
 S.B. MacLean, MA, PhD  
 L. Magnusson, MA, Ph D  
 J.L. Matus, MA, Ph D (U)  
 H. Murray, MA, Ph D (V)  
 A.P.M. Orchard, MA, Ph D (T)  
 A. Quayson, Ph D  
 M. Redekop, MA, Ph D (V)  
 J.H. Reibetanz, AM, Ph D (V)  
 S.Z. Solecki, MA, Ph D (U)  
 P.A. Stevens, MA, Ph D  
 R. Sullivan, MA, Ph D, FRSC  
 L. Thomson, MA, Ph D (University of Toronto Mississauga)  
 D. Townsend, MA, Ph D (U)

### Associate Professors

A. Ackerman, MA, Ph D (U)

# English

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S.C. Akbari, MA, Ph D (U)  
C. Bolus-Reichert, MA, Ph D (University of Toronto Scarborough)  
G.E. Clarke, MA, Ph D (U) (V)  
J. DeLombard, MA, Ph D (University of Toronto Mississauga)  
P.B. Downes, MA, Ph D (T)  
U. Esonwanne, Ph D  
G. Fenwick, MA, Ph D (T)  
D.I. Galbraith, MA, Ph D (V)  
M. Goldman, MA, Ph D (University of Toronto Scarborough)  
R. Greene, D Phil (University of Toronto Mississauga)  
G. Henderson, MA, Ph D  
N. ten Kortenaar, MA, Ph D (University of Toronto Scarborough)  
S. Lamb, MA, Ph D (University of Toronto Scarborough)  
M.J. Levene, MA, Ph D (University of Toronto Mississauga)  
H. Li, Ph D  
V. Li, MA, PhD  
D.S. Lynch, PhD  
R.R. McLeod, MA, Ph D (University of Toronto Mississauga)  
N. Morgenstern, MA, Ph D  
M. Nyquist, MA, Ph D (N)  
J.J. O'Connor, MA, Ph D (SM)  
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C.E. Percy, MA, D Phil (N)  
W. Robins, MA, Ph D (V)  
S. Salih, MA, D Phil  
C. Schmitt, MA, Ph D  
D. Seidler, MA, Ph D  
K. Weisman, MA, Ph D  
D.E. White, MA, Ph D (University of Toronto Mississauga)  
M. Woodland, MA, Ph

## Assistant Professors

M. Cobb, MA, Ph D  
C. Columpar, Ph D (I)  
S.E. Dickie, MA, Ph D  
N. Dolan, MA, Ph D (University of Toronto Scarborough)  
A. DuBois, Ph D (University of Toronto Scarborough)  
A. Gillespie, MA, D Phil (University of Toronto Mississauga)  
C. Hill, MA, Ph D (University of Toronto Mississauga)  
D.H. Justice, MA, Ph D  
J. Lopez, MA, Ph D  
A. Maurice, MA, Ph D (University of Toronto Scarborough)  
A. Most, MA, Ph D  
N. Mount, MA, Ph D  
M. Ruti, MA, Ph D (University of Toronto Mississauga)  
N. Sammond, MA, Ph D (I)  
H.S. Syme, AM, Ph D (University of Toronto Mississauga)  
C. Warley, MA, Ph D  
S. Wilson, MA, Ph D  
M. Xie, Ph D  
T.P. Yu, Ph D

## Senior Lecturer

J. Levine, MA, Ph D (V)

Literature in English has a long history and is now written around the world. The Department of English offers a wide range of courses which engage many aspects of this vast subject: courses in theory, language, and method, in Canadian and indigenous north American literature, in American and transnational literatures, in British literature from its beginnings to the 19th century, and in literature from the 18th century to the present. Some courses deal with historical periods, some examine particular genres or individual authors, some have a national or transnational focus, and some deal more exclusively with theory and critical methods. The Department's objective in every course is to deepen the student's awareness and appreciation of the complex and constantly evolving literary traditions of English around the world. More broadly, studying English develops skills of critical thinking, analysis, and expression that are required in all areas of research, business, and professional activity.

Courses are arranged in four series: this gradation indicates the level of work expected at each stage. In the 100 series, the emphasis falls on introducing students to the study of English at the university level through broad courses in a variety of literary forms. In the 200 series, courses are also introductory, but they focus on more specific areas. In the 300 series, courses are taught at a more advanced level. In the 400 series, the Department offers its most advanced studies in seminar format.

The Department of English offers several Programs of Study: these programs provide students with different frameworks in which to explore the field, while balancing the demands of breadth and depth. The Specialist Program constitutes the most intensive form of study, requiring a minimum of 10 English courses in a 20-course degree. Students should note that the Specialist Program is not designed to meet the requirements for admission to any graduate program: those students who are interested in proceeding to graduate school should seek advice on course selection from their professors and from the undergraduate and graduate counsellors. Similarly, students considering a teaching career in Ontario should consult the admission counsellors at the Ontario Institute for Studies in Education/UT. The Major Program in English requires a minimum of 7 English courses in a 20-course degree and is often combined with other Major Programs in different subject areas. Finally, the Minor Program requires a minimum of 4 English courses in a 20-course degree. The Department also offers joint Specialist Programs in Drama and English, English and Linguistics, and English and Philosophy. Students with questions about the requirements of the various programs in English should consult the Office of the Associate Chair.

The Department of English publishes an Undergraduate Brochure each year: it is usually available by mid-April, in hard copy and on line. The Brochure provides detailed course descriptions and reading lists for the particular courses being taught the following year. The general policy of the Department is to regulate class size in order to achieve the best conditions possible for teaching and learning. Enrolment in many sections is therefore limited. Students are urged to consult the Undergraduate Brochure at [www.utoronto.ca/english](http://www.utoronto.ca/english) before enrolment begins.

Associate Chair: Professor J.M. Reibetanz, Room 2107, 7 King's College Circle (416-978-5026)

Undergraduate Counselling: Ms. V. Holmes, Room 2109, 7 King's College Circle (416-978-5026)

General Enquiries: Room 2101, 7 King's College Circle (416-978-3190)

## English Programs

### English (Arts program)

Enrolment in any English Program of Study requires completion of four previous courses or their equivalent. Students are responsible for completing all the requirements of the English Program in which they are enrolled. No minimum GPA is required. For programs in English prior to 2007, please refer to the appropriate Arts & Science Calendar.

#### Specialist program:

Ten ENG/JEF full courses or their equivalent, including at least three 300-series full-course equivalents and one 400-series full-course equivalent. Only one 100-series ENG/JEF course may be counted toward program requirements. ENG100HI, ENG185Y1, HUM199Y1, MEJ204HI, JUM204HI may not be counted.

Courses must fulfill the following requirements:

1. At least 1 full-course equivalent from Group 1 (Theory, Language, Methods)
2. At least 1 full-course equivalent from Group 2 (Canadian and Indigenous North American Literatures)
3. At least 1 full-course equivalent from Group 3 (American and Transnational Literatures)
4. At least 3 full-course equivalents from Group 4 (British Literature to the 19th Century)
5. At least 1.5 full-course equivalents from Group 5 (Literature since the 18th Century)

#### Major program:

Seven ENG/JEF full courses or their equivalent, including at least two 300-series full-course equivalents. Only one 100-series ENG/JEF course may be counted toward program requirements. ENG100HI, ENG185Y1, HUM199Y1, MEJ204HI, JUM204HI may not be counted.

Courses must fulfill the following requirements:

1. At least .5 full-course equivalent from Group 1 (Theory, Language, Methods)
2. At least 1 full-course equivalent from Group 2 (Canadian and Indigenous North American Literatures)
3. At least 1 full-course equivalent from Group 3 (American and Transnational Literatures)
4. At least 2 full-course equivalents from Group 4 (British Literature to the 19th Century)
5. At least 1 full-course equivalent from Group 5 (Literature since the 18th Century)

#### Minor program:

Four ENG/JEF full courses or their equivalent, including at least one 300-series full-course equivalent. Only one 100-series ENG/JEF course may be counted toward program requirements. ENG100HI, ENG185Y1, HUM199Y1, MEJ204HI, JUM204HI may not be counted.

#### Group 1: Theory, Language, Methods

ENG 201Y1, 205HI, 280HI (or ENG267HI), 285HI, 290Y1, 380HI (or ENG467Y1), 382Y1 (or ENG366Y1), 383HI (or ENG468HI), 385HI (or ENG367Y1), 414HI, 415HI, 416HI, 417Y1, 418Y1, 419Y1

#### Group 2: Canadian and Indigenous North American Literatures

ENG 215HI, 252Y1, 254Y1, 277Y1, 350HI, 352HI (or ENG223HI), 353Y1 (or ENG216Y1), 354Y1, 355HI, 357HI, 424HI, 425HI, 426HI, 427Y1, 428Y1, 429Y1

#### Group 3: American and Transnational Literatures

ENG 250Y1, 268HI (or ENG279Y1), 270Y1 (or ENG253Y1), 273Y1, 275Y1 (or ENG256Y1), 278Y1, 360HI, 363Y1 (or ENG358Y1), 364Y1 (or ENG359Y1), 365HI (or ENG361HI), 368HI (or ENG279Y1), 370HI, 434HI, 435HI, 436HI, 437Y1, 438Y1, 439Y1

#### Group 4: British Literature to the 19th Century

ENG 202Y1, 220Y1, 240Y1, 300Y1, 301HI, 302Y1, 303HI OR 304Y1, 305HI OR 306Y1, 307HI, 308Y1, 311HI, 322Y1, 323HI, 330HI, 331HI (or ENG332Y1 or ENG333HI), 335HI (or ENG332Y1 or ENG333HI), 336HI, 337HI (or ENG334HI), 402HI, 460HI, 461HI, 462HI, 463HI, 464Y1, 465Y1, 466Y1, 469Y1

#### Group 5: Literature since the 18th Century

ENG 210Y1, 213HI, 214HI, 232HI, 233Y1, 234HI, 235HI, 236HI, 237HI, 239HI, 324Y1 OR 325HI, 328Y1, 329HI, 340HI (or ENG338Y1), 341HI (or ENG338Y1), 342HI (or ENG339HI), 347Y1 (or ENG312Y1), 348Y1, 349HI, 470HI, 471HI, 472HI, 473HI, 474Y1, 475Y1, 476Y1, 479Y1

### English and Drama - See Drama

### English and Linguistics (Arts program)

Consult the Undergraduate Coordinator, Department of English.

#### Specialist Program:

Fourteen full courses or their equivalent, including three 300-series full-course equivalents and one 400-series full-course equivalent.

#### English (7 courses):

Only one 100-series ENG/JEF course may be counted toward program requirements. ENG100HI, ENG185Y1, HUM199Y1, MEJ204HI, JUM204HI may not be counted.

Seven ENG/JEF full courses or their equivalent, fulfilling the following requirements:

1. ENG285HI & ENG385HI
2. At least 1 full-course equivalent from Group 2 (Canadian and Indigenous North American Literatures)
3. At least 0.5 full-course equivalent from Group 3 (American and Transnational Literatures)
4. At least 2 full-course equivalents from Group 4 (British Literature to the 19th Century), ENG240Y1 and ENG300Y1 specially recommended
5. At least 0.5 full-course equivalent from Group 5 (Literature Since the 18th Century)

#### Linguistics (7 courses):

First Year:

LIN 100Y1

Second Year:

LIN 228HI, 229HI, 231HI, 232HI

Third and Fourth Years:

# English

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Four FCEs in LIN/JAL/JFL/JLP/JLS (excluding LIN 200HI), at least one of which must be at the 400-level, and two at the 300+ level (LIN 362HI specifically recommended)

## English and Philosophy (Arts program)

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Consult the Undergraduate Coordinator, Department of English.

### Specialist program:

Fourteen full courses or their equivalent, including at least three 300-series full-course equivalents and one 400-series full-course equivalent.

### English:

Only one 100-series ENG/JEF course may be counted toward program requirements. ENG100HI, ENG185YI, HUM199YI, MEJ204HI, JUM204HI may not be counted.

1. Six to eight full courses or their equivalent.
2. Same Group Requirements as the English Major Program.

### Philosophy (6 to 8 courses):

Either 1. or 2.:

1. Six or seven Philosophy courses including at least three at the 300+level; or
2. Six or seven Philosophy courses selected as follows:  
First and Second Years:  
One course in History of Philosophy; one half course in each of Aesthetics and Logic, one additional course or two half courses  
Third Year:  
Two 300+series courses  
Fourth Year:  
One other PHL 300+series course

NOTE: The fourteenth course must be a 400-series course (a full or two half-courses) in English and/or Philosophy.

## English Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all ENG courses are classified as HUMANITIES courses.

Please note: Not all courses are offered every year.

### 100-Series Courses

#### Note

100-series courses are designed to introduce students to the study of English at the university level. They aim to foster interpretive skills and to promote effective writing. ENG100HI examines basic writing skills relevant to a wide range of university subject areas. ENG110YI focuses on elements of narrative writing in a variety of fictional and non-fictional forms. ENG125YI explores the theatrical aspects of various literary forms. ENG140YI ranges over modern and contemporary literature, considering drama, fiction, and poetry from various regions of the world. JEF100YI explores some of the major works of the Western literary tradition from Homer to the twentieth century. Students should note that only ONE of ENG 110YI, 125YI, 140YI, and JEF100YI may be counted towards English program requirements. ENG100HI, ENG185YI, HUM199YI may not be used to meet the requirements of any English program. First-year students may enrol in a 200-series ENG course, if they are concurrently enrolled in one of ENG 110YI, 125YI, 140YI or JEF100YI.

### ENG100HI Effective Writing 39L

A course designed to improve competence in writing expository and persuasive prose for academic and other purposes. It aims to teach the principles of clear, well-reasoned prose, and their practical applications; the processes of composition (drafting, revising, final editing); the conventions of various prose forms and different university disciplines. The course does not meet the needs of students primarily seeking to develop English language proficiency. This course may not count toward any English program.

### ENG110YI Narrative 78L

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 judgements, travel writing, histories, songs, diaries, biographies.

### ENG125YI The Performance of Literature 78L

Considering major dramatic genres such as comedy and tragedy, this course explores how performance affects our engagement with literature by focusing on the theatrical aspects of various literary forms—plays, novels, poems, sermons, essays—as well as adaptations of these texts into other forms and media—television, film, musical recordings.

### ENG140YI Literature for our Time 78L

An exploration of how the literature of the twentieth and twenty-first centuries responds to our world through major forms of poetry, prose, and drama in texts drawn from a variety of national literatures. At least nine authors, such as Eliot, Frost, Heaney, Page, Plath, Rich, Wayman, Walcott, Yeats, Faulkner, Gordimer, Joyce, Morrison, Munro, Naipaul, Rushdie, Woolf, Beckett, Highway, O'Neill, Shaw, Soyinka, Stoppard.

### ENG185YI The Study of Literature 52L

See Academic Bridging Program.  
Only for students registered in the Academic Bridging Program. This course may not count toward any English program.

### HUM199HI/YI First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first-year students. It may serve as a distribution requirement course; see page 47. This course may not count toward any English program.

### JEF100YI The Western Tradition 78L

An introduction to literature through major works of the Western literary tradition. What constitutes a literary “classic”? How have the great concerns of the Western tradition - human nature, its place in society, its mythmaking, its destiny - been represented in literature? These and other questions are examined by reference to 11-12 works, from ancient times to the twentieth century, by such authors as Homer, Sophocles, Ovid, Virgil, Dante, Shakespeare, Cervantes, Molière, Austen, Dostoevski, Kafka, Camus, Beckett and Márquez. (A joint course offered by the Departments of English and French; see also JEF 100YI in the French program listings.)

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### 200-Series Courses

#### Note

200-series courses are open to students who have obtained standing in one full 100-series ENG or JEF course or in at least four full-course equivalents in the Faculty of Arts and Science.



Students without these prerequisites may enrol in a 200-series course if they are concurrently enrolled in one of ENGI10Y1, I25Y1, I40Y1, or JEF100Y1. Not all 200-series courses are offered every year: please consult the Department's Brochure for further information. MEJ204HI and JUM204HI may not be used to meet the requirements of any English program.

**Please note that exclusions will be strictly enforced.**

**ENG201Y1 Reading Poetry 78L**  
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.

**ENG202Y1 British Literature: Medieval to Romantic 78L**  
An introduction to influential texts that have shaped the British literary heritage, covering approximately twelve writers of poetry, drama, and prose, from Chaucer to Keats, with attention to such questions as the development of the theatre, the growth of the novel form, and the emergence of women writers.

**ENG205HI Rhetoric 39L**  
An introduction to the rhetorical tradition from classical times to the present with a focus on prose as strategic persuasion. Besides rhetorical terminology, topics may include the discovery and arrangement of arguments, validity in argumentation, elements of style, and rhetorical criticism and theory.

**ENG210Y1 The Novel 78L**  
An introduction to the novel through a reading of ten to twelve texts, representing a range of periods, techniques, regions, and themes.

**ENG213HI The Short Story 39L**  
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.

**ENG214HI The Short-Story Collection 39L**  
This course explores collections of short stories. It examines individual stories, the relationships among and between stories, the dynamics of the collection as a whole, the literary history of this genre, along with its narrative techniques and thematic concerns.

**ENG215HI The Canadian Short Story 39L**  
An introduction to the Canadian short story, this course emphasizes its rich variety of settings, subjects, and styles.

**ENG220Y1 Shakespeare 78L**  
About twelve plays by Shakespeare representing the different periods of his career and the different genres he worked in (comedy, history, tragedy). Such plays as *Romeo and Juliet*; *A Midsummer Night's Dream*; *Richard II*; *Henry IV, Parts I and II*; *As You Like It*; *Twelfth Night*; *Measure for Measure*; *Hamlet*; *King Lear*; *Antony and Cleopatra*; *The Tempest*. Non-dramatic poetry may be included.

**ENG232HI Biography and Autobiography 39L**  
An introduction to the varieties of life writing. Issues discussed include the differences between biography and autobiography, the nature of sources, the ethics of life writing, and the aims and biases of the biographer.

**ENG233YI Women's Writing 39L**  
A study of eight to twelve women writers, this course may include fiction, drama, poetry and non-fiction. Approaches may engage feminist theories, histories, print culture, and other relevant concerns.

**ENG234HI Children's Literature 39L**  
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, and Fitzhugh.

**ENG235HI The Graphic Novel 39L**  
An introduction to book-length sequential art, this course includes fictional and nonfictional comics by artists such as Will Eisner, Art Spiegelman, Frank Miller, Alan Moore, Chris Ware, Daniel Clowes, Julie Doucet, Marjane Satrapi, Chester Brown, and Seth.

**ENG236HI Detective Fiction 39L**  
At least twelve works by such authors as Poe, Dickens, Collins, Doyle, Chesterton, Christie, Sayers, Van Dine, Hammett, Chandler, Faulkner, P.D. James, Rendell.

**ENG237HI Science Fiction 39L**  
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.

**ENG239HI Fantasy and Horror 39L**  
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.

**ENG240YI Old English Language & Literature 78L**  
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.

**ENG250YI American Literature 78L**  
An introductory survey of major works in American literature, this course explores works in a variety of genres, including poetry, fiction, essays, and slave narratives.

**ENG252YI Canadian Literature 78L**  
An introductory survey of major Canadian works in poetry, prose, and drama from early to recent times.

**ENG254YI Indigenous Literatures of North America 78L**  
An introduction to Indigenous North American writing in English, with significant attention to Aboriginal 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 is on contemporary Indigenous writing.

# English

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## **ENG268HI Asian North American Literature 39L**

Introduction to the literature and culture of Asian Canadians and Asian Americans, including fiction, poetry, drama, film, video, and electronic media. The course also explores how such works respond to representations of Asians in popular culture and to Asian North American history and politics.  
Exclusion: ENG279YI

## **ENG270YI Colonial and Postcolonial Writing 78L (formerly ENG253YI)**

In this course we study literary and non-literary texts from the nineteenth century to the present day. Colonial texts are analysed alongside postcolonial interpretations of the nineteenth-century archive, giving students a grasp of colonial discourse and contemporary postcolonial analyses.  
Exclusion: ENG253YI

## **ENG273YI Queer Writing 78L**

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.

## **ENG275YI Jewish Literature in English 78L (formerly ENG256YI)**

A survey of Jewish literature in English, focusing on questions of language, history, religion, national identity, and genre, this course may include works of prose, poetry, drama, film, or music from various Jewish literary communities.  
Exclusion: ENG256YI

## **ENG277YI Introduction to African Canadian Literature 78L**

A study of 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, and "indigenous Africans" (whose roots are essentially "Canadian"). Pertinent theoretical works, films and recorded music are also considered.

## **ENG278YI Introduction to African Literature in English 78L**

The course also introduces students to literary theory in this field.

## **ENG280HI Critical Approaches to Literature 39L (formerly ENG267HI)**

An introduction to literary theory and its central questions, such as the notion of literature itself, the relation between literature and reality, the nature of literary language, the making of literary canons, and the roles of the author and the reader.  
Exclusion: ENG267HI

## **ENG285HI The English Language in the World 39L**

Many-voiced modern English dominates science, business, diplomacy, and popular cultures worldwide. 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.

## **ENG290YI Literature and Psychoanalysis 78L**

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.

## **ENG299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

## **MEJ204HI Mathematics and Poetry 39L**

An interdisciplinary exploration of creativity and imagination as they arise in the study of mathematics and poetry. The goal of the course is to guide each participant towards the experience of an independent discovery. Students with and without backgrounds in either subject are welcome. No calculus required.

Exclusion: JUM204HI

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## **300-Series Courses**

### **Note**

300-series courses are open to students who have obtained standing in at least four full-course equivalents, including one full-course equivalent ENG or JEF course. Not all 300-series courses are offered every year: please consult the Department's Brochure for further information. Students should note the special prerequisites for ENG389YI, 390YI, 391YI, 392HI, 393HI and 394YI: consult the Brochure before the May 15 deadline for instructions on applying for these courses.

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**Please note that exclusions will be strictly enforced.**

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## **ENG300YI Chaucer 78L**

The foundation of English literature: in their uncensored richness and range, Chaucer's works have delighted wide audiences for over 600 years. Includes *The Canterbury Tales*, with its variety of narrative genres from the humorous and bawdy to the religious and philosophical, and *Troilus and Criseyde*, a profound erotic masterpiece.

## **ENG301HI Spenser 39L**

Selections from *The Faerie Queene* and other works.

## **ENG302YI Poetry and Prose, 1500-1600 78L**

Considering literature during the reign of the Tudors, this course may include poetry of Wyatt, Sidney, Mary Sidney Herbert, Marlowe, Shakespeare, Spenser, and Donne; prose of More, Askew, Sidney, Hakluyt, Hooker, Elizabeth I, Lyly, and Nashe; and supplementary readings from such writers as Erasmus, Castiglione, and Machiavelli.

## **ENG303HI Milton 39L**

Selections from *Paradise Lost* and other works.

Exclusion: ENG304YI

## **ENG304YI Poetry and Prose, 1600-1660 78L**

Considering literature during the reign of the early Stuarts and the Civil War, with special attention to Milton and *Paradise Lost*, this course also includes such poets as Donne, Jonson, Lanyer, Wroth, Herbert, and Marvell, and such prose writers as Bacon, Clifford, Donne, Wroth, Burton, Cary, Browne, Hobbes, Milton, and Cavendish.

Exclusion: ENG303HI

## **ENG305HI Swift, Pope, and their Contemporaries 39L**

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.

Exclusion: ENG306Y1

**ENG306Y1 Poetry and Prose, 1660-1800 78L**

Writers of this period grapple with questions of authority and individualism, tradition and innovation, in politics, religion, knowledge, society, and literature itself. Special attention to Dryden, Pope, Swift, Johnson, and at least six other authors. Exclusion: ENG305H1

**ENG307H1 Women Writers, 1660-1800 39L**

A study of poems, plays, novels, letters, periodical essays, polemical works, and books for children by such writers as Cavendish, Behn, Finch, Centlivre, Leapor, Burney, and Wollstonecraft. Topics may include patronage and publishing; nationality, class, and gender; and generic conventions.

**ENG308Y1 Romantic Poetry and Prose 78L**

Poetry and critical prose of Blake, W. Wordsworth, Coleridge, Byron, P.B. Shelley, Keats; may include selections from other writers such as Crabbe, Scott, Landor, Clare, D. Wordsworth, M. Shelley, De Quincey.

**ENG311H1 Medieval Literature 39L**

This course explores a selection of writings in early English, excluding those by Chaucer.

**ENG322Y1 Fiction before 1832 78L**

This course 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, and Austen.

**ENG323H1 Austen and Her Contemporaries 39L**

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.

**ENG324Y1 Fiction, 1832-1900 78L**

Exploring the social and political dilemmas of a culture in transition, this course studies 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. Exclusion: ENG325H1

**ENG325H1 Victorian Realist Novels 39L**

This course explores forms of realism in Victorian fiction and includes at least six novels by such authors as Dickens, Thackeray, George Eliot, Charlotte Bronte, Gaskell, Collins, Trollope, and Hardy. Exclusion: ENG324Y1

**ENG328Y1 Modern Fiction to 1960 78L**

This course explores ten to twelve works by such writers as James, Conrad, Cather, Forster, Joyce, Woolf, Lawrence, Faulkner, Rhys, Hemingway, Achebe, Ellison, Spark, and Lessing.

**ENG329H1 Contemporary British Fiction 39L**

This course explores six or more works by at least four British contemporary writers of fiction.

**ENG330H1 Early Drama 39L**

This course explores liturgical plays, biblical plays, religious and political morality plays, and Tudor interludes.

**ENG331H1 Drama to 1603 39L**

This course explores English drama to the end of the reign of Queen Elizabeth I, with attention to such playwrights as Lyly, Kyd, Marlowe, and Shakespeare.

Exclusion: ENG332Y1 and ENG333H1

**ENG335H1 Drama 1603 to 1642 39L**

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, and Webster.

Exclusion: ENG332Y1 and ENG333H1

**ENG336H1 Topics in Shakespeare 39L**

A concentrated study of one aspect of Shakespeare's work, such as his use of a particular genre, a particular period of his work, a recurring theme, or the application of a particular critical approach.

**ENG337H1 Drama, 1660-1800 (formerly ENG334H1) 39L**

At least twelve plays, including works by Dryden, Wycherley, Congreve, and their successors, chosen to demonstrate the modes of drama practised during the period, the relationship between these modes and that between the plays and the theatres for which they were designed.

Exclusion: ENG334H1

**ENG340H1 Modern Drama to World War II 39L**

A study of plays in English by such dramatists as Wilde, Yeats, Shaw, Synge, Glaspell, Hughes, and O'Neill, as well as plays in translation by such dramatists as Ibsen, Chekhov, Strindberg, and Pirandello.

Exclusion: ENG338Y1

**ENG341H1 Modern Drama since World War II 39L**

A study of plays by such dramatists as Beckett, Miller, Williams, Pinter, Soyinka, and Churchill, with background readings from other dramatic literatures.

Exclusion: ENG338Y1

**ENG342H1 Contemporary Drama (formerly ENG339H1) 39L**

A study of ten or more plays by at least six recent dramatists.

Exclusion: ENG339H1

**ENG347Y1 Victorian Poetry and Prose (formerly ENG312Y) 78L**

Writers (such as Darwin, Tennyson, Browning, Wilde, Nightingale, Christina Rossetti, Kipling) respond to crisis and transition: the Industrial Revolution, the Idea of Progress, and the "Woman Question"; conflicting claims of liberty and equality, empire and nation, theology and natural selection; the Romantic inheritance, Art-for-Art's-Sake, Fin de siècle, and "Decadence."

Exclusion: ENG312Y

**ENG348Y1 Modern Poetry to 1960 78L**

Special study of Hopkins, Yeats, Pound, Eliot, and Stevens; selections from other poets.

**ENG 349H1 Contemporary Poetry 39L**

Works by at least six contemporary poets, such as Ammons, Ashbery, Heaney, Hughes, Lowell, Muldoon, and Plath.

**ENG350H1 Early Canadian Literature 39L**

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.

# English

<b>ENG352HI</b>	<b>Canadian Drama (formerly ENG223HI)</b>	<b>39L</b>	
	A study of major Canadian playwrights and developments since 1940, with some attention to the history of the theatre in Canada. Exclusion: ENG223HI		
<b>ENG353YI</b>	<b>Canadian Fiction (formerly ENG216YI)</b>	<b>78L</b>	
	A study of twelve or more Canadian works of fiction, primarily novels. Exclusion: ENG216YI		
<b>ENG354YI</b>	<b>Modern Canadian Poetry</b>	<b>78L</b>	
	A study of major Canadian poets, modern and contemporary.		
<b>ENG355HI</b>	<b>Indigenous Women's Literature</b>	<b>39L</b>	
	A study of works by Indigenous women writers from North America and beyond, with significant attention to Aboriginal 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.		
<b>ENG357HI</b>	<b>New Writing in Canada</b>	<b>39L</b>	
	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.		
<b>ENG360HI</b>	<b>Early American Literature</b>	<b>39L</b>	
	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, and court transcripts.		
<b>ENG363YI</b>	<b>Nineteenth-Century American Literature (formerly ENG358YI)</b>	<b>78L</b>	
	This course explores American writing in a variety of genres from the end of the Revolution to the beginning of the twentieth century. Exclusion: ENG358YI		
<b>ENG364YI</b>	<b>Twentieth-Century American Literature (formerly ENG359YI)</b>	<b>78L</b>	
	This course explores twentieth-century American writing in a variety of genres. Exclusion: ENG359YI		
<b>ENG365HI</b>	<b>Contemporary American Fiction (formerly ENG361HI)</b>	<b>39L</b>	
	This course explores six or more works by at least four contemporary American writers of fiction. Exclusion: ENG361HI		
<b>ENG368HI</b>	<b>Asian North American Poetry and Prose</b>	<b>39L</b>	
	Close study of works by Asian American and Asian Canadian authors, with attention to the historical and political contexts in which such works have been written and read. Topics may include racial, diasporic, and hybrid identity; cultural nationalism and transnationalism; gender and sexuality; the politics of poetic form. Exclusion: ENG279YI		
<b>ENG370HI</b>	<b>Postcolonial and Transnational Discourses</b>	<b>39L</b>	
	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.		
<b>ENG380HI</b>	<b>History of Literary Theory</b>	<b>39L</b>	
	Literary theory from classical times to the nineteenth century. Topics include theories of the imagination, genre analysis, aesthetics, the relations between literature and reality and literature and society, and the evaluation and interpretation of literature. Exclusion: ENG467YI		
<b>ENG382YI</b>	<b>Contemporary Literary Theory (formerly ENG366YI)</b>	<b>78L</b>	
	This course explores literary theory from the early twentieth century to the present. Schools or movements studied may include structuralism, formalism, phenomenology, Marxism, post-structuralism, reader-response theory, feminism, queer theory, new historicism, psychoanalysis, postcolonial theory, and cultural and race studies. Exclusion: ENG366YI		
<b>ENG383HI</b>	<b>Critical Methods (formerly ENG468HI)</b>	<b>39L</b>	
	Sustained study of one school, movement, or approach in literary theory, history, or criticism. Content varies with instructors. Exclusion: ENG468HI		
<b>ENG385HI</b>	<b>History of the English Language</b>	<b>39L</b>	
	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. Exclusion: ENG367YI		
<b>ENG389YI</b>	<b>Creative Writing (formerly ENG369YI)</b>	<b>52S</b>	
	Restricted to students who in the opinion of the Department show special aptitude for writing poetry, fiction, or drama. For application procedure, see Department Brochure by May 15. Prerequisite: Permission of instructor and the Associate Chair Exclusion: ENG369YI		
<b>ENG390YI/ 392HI/ 393HI/ 394YI</b>	<b>Individual Studies</b>	<b>TBA</b>	
	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. All project proposals should be submitted by May 15. Proposal forms are available from the Department offices. Exclusion: ENG490YI Prerequisite: Three courses in English, permission of the instructor and the Associate Chair		
<b>ENG391YI</b>	<b>Individual Studies (Creative)</b>	<b>TBA</b>	
	A project in creative writing 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. All project proposals should be submitted by May 15. Proposal forms are available from the Department offices. Prerequisite: Three courses in English, including ENG369YI, permission of the instructor and the Associate Chair		

**ENG398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**400-Series Courses**

**Note**

400-series courses are open to students who have obtained standing in at least nine full-course equivalents, including at least five full-course equivalent ENG or JEF courses. Students who require a 400-series course to satisfy their program requirements have enrolment priority in the first round of course enrolment. 400-series courses are taught in a seminar format: enrolment is limited to 25 and students are expected to attend regularly and participate fully. Not all 400-series courses are offered every year: please consult the Department's Brochure for further information.

**ENG402HI Special Studies in Old English Poetry 26S**

An undergraduate/graduate seminar devoted to a close reading of selected Old English texts.

Prerequisite: Five courses in English, including ENG240Y1

**ENG414HI/ Advanced Studies: Theory, 26S  
415HI/ Language, Methods  
416HI**

Individual topics to be specified by instructors.

**ENG417YI/ Advanced Studies: Theory, 52S  
418YI Language, Methods**

Individual topics to be specified by instructors.

**ENG419YI Advanced Research Seminar: 52S  
Theory, Language, Methods**

A seminar designed to provide students with the opportunity to practice their skills of research and interpretation at a particularly advanced level. Admission by permission of the Department.

**ENG424HI/ Advanced Studies: Canadian and 26S  
425HI Indigenous North American Literatures  
426HI**

Individual topics to be specified by instructors.

**ENG427YI/ Advanced Studies: Canadian and 52S  
428YI Indigenous North American Literatures**

Individual topics to be specified by instructors.

**ENG429YI Advanced Research Seminar: 52S  
Canadian and Indigenous North American  
Literatures**

A seminar designed to provide students with the opportunity to practice their skills of research and interpretation at a particularly advanced level. Admission by permission of the Department.

**ENG434HI/ Advanced Studies: American and 26S  
435HI Transnational Literatures  
436HI**

Individual topics to be specified by instructors.

**ENG 437YI/ Advanced Studies: American and 52S  
438YI Transnational Literatures**

Individual topics to be specified by instructors.

**ENG 439YI Advanced Research Seminar: 52S  
American and Transnational Literatures**

A seminar designed to provide students with the opportunity to practice their skills of research and interpretation at a particularly advanced level. Admission by permission of the Department.

**ENG460HI/ Advanced Studies: British 26S  
461HI/ Literature to the 19th Century  
462HI/  
463HI**

Individual topics to be specified by instructors.

**ENG464YI/ Advanced Studies: British 52S  
465YI/ Literature to the 19th Century  
466YI**

Individual topics to be specified by instructors.

**ENG469YI Advanced Research Seminar: 52S  
British Literature to the 19th Century**

A seminar designed to provide students with the opportunity to practice their skills of research and interpretation at a particularly advanced level. Admission by permission of the Department.

**ENG470HI/ Advanced Studies: Literature 26S  
471HI/ since the 18th Century  
472HI/  
473HI**

Individual topics to be specified by instructors.

**ENG474YI/ Advanced Studies: Literature 52S  
475YI/ since the 18th Century  
476YI**

Individual topics to be specified by instructors.

**ENG479YI Advanced Research Seminar: 52S  
Literature since the 18th Century**

A seminar designed to provide students with the opportunity to practice their skills of research and interpretation at a particularly advanced level. Admission by permission of the Department.

# Centre for Environment

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The Faculty of Arts and Sciences offers students a number of opportunities to study environment on the St. George campus. Students are encouraged to investigate the following environmental program options, as well as those of the new Centre for Environment ([www.environment.utoronto.ca](http://www.environment.utoronto.ca)). See below.

## **Environment & Resource Management (Arts program):**

(See program details under Geography, or at <http://www.geog.utoronto.ca/>)

These Specialist and Major programs can be linked with either the Centre's Arts or Science programs for an Honours Degree. This program focuses on resource and environmental planning, environmental assessment, water resources, waste management and Canada's forests from the perspective of Geography.

## **Environmental Studies (Arts program):**

(This program, formerly offered at Innis College, is now offered through the new Centre for Environment, and has been renamed Environmental Policy & Practice – see below)

## **Forest Conservation (Arts or Science programs):**

(See program details under Forestry, or at [www.forestry.utoronto.ca](http://www.forestry.utoronto.ca).)

These Specialist, Major and Minor programs can be linked with the Centre's science or arts programs for an Honours degree. Core subjects include world's forests, forest products in sustainable forestry, forest conservation practices, forest management and resource allocation, and forests and society. Other topics include biodiversity, sustainability, international policy, certification, intensive forest management, community management, forest health and forest fragmentation.

## **Physical & Environmental Geography (Science program):**

(See program details under Geography, or at <http://www.geog.utoronto.ca/>)

These Specialist and Major programs can be linked with the Centre'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.

## **Faculty**

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### **Cross-Appointed Full Professors**

P. H. Byer, SB, SM, PhD, PEng  
I. Leman Stefanovic, MA, Ph D  
W.H. Vanderberg, BASc, MASc, PhD, PEng

### **Cross-Appointed Associate Professors**

W.S. Prudham, BA, BSc, MA, PhD  
S. Scharper, Ph D

### **Cross-Appointed Assistant Professor**

C. Wiseman, Dr. Phil. Nat.

### **Senior Lecturers**

K. Ing, M Sc  
D.C. Macdonald, Ph D  
B.I. Savan, Ph D

The Faculty of Arts and Science established the Centre for Environment to help students focus the diverse strengths of the Faculty's environmental scholars into an academic program. In addition, the Centre's programs offer students access to environmental scholars in other units of the University.

### **Core Programs:**

The Centre offers HBA and HBSc minor, major and specialist programs: Environment and Science (Science), Environment and Society (Arts), and Environmental Policy and Practice (Arts) which are often taken in conjunction with another program(s) in a traditional academic field (e.g. Physics, Sociology, etc.). We consider this an ideal combination of disciplinary depth and interdisciplinary breadth.

The Centre's B.Sc. Environment and Science program is intended for students who are interested in studying and working in the environmental sciences with a focus on one of the Faculty's many scientific disciplines, from Actuarial Science through Psychology. The science program is a demanding one with a requirement for a number of 100-level science courses in Biology, Chemistry, Earth Sciences, Mathematics and Physics. This foundation is necessary to give students the degree of cross-disciplinary scientific literacy necessary for our 200-level science courses; ENV234Y (Environmental Biology), ENV235Y (Physics and Chemistry of Planet Earth) or ENV236Y (Human Interactions with the Environment). In most cases, students will be combining Environment and Science with another science option (a Specialist or Major or two Minors) for an Honours B.Sc. degree program.

The Centre's B.A. Environment and Society program is a broad general program intended for students interested in studying and working in an environmental area within the social sciences or humanities, e.g. geography, economics, ethics, or international relations. Environment and Society may also be appropriate for students taking a B.Sc. program who do not wish to also enroll in Environment and Science. In most cases students will be combining Environment and Society with another option (a Specialist or Major or two Minors) for an Honours B.A. or B.Sc. degree. Companion programs for students in Environment and Society could come from any of the Faculty's social sciences or humanities disciplines (including Commerce). NOTE: Students may not take both an Environment and Society program and an Environmental Policy and Practice program, unless one of them is not required to meet degree requirements.

In the Centre's Environmental Policy and Practice program (formerly Environmental Studies), understanding leads to action. This program offers rigorous academic study of the economic, social and political forces driving today's issues - globalization, species extinction, the Kyoto Protocol on climate change, the fight for sustainable cities, smog, toxic pollution and human health. The program links intellectual understanding of the environmental crisis with opportunities to use this knowledge to help solve these problems - here in the Toronto area, nationally and globally.

Students study in small classes with extensive faculty contact. The faculty include both academic scholars and professional practitioners, which means students gain both academic skills and knowledge, and practical skills and experience, both in the class-room and in the community. The program specializes in environmental policy and governance, and gives students a grounding in scientific literacy and evolving cultural attitudes

toward nature. Together, the academic and applied experience students gain in this program provides a solid foundation for graduate studies and professional careers. NOTE: Students may not take both an Environment and Society program and an Environmental Policy and Practice program, unless one of them is not required to meet degree requirements.

### **Interfaculty Combination: Environmental Policy and Practice and International Development Studies**

The program combination of Environmental Policy and Practice and International Development Studies is for students enrolled in the Faculty of Arts and Science on the St. George campus wishing to pursue a Specialist or Major program in Environmental Policy and Practice at the Centre in conjunction with a Major program in International Development Studies at the Scarborough campus, or for students enrolled at the Scarborough campus wishing to pursue a Specialist program in International Development Studies at Scarborough in conjunction with a Major program in Environmental Policy and Practice at the Centre (for the latter option, Scarborough students should consult the University of Toronto Scarborough *Calendar* for 2007-08).

### **Collaborative Specialist and Major Programs:**

The Centre offers six Science specialist programs: Environment & Health; Environmental Chemistry; Environmental Geosciences; Earth Systems: Physics and Environment; Past Environments; and Environment & Toxicology. The Centre also offers a collaborative major program in Environmental Geosciences, and a new collaborative Environmental Ethics B.A. major program. These programs combine the Centre'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 are science 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 page 25 of the *Calendar* for program requirement details).

All Science programs in the Centre include a very strong first-year science component with core interdisciplinary science courses in subsequent years. Students intending to pursue Environment and Science or any of the Science specialist programs are advised to choose first year courses from BIO 150Y1 and CHM (138H1, 139H1)/151Y1, MAT 135Y1/137Y1/157Y1/JMB 170Y1, PHY 138Y1/140Y1, GGR 100Y1. Students should compare specific program requirements and the prerequisites for ENV235Y1, 236Y1 when selecting specific courses.

Arts programs in the Centre build on a base of social science and humanities courses. Environment and Society, as well as Environmental Policy and Practice, do not require specific First Year courses. Students intending to follow arts programs in the environment might find it helpful to take ENV200Y1 in first year and 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 Centre for Environment programs are eligible for the Douglas Pimlott scholarships and awards, the new Robert Hunter Scholarship, and several other Centre-based scholarships (see <http://www.environment.utoronto.ca/UndergraduatePrograms/Scholarships/>)

Students interested in Centre for Environment programs should refer to the program listings on the following pages. Students should be aware that numerous programs not explicitly labeled as environmental have relevance for the study of the environment (e.g. Forestry Conservation, Ecology). For further information, see <http://www.environment.utoronto.ca/> or contact David Powell, Undergraduate Student Advisor, Centre for Environment at 33 Willcocks St., Room 1049A, 416-946-8100 or [david.powell@utoronto.ca](mailto:david.powell@utoronto.ca)

## **Centre for Environment Programs**

### **Environment & Science (Science program)**

Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 1049A, Earth Sciences Centre, 416-946-8100 or [david.powell@utoronto.ca](mailto:david.powell@utoronto.ca)

### **Specialist program:**

(13 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirement; must include at least four 300+-series courses, one of which must be at the 400-level)

Enrolment in this program is limited to students already in a two major program, one major of which is Environment and Science (see Major program note below). Students must also have completed 8 credits including JGE221Y1/JIE222Y1, one of ENV234Y1, 235Y1 or 236Y1. This is a Type 2 program requiring a minimum CGPA of 2.3. Not all qualified applicants may be admitted. As part of the application process to the Specialist program, a proposal for ENV490Y1 must be approved by the Centre and must identify a three-course transdisciplinary theme. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/>

#### **First Year:**

Successful enrolment in the Environment and Science Specialist program requires prior enrolment in the Environment and Science Major. Consequently, students must complete the first year requirements as listed in the Major program below. These courses are part of the 13 required courses for the Specialist.

#### **Higher Years:**

1. JGE221Y1/JIE 222Y1, ENV 234Y1, 235Y1/236Y1, 321Y1, 490Y1; ENV 410H1/JIE 410H1/an alternative approved research course
2. A minimum 0.5 FCE from ENV 421H1 or any approved departmental or college independent research project
3. ECO 220Y1/GGR (270H1, 271H1)/PSY (201H1, 202H1)/SOC 300Y1/STA (220H1, 221H1/BIO 225H1)/STA (250H1, 255H1)/(257H1, 261H1) or an approved alternative
4. Three 300+-level full courses contributing to a transdisciplinary theme for the ENV490Y1 course

# Centre for Environment

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## Major program:

(6 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirement; must include at least two full-course equivalents at the 300+-level)

This program must be taken in conjunction with another major towards fulfillment of an Honours B.Sc. degree. The student must complete at least 3 courses from the first-year list before enrolling in the Environment and Science Major. The six full course equivalents that constitute the Major Program are those listed below under "Higher Years." This is a Type 2 program requiring a minimum CGPA of 2.0. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/ApplicationProcedures>.

### First Year:

Students must complete BIO 150Y1 and at least two of CHM (138H1, 139H1)/151Y1; GGR 100Y1; MAT 135Y1/137Y1/157Y1/JMB 170Y1; PHY 110Y1/138Y1/140Y1 (PHY 138Y1 recommended) before applying to enrol in the Major program.

### Higher Years:

1. JGE221Y1/JIE 222Y1, ENV 234Y1, 235Y1/236Y1, 321Y1; ENV 410H1/JIE 410H1/an alternative approved research course
2. A minimum 0.5 FCE from ENV 421H1 or any approved departmental or college independent research project
3. ECO 220Y1/GGR (270H1, 271H1)/PSY (201H1, 202H1)/SOC 300Y1/STA (220H1, 221H1/BIO225H1)/STA (250H1, 255H1)/(257H1, 261H1) or an approved alternative

## Minor program:

(4 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirement; must include at least one full-course equivalent at the 300+-level)

Students must complete at least 3 of the first-year courses before applying to enrol in the Environment and Science Minor. The four courses that constitute the Minor Program are those listed below under "Higher Years." This is a Type 3 program requiring a minimum CGPA of 2.0. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/ApplicationProcedures>.

### First Year:

Students must complete BIO 150Y1 and at least two of CHM (138H1, 139H1)/151Y1; GGR 100Y1; MAT 135Y1/137Y1/157Y1/JMB 170Y1; PHY 138Y1/140Y1 before applying to enrol in the Minor program

### Higher Years:

JGE221Y1/JIE 222Y1, ENV 234Y1, 235Y1/236Y1, 321Y1

## Environment & Society (Arts program)

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Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 1049A, Earth Sciences Centre, 416-946-8100 or [david.powell@utoronto.ca](mailto:david.powell@utoronto.ca)

## Specialist program:

(10 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirement ; must include at least four 300+-series courses, one of which must be at the 400-level)

Enrolment in this program is limited to students already in a

two major program, one major of which is Environment and Society (see Major program note below). Students must also have completed 8 credits including JGE221Y1/JIE222Y1, and their science literacy requirement (see 3. below). This is a Type 2 program requiring a minimum CGPA of 2.3. Not all qualified applicants may be admitted. As part of the application process to the Specialist program, a proposal for ENV490Y1 must be approved by the Centre and must identify a three-course transdisciplinary theme. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/ApplicationProcedures>.

### First Year:

Successful enrolment in the Environment and Society Specialist program requires prior enrolment in the Environment and Society Major. Consequently, students must complete the first year requirements as listed in the Major program below.

### Higher Years:

1. JGE221Y1/JIE 222Y1, ENV 223H1, 321Y1, 490Y1, 410H1/JIE 410H1/or an approved alternative research skills course
2. A minimum 0.5 FCE from ENV 421H1 or any approved departmental or college-based independent research project
3. ENV 200Y1 or one full course equivalent from Group A or any Life Science course
4. 1.5 full course equivalents from Group B or alternatives approved by the Undergraduate Student Advisor of the Centre
5. Three 300+-level courses contributing to a transdisciplinary theme for the ENV490Y1 course

## Major program:

(6 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirement ; must include at least two full-course equivalents at the 300+-level)

This program must be taken in conjunction with another major towards fulfillment of an Honours degree program. However, the Major program in Environmental and Society cannot be combined with a Major or Minor program in Environmental Policy and Practice. The six courses that constitute the Major Program are those listed below under "Higher Years." This is a Type 2 program requiring completion of 4 full courses with a minimum CGPA of 2.0. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/ApplicationProcedures>.

### First Year:

Students must complete at least four full courses or their equivalent before applying to enrol in the Major program

### Higher Years:

1. JGE221Y1/JIE 222Y1, ENV 223H1, 321Y1, 410H1/JIE 410H1/or an approved alternative research skills course
2. A minimum 0.5 FCE from ENV 421H1 or any approved departmental or college-based independent research project
3. ENV 200Y1 or one full course equivalent from Group A or any Life Science course
4. 1.5 full course equivalents from Group B or alternatives approved by the Undergraduate Student Advisor of the Centre



## Minor program:

(4 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirement ; must include at least one full-course equivalent at the 300+-level)

The Minor program in Environmental and Society cannot be combined with a Major or Minor program in Environmental Policy and Practice. The four courses that constitute the Minor Program are those listed below under "Higher Years." This is a Type 2 program requiring prior completion of 4 courses with a minimum CGPA of 2.0. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/ApplicationProcedures>.

### First Year:

Students must complete at least four full courses before applying to enrol in the Minor program

### Higher Years:

1. JGE221Y1/JIE 222Y1, ENV 321Y1
2. ENV 200Y1 or one full course equivalent from Group A or any Life Science course
3. One full course equivalent from Group B or an alternative approved by the Undergraduate Student Advisor of the Centre

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### Group A:

ENV 200Y1; AST 121H1, 201H1; EEB/BOT 202Y1; CHM 200Y1; FOR 200H1; 201H1; GLG 102H1, 103H1, 105H1, 110H1, 205H1; JPU 200Y1; PHE 110H1; EEB/ZOO 200Y1, 214Y1, 215H1

### Group B:

ABS 250H1, 402H1; ANT 200Y1, 204Y1, 315H1, 349H1, 364Y1, 366H1, 450H1; APS 203H1, 302H1 (App. Sci. & Eng.); ECO 313H1, 314H1, 324Y1, 333Y1; ENV 223H1, 234Y1, 235Y1, 236Y1, 332H1, 333H1, 335H1, 340H1, 341H1, 350H1, 395Y1, 420Y1, 422H1, 423H1, 424H1, 440Y1, 441H1, 442H1, 443H1, 444H1, 445H1, 446H1, 447H1, 481H1, 482H1, 483Y1, 491Y1, 492H1, 493H1; FOR 300H1, 301H1, 302H1, 303H1, 400Y1, 401H1; GGR 233Y1, 330H1, 314H1, 331H1, 332H1, 333H1, 334H1, 335H1, 338H1, 393H1, 403H1, 409H1, 415H1, 418H1, 435H1, 451H1; HIS 318Y1, 404H1; HPS 202H1, 307H1, 313H1, 328H1; JAG321H1; JIE 307Y1; JUG 320H1; UNI 460Y1; PHL 273H1, 373H1; POL 201Y1, 318H1, 341H1, 346H1, 347Y1, 413H1, 469H1; PSY 335H1; RLG 228H1, 311H1, 345H1, 484H1; SOC 205Y1, 385H1; UNI 260Y1, 360Y1; or an alternative approved by the Undergraduate Student Advisor of the Centre

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## Environmental Policy and Practice (Arts program)

Environmental Policy and Practice is designed to be taken on its own, or in combination with either a BSc program (such as Biology, Geology, or Chemistry) or another BA program (such as Geography, Political Science, or Economics). However, a Major or Minor program in Environmental Policy and Practice cannot be combined with a Major or Minor program in Environment and Society. It is recommended that students give serious consideration to combining one of these Environmental Policy and Practice programs with another program. Students

are advised to consult with the Undergraduate Student Advisor about combining programs when enrolling in these programs - David Powell (416-946-8100 or [david.powell@utoronto.ca](mailto:david.powell@utoronto.ca)).

## Specialist program:

(11 full courses or their equivalent including at least one 400-level course)

### First Year:

Successful enrolment in the Specialist requires prior enrolment in the Environmental Policy and Practice Major or Minor and completion of at least 10 full-course equivalents, with a minimum mark of 70% in JGE221Y1/JIE222Y1. The CGPA and other relevant factors will also be a consideration.

### Higher Years:

1. Program Foundation: JGE221Y1/JIE222Y1, ENV 223H1, 320Y1, 332H1/333H1, 341H1, 422H1, 423H1
2. Statistics: 0.5 full-course equivalent statistics course or its equivalent in a course with significant statistics content (approved by the Undergraduate Student Advisor)
3. Applied Professional Experience: ENV 340H1, 440Y1 and ENV410H1, 420Y1/(443H1, 444H1)/one full-course equivalent of equivalent applied research course(s) approved by the Undergraduate Coordinator.
4. ENV Electives: 2 full-course equivalents from Group A
5. Electives: 1 full-course equivalent from among Groups A, B, C and D approved by the Undergraduate Student Advisor

Note: Students may request some modification of program course requirements (up to 1 full-course equivalent) that reflects their particular overall academic objectives. Consult with Undergraduate Student Advisor.

## Major program:

(7 full courses or their equivalent, including at least two 300+series courses)

### First Year:

Students must complete at least four full courses or their equivalent before applying to the Major; and have a minimum CGPA of 2.3, although exceptions may be made based on excellent performance in a relevant course(s), improved performance in the most recent academic year, or job and/or volunteer experience. Enrolment in this Type 2 program is limited.

### Higher Years:

1. Program Foundation: JGE221Y1/JIE222Y1; ENV 223H1, 320Y1, 332H1/333H1, 341H1, 422H1, 423H1
2. Applied Professional Experience: ENV 340H1, 440Y1 or ENV410H1, 420Y1/(443H1, 444H1)/ one full-course equivalent of equivalent applied research course(s) approved by the Program Director
3. ENV Electives: 1 full-course equivalent from among Groups A and B, of which at least 0.5 full-course equivalent must come from Group A

Note: Students may request some modification of program course requirements (up to 1 full-course equivalent) that reflects their particular overall academic objectives. Consult with Undergraduate Student Advisor.

# Centre for Environment

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## Minor program:

(4 full courses or their equivalent including at least one 300+ series course)

### First Year:

Students must complete at least four full courses or their equivalent before applying to the Minor, and have a minimum CGPA of 2.0, although exceptions may be made based on excellent performance in a relevant course(s), improved performance in the most recent academic year, or job and/or volunteer experience. Enrolment in this Type 3 program is limited.

### Higher Years:

1. Program Foundation: JGE221Y1/JIE222Y1, ENV 320Y1, 332HI/333HI, 341HI, 422HI/423HI
2. ENV Electives: 0.5 full-course equivalent from Group A or B

Note: Students may request some modification of program course requirements (up to 1 full-course equivalent) that reflects their particular overall academic objectives. Consult with Undergraduate Student Advisor.

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### Group A:

ENV 350HI, 422HI, 423HI, 424HI, 441HI, 445HI, 446HI, 447HI; JIE 307Y1

### Group B:

ENV 223HI, 234Y1, 235Y1, 236Y1, 315HI, 332HI, 333HI, 335HI, 340HI, 395Y1, 420Y1, 440Y1, 442HI, 443HI, 444HI, 481HI, 482HI, 483Y1, 491Y1, 492HI, 493HI; GGR338HI; IDSBO2HI (University of Toronto Scarborough)

### Group C (Social Science and Humanities):

ABS 250HI, 402HI; ANT 364Y1, 450HI; APS 203HI, 302HI (App. Sci. & Eng.); ECO 313HI, 314HI; FOR 302HI, 303HI, 400Y1, 401HI; GGR 233Y1, 272HI, 273HI, 314HI, 330HI, 331HI, 332HI, 334HI, 335HI, 393HI, 415HI, 418HI, 435HI, 473HI; HIS 318Y1, 404HI; HPS 307HI, 313HI, 324HI, 328HI; JAG321HI; UNI 460Y1; PHL 273HI, 373HI; POL 346HI, 347Y1, 413HI; RLG 228HI, 311HI, 345HI, 484HI; SOC385HI; UNI260Y1, 360Y1; other approved courses\*

### Group D (Life & Physical Science):

EEB/BIO 301H, 302HI, 303HI, 305HI, 306HI, 307HI, 308HI, 319HI, 321HI, 328HI, 365HI, 428HI, 440HI, 465HI, 468HI, 469HI, 471HI, 495Y1, 496Y1; CHM 310HI, 409Y1, 410HI, 415HI; FOR 200HI, 201HI, 300HI, 301HI, 400Y1, 401HI, 412HI, 413HI, 416HI; GGR 303HI, 305HI, 307HI, 310HI, 333HI, 373HI, 403HI, 409HI, 413HI, 462HI; GLG 351HI, 436HI, 450HI; JFG 470HI, 475HI; PCL 362HI, 473Y1, 474Y1, 481HI; PSY335HI; EEB/ZOO 265Y1, 304HI, 309Y1, 373HI, 375HI; other approved courses\*

### \*NOTE:

Some courses offered by other Faculties or at the University of Toronto Mississauga or Scarborough may be eligible for inclusion in Groups C and D above.

## Interfaculty Combination: Environmental Policy and Practice (Specialist, Major) and International Development Studies (Major) (Arts program)

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Consult the Undergraduate Student Advisor; David Powell (416-946-8100 or david.powell@utoronto.ca).

This is a limited enrolment combination. Students already enrolled in the Environmental Policy and Practice Specialist or Major may ballot for the International Development Studies (IDS) Major. **Note: St. George students cannot enroll in the IDS major without first enrolling in the Environmental Policy and Practice Major or Specialist; nor can they get academic credit for the IDS major without successfully completing the Environmental Policy and Practice Major or Specialist.**

Students enrolled in the Faculty of Arts and Science at the St. George Campus who wish to complete the interfaculty combination, must concurrently complete all requirements for the Environmental Policy and Practice Specialist or Major program outlined above. In addition, they must fulfill the requirements of the International Development Studies Major program or its equivalent as outlined below (for details, consult the University of Toronto Scarborough Calendar for 2007-08 ([www.UniversityofTorontoScarborough.utoronto.ca](http://www.UniversityofTorontoScarborough.utoronto.ca)) and Professor John Miron, Acting Supervisor International Development Studies (416-287-7287 or socscichair@UniversityofTorontoScarborough.utoronto.ca).

### SECTION I:

Students must take all 3.5 full-course equivalents:

ECMA01H3 Introduction to Microeconomics, ECMA05H3 Introduction to Macroeconomics or ECO100Y1/105Y1  
EESAO1H3 Introduction to Environmental Science or ENV200Y1  
IDSBO1H3 International Development Studies: Political Economy  
IDSBO2H3 International Development Studies: Development and Environment  
POLB90H3 Comparative Development in International Perspective, POLB91H3 Comparative Development in Political Perspective, or POL201Y1

### SECTION II:

Students must take 4.5 full course equivalents,\* with at least one full credit, from two of the following groups (see courses listed under each of these groups in the Scarborough 2007-08 Calendar):

- A. Social/Cultural Perspectives
- B. Policy Perspectives
- C. Environmental Perspectives

\* Students may substitute equivalent courses given in the Faculty of Arts and Science on the St. George Campus, but must get permission of the International Development Studies Supervisor.

## Earth Systems: Physics & Environment (Science program)

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Jointly sponsored by the Department of Physics, this program focuses on the solid earth, the oceans and the atmosphere at planetary scales emphasizing the Earth as a unified, dynamic system. Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 1049A, Earth Sciences Centre, 416-946-8100 or david.powell@utoronto.ca, or Dr. D. Bailey, Department of Physics, Room 328, McLellan Physical Labs, 416-978-6674.

## Specialist program:

(16 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirements ; must include at least four 300+-series courses, one of which must be at the 400-level)

This is a Type 2 program requiring a minimum CGPA of 2.3. The student must complete four courses from the First Year list before enrolling in the program. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/ApplicationProcedures>.

First Year:

CHM (138HI, 139HI)/151YI; BIO 150YI; MAT 135YI/137YI; PHY 138YI/140YI (140Y recommended)

Second Year:

JGE221YI/JIE 222YI; MAT 235YI/237YI, 244HI; PHY 251HI, 255HI

Third Year:

APM 346HI; ENV 234YI, 235YI, 321YI; PHY 351HI, 352HI

Third and Fourth Years:

1. ENV 410HI/JIE 410HI, ENV 421HI
2. Three FCE from: PHY 305HI/307HI/308HI/315HI/326HI/346HI/359HI/407HI/408HI/426HI/478HI/479YI/493HI/494HI/JGP438HI or any other PHY4XXH course.  
At least one FCE must be from the fourth year Physics options

## Environmental Chemistry (Science program)

Jointly sponsored by the Centre for Environment and the Department of Chemistry, this program focuses on the development of a fundamental background in chemistry as applied to understanding the chemical impacts of humankind's activities on the soil, air, and water. Emphasis is given to developing analytical skills and mechanistic understanding of the subject.

Enrolment in this program is limited. It requires prior completion of 4 courses with a minimum GPA of 2.3. Three courses must be from the First Year list. Apply through the Centre for Environment by: 1st Round: TBA; 2nd Round: TBA at: [www.artsci.utoronto.ca/current/undergraduate](http://www.artsci.utoronto.ca/current/undergraduate)

## Specialist program:

(13.5 full courses or their equivalent, including at least one 400-series course)

Jointly sponsored by the Centre for Environment and the Department of Chemistry, this program focuses on analytical theory, instrumentation and methodological aspects of organic and inorganic contaminants in soil, water, air and biological tissues.

First Year: BIO 150YI; (CHM 151YI strongly recommended)/ (138HI, 139HI); MAT 135YI/137YI; PHY 138YI/140YI

Second Year: CHM 217HI, 225YI/(220HI, 221HI), 238YI, 247HI/249HI (CHM249HI strongly recommended); ENV 235YI

Third and Fourth Years:

1. CHM 310HI, 410HI, 415HI; ENV 234YI, ENV321YI/(JGE 221YI/JIE222YI)
2. One additional FCE from 300/400-series CHM courses
3. (JIE 410HI, ENV421HI)/CHM 409YI/418YI/428YI/439YI\*/449YI

\*CHM 439YI has the prerequisite CHM 438HI.

## Environmental Geosciences ( Science program)

Jointly sponsored by the Centre for Environment and the Department of Geology. Topics include earth materials, sedimentary geology, aqueous geochemistry, hydrogeology and biogeochemistry. For more information, please contact David Powell, Undergraduate Student Advisor, Centre for Environment, Room 1049A, Earth Sciences Centre, 416-946-8100 or david.powell@utoronto.ca, or Professor J. Mungall, Department of Geology, mungall@geology.utoronto.ca. Students should note that under the Professional Geoscientists Act of 2000, individuals practising Environmental Geoscience in Ontario require education equivalent to the Specialist Program listed below or a P.Eng.

## Specialist program:

(16 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirement ; must include at least four 300+-series courses, one of which must be at the 400-level)

This is a Type 2 program requiring a minimum CGPA of 2.3. The student must complete four courses from the First Year list before enrolling in the program. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/ApplicationProcedures>.

First Year:

Students must complete BIO 150YI; CHM (138HI/139HI)/151YI; MAT 135YI/137YI; PHY 138YI/140YI

Second Year:

GLG 202HI, 206HI, 207HI, 216HI, (ENV 234YI/GLG217HI, EEB214HI); MAT 235YI/(MAT 223HI, GLG 204HI), STA220HI

Third and Fourth Years:

1. GLG 345H, 351HI, 360HI, 436HI, 448HI, 450HI; JGE221YI/JIE222YI, ENV 235YI, 315HI, 321YI
2. ENV 410HI/JIE401HI; ENV 421HI/GLG471HI

**Note:** GLG 340HI is recommended but not required for this specialist program.

## Major program:

(8.5 full courses or their equivalent; must include at least two full-course equivalents at the 300+-level)

First Year:

CHM (138HI, 139HI)/151YI; MAT 135YI/137YI; PHY 138YI/140YI

Second Year:

ENV 235YI; GLG 202HI, 206HI, 207HI, 216HI, 217HI

Third and Fourth Years:

ENV 315HI; GLG 351HI, 436HI, 448HI

## Environment & Health (Science program)

Jointly sponsored by New College, the Human Biology Program, and the Basic Medical Science Departments of the Faculty of Medicine. Provides a basic understanding of the behaviour of Planet Earth, the workings of the human body, and the complex relationships between the two. Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 1049A, Earth Sciences Centre, 416-946-8100 or david.powell@utoronto.ca, or Office of the Registrar, New College, 300 Huron Street, 416-978-2460.

# Centre for Environment

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## Specialist program:

(14.5 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirements; must include at least four 300+-series courses, one of which must be at the 400-level)

This is a Type 2 program requiring a minimum CGPA of 2.3. The student must complete four courses, including three from the First Year list below before enrolling in the program. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/> ApplicationProcedures.

### First Year:

Students must complete BIO 150Y1; CHM (138H1, 139H1)/151Y and one of GGR 100Y1; MAT 135Y1/137Y1/157Y1/JMB 170Y1; PHY 110Y1/138Y1/140Y1 (PHY 138Y1 recommended); PSY100H1. \*Students are encouraged to select an FCE from ANT/ECO/GGR/HIS/SOC to maximize elective course choice in later years.

### Second Year\*:

(BCH 210H1, CHM 247H1); BIO 250Y1/255Y1; JGE221Y1/JIE 222Y1; ENV 234Y1/(235Y1/236Y1)\*\*; PHL 273H1; BIO 260H1/HMB 265H1

### Third Year\*:

CSB/BIO 349H1/JLM 349H1/LMB 363H1/NFS 284H1/PSL 302Y1; ENV 321Y1; the other of ENV 234Y1/(235Y1/236Y1)\*\*; (STA 220H1, 221H1/BIO225H1)

### Fourth Year:

1. ENV 410H1/JIE410H1
2. ENV 421H1 or a minimum of 0.5 FCE from any approved departmental or college independent research project
3. Two FCE, approved by the Undergraduate Student Advisor of the Centre, including at least one 300-series course from ANA/ANT/BCH/(CSB/BIO)/(EEB/BIO)/(CSB/BOT)/(EEB/BOT)/CHM/HMB/IMM/JBI/JZM/LMP/MBY/NFS/PCL/(CSB/ZOO)/(EEB/ZOO)/ECO 369Y1/ENV 341H1/(GGR 409H1, 450H1, 451H1)/(HIS 460H1, 463H1)/NEV 367H1/(SOC 242Y1/(243H1, 244H1)/255Y1/(256H1, 257H1)/309Y1/312Y1/363H1) or any other approved course for which the student has appropriate prerequisites. The two FCE should reflect the particular academic interests of each student.

### Notes:

1. \* Some second and third year courses in this program have specific prerequisites. Students should check prerequisites for the higher level courses they are interested in prior to making first year course selections
2. \*\* In choosing between ENV 235Y1 and ENV 236Y1, students should pay particular attention to their respective prerequisites

## Past Environments (Science program)

A multi-disciplinary program focused on the changing nature of the relationship between the environment and humans over the past 2 million years. Co-sponsored by the Centre, the Department of Anthropology, and the Program in Archaeology. Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 1049A, Earth Sciences Centre, 416-946-8100 or [david.powell@utoronto.ca](mailto:david.powell@utoronto.ca), or Undergraduate Program Administrator/Student Counsellor, Department of Anthropology, Room 1030, Sidney Smith Hall, 416-978-6414.

## Specialist program:

(15 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirements; must include at least four 300+-series courses, one of which must be at the 400-level)

This is a Type 2 program requiring a minimum CGPA of 2.3. The student must complete four courses from the First Year list. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to <http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/> ApplicationProcedures.

### First Year:

ANT 100Y1; BIO 150Y1; MAT 135Y1/137Y1/157Y1/JMB 170Y1; GGR 100Y1

### Second Year:

1. ANT 200Y1; JGE221Y1/JIE 222Y1
2. One FCE from: GGR 201H1/203H1/205H1/206H1
3. One FCE from: ENV 234Y1/236Y1

### Third and Fourth Years:

1. ANT 203Y1, 311Y1/(ARH361H1 and 0.5 FCE 400-level course from Group A of Archaeology Calendar entry on page 64); ARH 305H1; ENV 321Y1
2. The other of ENV 234Y1/236Y1; GGR 302H1/GLG 436H1
3. One FCE from: ANT 409H1/410H1/434H1/436H1/471H1;
4. ENV 410H1/JIE410H1, ENV 421H1/ANT 415Y1/497Y1/498H1/499H1

## Environment & Toxicology (Science program)

Toxicology is the study of the harmful effects of chemicals. The Environment and Toxicology program examines the adverse effects of chemicals at the ecological level. This program prepares students for advanced graduate study and research in environmental toxicology, and for consultative positions in governmental agencies and industry. Students interested in biomedical toxicology (the adverse effects of chemicals on human health) should consider enrolling in the Specialist Program in Toxicology offered by the Department of Pharmacology. Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 1049A, Earth Sciences Centre, 416-946-8100 or [david.powell@utoronto.ca](mailto:david.powell@utoronto.ca), or Dr. C. Woodland, Department of Pharmacology, Medical Sciences Building, 416-946-3102

## Specialist program:

(15 full courses or their equivalent which includes fulfillment of the Faculty's Distribution requirements; must include at least four 300+-series courses, one of which must be at the 400-level)

This is a Type 2 program requiring a minimum CGPA of 2.3. The student must complete four courses from the First Year list before enrolling in the program. Information on application and acceptance timelines is available in the Registration Handbook and Timetable. For more information, please refer to [http://www.environment.utoronto.ca/UndergraduatePrograms/](http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/) ApplicationProcedures/ ApplicationProcedures.

## (Program enrolment in 2005 and after)

First Year:

Students must complete BIO 150Y1; CHM (138H1, 139H1)/151Y1 and at least two of GGR 100Y1; MAT 135Y1/137Y1/157Y1/JMB 170Y1; PHY 110Y1/138Y1/140Y1 (PHY 138Y1 recommended). In selecting courses, students should consider prerequisites for courses they intend to take later.

Second Year:

1. BCH 210H1/BCH 242Y1; BIO 250Y1/255Y1; JGE221Y1/JIE 222Y1; CSB/ZOO 252Y1/PSL 201Y1/PSL 302Y1; PCL 201H1
2. CHM 217H1/220H1, CHM 247H1/249H1

Third and Fourth Years:

1. ENV 234Y1/235Y1/236Y1, 321Y1
2. PCL 302H1, 362H1; PCL 376H1/STA 220H1/STA 221H1/BIO225H1 (see NOTE 1, below)
3. CHM 310H1/GGR 409H1/PCL 470Y1/481H1/LMP 301H1/363H1 (see NOTE 2, below)
4. PCL 473Y1
5. (ENV 410H1/JIE410H1, ENV 421H1)/PCL 474Y1 (see NOTE 3, below)

## (Program enrolment in 2004 and earlier)

First Year:

Students must complete BIO 150Y1 and at least three of CHM (138H1, 139H1)/151Y1; GGR 100Y1; MAT 135Y1/137Y1/157Y1/JMB 170Y1; PHY 110Y1/138Y1/140Y1 (PHY 138Y1 recommended). In selecting 100-series courses, students should consider prerequisites for courses they intend to take later, i.e., ENV 235Y1/236Y1.

Second Year:

1. BIO 250Y1/255Y1; ENV 221Y1/JIE 222Y1; CSB/ZOO 252Y1/PSL 201Y1/PSL 302Y1
2. CHM 220H1, PCL 376H1/STA 220H1/ STA 221H1/BIO225H1 (see NOTE 1, below)

Third and Fourth Years:

1. (BCH 310H1, JLM 349H1/CSB/BIO349H1)/BCH 242Y1/(BCH 210H1, PCL 201H1); ENV 321Y1
2. PCL 302H1, 362H1; and one of ENV 234Y1/(235Y1/236Y1)
3. CHM 310H1/GGR 409H1/PCL 470Y1/481H1/LMP(301H1/363H1) (See NOTE 2, below)
4. PCL 473Y1
5. The other of ENV 234Y1/(235Y1/236Y1), (ENV 410H1/JIE410H1, ENV 421H1)/PCL 474Y1(See NOTE 3, below)

## Notes:

1. PCL 376H1 is a pre- or co-requisite for students intending to take PCL 474Y1. Students taking PCL 474Y1 must also take PCL 201H and PCL 302Y1 as prerequisites.
2. Students taking PCL481H1 must take BCH 210H1, LMP 363H1, and PCL 362H1 as prerequisites.
3. Students intending to take PCL 474Y1 instead of (ENV 410H1/JIE410H1, ENV 421H1) must obtain permission from the Undergraduate Student Advisor of the Centre for Environment 3 months prior to the intended date of enrolment in PCL 474Y1. Students must also consult with the Department of Pharmacology at least 3 months prior to the intended date of enrolment as the student is responsible for arranging for a supervisor.

## Environmental Ethics (Arts program)

Jointly sponsored by the Centre for Environment and the Department of Philosophy, this program explores how value judgements and worldviews affect environmental decision making. For more information, contact David Powell, Undergraduate Student Advisor, Centre for Environment, Earth Science Centre, Rm. 1049A (416-946-8100, or david.powell@utoronto.ca).

### Major program:

(6.0-6.5 full courses or their equivalent)

This Type 2 program requires a minimum CGPA of 2.0.

1. One of JGE221Y1/JIE222Y1
2. ENV 321Y1
3. PHL 273H1
4. One FCE from PHL 373H1, ENV 332H1, 333H1
5. ENV 491Y1/ 492H1, 493H1/ 410H1, 421H1
6. 1.5 FCE's from Group A.

### Group A:

ABS 402H1	Traditional Indigenous Ecological Knowledge
ECO 105Y1	Principles of Economics for Non-Specialists
ENV 335H1	Environmental Design
ENV 424H1	Environment and Community Engagement
ENV 442H1	Corporate Perspectives on the Environment
ENV 447H1	The Power of Economic Ideas
FOR 302H1	Societal Values and Forest Management
HIS318Y1	Canadian Environmental History
HPS 202H1	Technology in the Modern World
HPS 307H1	History of Energy
JAG 321H1	Aboriginal People & Environmental Issues in Canada
PHL 275H1	Introduction to Ethics
PHL 295H1	Business Ethics
PHL 375H1	Ethics
PHL 394H1	Markets and Morals
PHL 395H1	Issues in Business Ethics
PHL 413H1	Seminar in Applied Ethics
PSY 335H1	Environmental Psychology
RLG 228H1	Religious Ethics: the Environment
RLG 311H1	World Religions and Ecology
RLG 345H1	Social Ecology and Judaism

### Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. PHL273H1
2. PHL373H1
3. JGE221Y1/JIE222Y1
4. Two additional FCE's in PHL, with at least one half course 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 one half-course in ethics.

## Directed Environmental Minors

### Environmental Anthropology (Arts program)

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), Sidney Smith Hall, Rm. 1030

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## Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. ANT 100Y1/JGE 221Y1/JIE 222Y1
2. ANT 200Y1/204Y1
3. Two FCE's from: ABS 250H1/402H1; ANT 315H1/333Y1/349H1/364Y1/365Y1/420H1/ 429Y1/450H1/453H1/471H1

## Environmental Biology (Science program)

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Consult the Undergraduate Office in the Department of Ecology and Evolutionary Biology

## Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. BIO 150Y1; ENV 234Y1
2. Two FCE's from: EEB/BIO 319H1, 321H1, 323H1, 324H1, 328H1, 362H1, 365H1, 370H1; EEB/ZOO 322H1 (a course in ecology and a course in evolution are recommended)

## Environmental Chemistry (Science program)

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Environmental chemistry is the study of the chemical impacts of humankind's activities on the soil, air, and water. This minor provides a balanced fundamental background in chemistry as well as an introduction to the major issues associated with environmental chemistry.

Contact Professor J. Abbatt, Department of Chemistry (416-946-7358)

## Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. CHM (138H1, 139H1)/151Y1
2. One full course equivalent from CHM 217H1, (220H1, 221H1)/225Y1, 238Y1, 247H1/249H1
3. ENV235Y
4. Any two of CHM 310H1, 410H1, 415H1

## Environmental Economics (Arts program)

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Consult Ms. R. Innes, Undergraduate Administrator, Department of Economics (416-978-8616)

Enrolment in the Environmental Economics Minor program is limited to students with 67% in ECO 100Y1 or 80% in ECO 105Y1, who have completed MAT 133Y1/135Y1/137Y1, and who have a CGPA of 2.0.

## Minor program:

(4 full courses or their equivalent)

1. ECO 100Y1/105Y1
2. MAT 133Y1/135Y1/137Y1
3. ECO 200Y1/206Y1
4. One full ECO course at the 300+ level, including at least one of ECO 313H1 and/or ECO 314H1

## Note:

Students enrolled in this Minor program cannot be enrolled in the Minor program in Economics or the Minor program in Economic History.

## Environmental Geosciences (Science program)

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Consult Professor J. Mungall, Department of Geology (mungall@geology.utoronto.ca)

## Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. ENV 235Y1
2. GLG 202H1, 206H1, 207H1, 216H1, 351H1; ENV 315H1

## Geographic Information Systems (Arts program)

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GIS is the analysis and management of spatial data. It focuses on the mapping, modeling, and monitoring of the earth's surface, its resources, and its natural and socio-economic processes. Consult Susan Calanza, Department of Geography (416-978-6455)

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.

## Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. GGR 100Y1/107Y1/124Y1
2. GGR 270H1, 272H1, 273H1, 373H1, (462H1/473H1)
3. Another half GGR course from Group B (see Geography, at the end of its program listings).

## Life, Environment and General Physics (Science program)

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Basic understanding of physics for students focusing their academic studies in Life Sciences and/or the Environment. Consult Physics Undergraduate Office, Room MP301 (416-978-7057/416-978-6674)

## Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. MAT 135Y1/137Y1; PHY 138Y1/140Y1
2. ENV 235Y1/ PHY 238Y1 or any other 1 full course equivalent from PHY courses at the 200+ level
3. One full course or equivalent from: CSB/BIO472H1/JPA 305H1/310H1/JGP 438H1/PHY 315H1/346H1/445H1 or any other PHY300+ course. JBO302Y may count as 0.5 FCE towards this requirement.

## Physical and Environmental Geography (Science program)

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Consult Susan Calanza, Department of Geography (416-978-6455)

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.

## Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. GGR 100Y1
2. One full course or equivalent from: GGR 201H1/203H1/205H1/206H1
3. GGR 390H1, (301H1/302H1/305H1), (272H1/307H1/310H1/312H1)
4. A half-course from Group C in the Geography listings of the Calendar

## Environment Courses

See page 33 for Key to Course Descriptions

To find ENV course categories For Distribution Requirement purposes (see page 27), see entry at end of each course.

NOTE: Many ENV courses are limited in enrolment and require specific prerequisites. Preference is given to students meeting the ROSI deadlines.

### **ENV200Y1    Assessing Global Change:            52L, 12T** **Science and the Environment**

The perspective scientists bring to the understanding and resolution of environmental concerns having global implications: atmospheric systems and climate change, the biosphere and conservation of biodiversity.  
Exclusion: BIO150Y1 (applies only to students in Arts & Science)  
This Science course is intended to fulfill the environmental literacy requirement for students in the BA programs of the Centre for Environment or the science distribution course requirement for Commerce, Humanities and Social Science students.

### **JGE221Y1    Environment and                                52L, 5P, 10T** **Sustainable Development**

The foundation for students in the Centre for Environment programs and the Environment and Resource Management Program in Geography, this course addresses social, ethical and biophysical dimensions of problems in sustainable development, the need for environmental action, and some tools that lead to solutions. Draws from relevant interdisciplinary domains in an examination of environmental degradation, the responses of various actors and models for a more sustainable future. The environmental issues given special consideration vary from year to year.

Exclusion: JIE 222Y1/GGR 233Y1

Recommended Preparation: GGR 100Y1/107Y1

This is a social science course.

### **ENV223HI    Fundamental Environmental            26L, 13T** **Skills** **(formerly INI223HI)**

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.

Co-requisite: JGE221Y1 and enrolment in a Centre Major program, or permission of Undergraduate Student Advisor.

Exclusion: INI 223HI

This is a Social Science course.

### **ENV234Y1    Environmental Biology                        52L, 39P**

A broad-based science course drawing on elements from geology, systematics, soil science, and ecology to understand past and present environments and how humans are altering the environment. Emphasis is placed on examination of ecological phenomena in relation to population, community and ecosystem processes with particular reference to the biomes of Ontario. Descriptive and experimental laboratory studies including a weekend field trip (total cost about \$15.00). (Provided by the Department of Ecology and Evolutionary Biology, Department of Geology, and the Faculty of Forestry).

Prerequisite: BIO150Y1 (recommended) or GGR100Y1

This is a Science course.

### **ENV235Y1    Physics and Chemistry of                        52L, 26T** **Planet Earth**

This course considers the fundamental chemical and physical processes of the Earth's natural environment. One semester of the course focuses primarily on the atmosphere: its evolution, structure, composition and dynamic character. Particular emphasis is given to a discussion of global climate and the underlying physical, chemical and biogeochemical factors that drive climate change. Within this context, stratospheric ozone depletion, ocean chemistry, urban air pollution, acid rain and water quality are also discussed. The other semester focuses on the solid Earth: its formulation and evolution, internal dynamics, mantle-core differentiation, volcanism, tectonics and paleoclimate/ice ages. Throughout the course, the operation of the Earth as a coupled physico-chemical system over a range of timescales is emphasized.  
Prerequisite: CHM (138HI, 139HI)/151Y1/157Y1, MAT135Y1/137Y1/JMB170Y1, PHY138Y1/140Y1

This is a Science course.

### **ENV236Y1    Human Interactions with                        52L** **the Environment**

A course emphasizing both the role of the environment in shaping human behaviour, and the impact of humans on the environment. Coverage includes human biological and cultural evolution, environmental and climatic obstacles over come by early civilizations, and human impacts on marine and terrestrial ecosystem processes. Topics may vary from year-to-year depending upon instructor interests and research specialty.

Prerequisite: BIO150Y1/GGR100Y1 or permission of instructor

This is a Science course.

### **ENV299Y1    Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

### **JIE307Y1    Urban Sustainability                                52L, 26P** **(formerly INI307Y1)**

This course critically examines the concept of urban sustainability in theory and application. Case studies of ongoing urban sustainability programs in the developed 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.

Prerequisite: One of the following: JGE221Y1/JIE222Y1 and enrolment in a Centre program OR INI235Y1 OR permission of the instructor (particularly for students who have completed JGE221Y1/GGR233Y1/POL209Y1/SOC 205Y1/260Y1)

Exclusion: INI 307Y1

This is a Social Science course.

### **ENV315HI    Chemical Analysis of                                26L, 39P** **Environmental Samples**

Instrumental analysis techniques for environmental scientists of all disciplines. In addition to a solid grounding in the theory of each analytical technique, particular emphasis is placed on the laboratory work, which is worth 50% of the final grade. In each lab, groups of two students receive instruction from an experienced analyst and acquire hands-on experience using state-of-the-art analytical equipment. Where possible, samples supplied by the students are analyzed. Techniques covered include Neutron Activation, X-ray Fluorescence, X-ray Diffraction, Scanning Electron Microscopy, Gas Chromatography, Ion Chromatography, Atomic Absorption, Inductively Coupled Plasma Optical Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry.  
Exclusion: CHM217HI, 314Y1; GLG335HI  
Prerequisite: SCH4U and any second year ENV or GLG courses

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This is a Science course.

**ENV320YI National and International Environmental Policy Making (formerly INI 320YI) 52L, 26T**

Examination of federal-provincial negotiation of Canadian contributions to international environmental agreements such as the UN Framework Convention on Climate Change  
Prerequisite: JGE221Y1/JIE 222Y1 and enrolment in a Centre program, or permission of the Undergraduate Student Advisor.  
Exclusion: INI 320Y1

This is a Social Science course

**ENV321YI Approaches to Environmental Issues (formerly ENV221YI) 52L, 24T**

Diverse approaches to environmental issues from a variety of perspectives are introduced, compared and analyzed, using topical case studies. Perspectives explored in previous years include aboriginal, scientific and psychological.

Exclusion: ENV221Y1

Prerequisite: a minimum CGPA of 2.0

Recommended preparation: JGE221Y1/JIE222Y1/GGR233Y1

This is classified as BOTH a Social Sciences and a Humanities course.

**ENV332HI Culture and Nature (formerly INI332HI) 26S**

Critical analysis of western attitudes and values respecting nature, as found in various art and popular culture genres; significance for action on the ecological crisis.

Prerequisite: a minimum CGPA of 2.3

Recommended preparation: JGE221Y1/JIE222Y1/GGR233Y1

Exclusion: INI332HI

This is classified as BOTH a Social Sciences and a Humanities course.

**ENV333HI Ecological Worldviews (formerly INI333HI) 26S**

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 aboriginal perspectives.

Prerequisite: a minimum CGPA of 2.3

Recommended preparation: JGE221Y1/JIE222Y1/GGR233Y1

Exclusion: INI 333HI

This is classified as BOTH a Social Sciences and a Humanities course.

**ENV335HI Environmental Design (formerly INI335HI) 39S**

Introduction to understanding the complexity of relationships among people, built forms, and natural systems; systematic review of examples of environmental design at various scales.

Prerequisite: a minimum CGPA of 2.3

Recommended preparation: JGE221Y1/JIE222Y1/GGR233Y1

Exclusion: INI 335HI

This is a Social Science course.

**ENV340HI Informed Environmental Practice (formerly INI340HI) 26S, 13T**

This course will prepare students for challenging careers in the environmental field. Students will develop professional and research skills that will assist in the development of a challenging and meaningful career. Emerging social, economic, environmental, and ethical issues in the workplace will be explored.

Prerequisite: Eight full courses or their equivalent and enrolment in an environmental program at the University of Toronto

Exclusion: INI 340HI

This is a Social Science course.

**ENV341HI Environment and Human Health (formerly INI341HI) 26L, 13T**

Examination of the linkages between human health and environment. Addresses basic principles and scientific knowledge relating to health and the environment and uses case studies to examine current environmental health issues from a health sciences perspective.

Prerequisite: JGE221Y1/JIE222Y1 and enrolment in a Centre program, or permission of the Undergraduate Student Advisor

Exclusion: INI 320Y1, if taken before the 2003-04 academic year; INI 341HI

This is classified as BOTH a Social Science and Science course.

**ENV350HI Energy & Climate Change Policy and Politics 26L**

This course explores the central importance of energy and climate change locally and globally, and analyses factors influencing energy policy decisions.

Prerequisite: JGE221Y1/JIE222Y1, or permission of undergraduate student advisor

This is a Social Science course.

**ENV395YI Special Topics Field Course 52S**

This course explores interdisciplinary environmental issues in the field. Project work involves students in investigating, developing and proposing sustainable practices and approaches to topical local problems. Suitable for all CFE programs.

Recommended preparation: ENV200Y1 or BIO150Y1

This is a Science or Social Science course

**ENV398H0/ 399Y0 Independent Experiential Study Project**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**ENV410HI Environmental Research Skills (formerly JIE410HI) 26L**

The purpose of this course is to introduce students to the perspectives and methods used for quantitative and qualitative research on humans, done for both academic and professional purposes. The focus is on qualitative research on current environmental issues.

Prerequisite: Enrolment in an environmental program and completion of at least 10 full courses

Co-requisite: ENV420Y1/421HI/444HI/a recognized alternative

Exclusion: JIE410HI

This is classified as BOTH a Social Sciences and a Humanities course.



**ENV420Y1 Environmental Research (formerly INI420Y)**

Advanced environmental research on environmental topics of current relevance, involving information sources and resources outside the University. Students work in teams to investigate and report on a specific environmental issue for an off-campus environmental agency.

Prerequisite: JGE221Y1/JIE222Y1; ENV 320Y1/321Y1 and enrolment in a Centre program, or permission of instructor  
Co-requisite: ENV410H1 if taken as a program requirement  
Exclusion: INI 420Y1

This is a Social Science course.

**ENV421H1 Environmental Research 26S**

A research course for all students in the Centre combining report writing, independent and group-based research on an interdisciplinary topic. Application of skills learned in ENV410H1.

Prerequisite: JGE221Y1/JIE222Y1, ENV 320Y1/321Y1 or permission of the Undergraduate Student Advisor

Corequisite: ENV410H1

This is classified as BOTH a Social Sciences and a Humanities course.

**ENV422H1 Environmental Law 26S (formerly INI422H1)**

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: JGE221Y1/JIE222Y1 and enrolment in a Centre program, or permission of Undergraduate Student Advisor

This is a Social Science course.

**ENV423H1 Public Policy and Environment 26S (formerly INI421H1)**

Introduces students to public policy and institutional foundations of public policy in Canada, with an emphasis on environmental policy in Ontario. Provides an “insider’s” perspective on how environmental policy has been developed in Ontario.

Prerequisite: JGE221Y1/JIE222Y1 and enrolment in a Centre program, or permission of Undergraduate Student Advisor

Exclusion: INI 421H1

This is a Social Science course.

**ENV424H1 Environment and Community Engagement 26L**

This course integrates theoretical and practical perspectives on patterns of community engagement in environmental change. Students will address theoretical perspectives on environmentalism as a social movement, and learn about key aspects of planning and implementing environmental change from veteran environmental advocates.

Prerequisite: ENV222Y1/JIE 222Y1, or permission of undergraduate student advisor

This is a social science course.

**ENV440Y1 Professional Experience Course (formerly INI440Y1)**

Regular academic seminars complement off-campus work on an environmental project. 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, industry).

Prerequisite: ENV340H1; 10 full courses or their equivalent, including three environmental courses in the student’s

environmental program completed before ENV440Y1 taken; permission of Undergraduate Student Advisor

Exclusion: INI 440Y1

This is a Social Science course.

**ENV441H1 Politics of the Environment 26S (formerly INI494H1)**

Provides students with increased understanding of (1) the political conflicts which surround the development and implementation of environmental policy in Canada; and (2) the ways environmentalism is transforming Canadian and global politics. Examination is made, through secondary readings and case studies, of the values, perspectives, and strategies of the various actors, and the context of ideas and institutions within which they operate.

Prerequisite: JGE221Y1/JIE222Y1 and enrolment in a Centre for Environment program, or permission of Undergraduate Student Advisor

Exclusion: INI 494H1

This is a Social Science course.

**ENV442H1 Corporate Perspectives on the Environment 39S (formerly INI442H1)**

How business in Canada and elsewhere is responding to the post-war emergence and evolution of the values of environmentalism. The corporate “perspective” includes: the external world of governments, markets, environmental pressure groups, investors, insurers, and lenders; and how the firm responds to these external pressures and manages its environmental issues.

Prerequisite: JGE221Y1/JIE222Y1 and enrolment in a Centre for Environment program, or permission of Undergraduate Student Advisor

Exclusion: INI 442H1

This is a Social Science course.

**ENV443H1/ Applied Environmental Research Course 444H1 (formerly INI443H1/444H1)**

Advanced applied environmental research on environmental topics of current relevance, involving information sources and resources outside the University. Students work in teams to investigate and report on research conducted for an off-campus environmental organization.

Prerequisite: JGE221Y1/JIE222Y1, ENV 320Y1/ENV321Y1 and completion of at least 10 FCE and enrolment in a Centre for Environment program, or permission of the Undergraduate Student Advisor.

Exclusion: INI 443H1/444H1

This is a Social Science course.

**ENV445H1 US Environmental Politics 26S (formerly INI445H1)**

Study of the factors which determine US federal environmental decisions which in turn both heavily influence international environmental politics and, in an integrated North American economy, comparable domestic decisions made in Ottawa.

Prerequisite: JGE221Y1/JIE222Y1 and enrolment in a Centre for Environment program, or permission of Undergraduate Student Advisor

Exclusion: INI 445H1

This is a Social Science course.

**ENV446H1 Cities & Urban Environmentalism in a Global Context (formerly INI446H1)**

Provides an opportunity for in-depth exploration of the implications for urban governance and environmental protection

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of three inter-connected phenomena: globalization of the political economy; restructuring of the state; emergence of the city as a global actor.

Prerequisite: JGE221Y1/JIE222Y1 and enrolment in a Centre program, or permission of Undergraduate Student Advisor  
Exclusion: INI 446H1

This is a Social Science course.

### **ENV447HI    The Power of Economic Ideas    26S** **(formerly INI447HI)**

From Keynesianism to trading in greenhouse gas permits, the principles of economics have had far greater impact on policy than those of any other discipline; the course examines that power in the field of environmental policy, including the struggle of ecological economics with mainstream economics to introduce new ideas such as scale, place, and inherent value.

Prerequisite: JGE221Y1/JIE222Y1 and enrolment in a Centre program, or permission of Undergraduate Student Advisor  
Exclusion: INI 447H1

This is a Social Science course.

### **ENV481HI/    Special Topics in    26S** **482HI        the Environment**

Special topics course designed for advanced Specialist and Major students in Centre for Environment programs.

Prerequisite: JGE221Y1/JIE222Y1 and completion of at least 10 FCE and enrolment in a Centre Environmental program, or permission of Undergraduate Student Advisor.

These are Social Science courses.

### **ENV483YI    Special Topics in    52S** **the Environment** **(formerly INI497YI)**

Special topics course designed for advanced Specialist and Major students in Centre for Environment programs.

Prerequisite: JGE221Y1/JIE222Y1 and completion of at least 10 FCE and enrolment in a Centre for Environmental program, or permission of the Undergraduate Student Advisor

Exclusion: INI 497Y1

This is a Social Science course.

### **ENV490YI    Senior Essay**

Open only to Specialists in the Environment and Science, and Environment and Society programs, who have completed 15 courses. A major scholarly essay demonstrating the student's ability to integrate the individual course elements from their theme.

Prerequisite: JGE221Y1/JIE222Y1 and completion of 14 FCE and enrolment in a Centre for Environment program

Co-requisite: ENV421H1

### **ENV491YI/    Independent Studies** **492HI/        Project** **493HI        (formerly INI491YI/492HI/493HI)**

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. A written proposal cosigned by the student and supervisor must be submitted for approval by the Undergraduate Coordinator of the Centre normally by 31 May of the previous academic year, or three months prior to commencing the course.

Prerequisite: A CGPA of 3.0, JGE221Y1/JIE222Y1, completion of at least 14 FCE, and enrolment in a Centre for Environment program

Exclusion: INI491Y1/492HI/493HI

**Division of the Environment: the Division of the Environment, and its programs, have been amalgamated into the new Centre for Environment (see above)**

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**Equity Studies: see New College**

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**Estonian: See Slavic Languages and Literatures**

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**Ethics, Society & Law: see Trinity College**

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The European Studies Program is designed to develop an interdisciplinary expertise on modern Europe. Students in the Program can acquire a working fluency in one of the following languages (in addition to English) of the European Union: Croatian, Czech, Estonian, Finnish, French, German, Hungarian, Italian, Macedonian, Polish, Portuguese, Russian, Serbian, Spanish, or Ukrainian. Language instruction emphasizes written and oral communication. To ensure that graduates in European Studies 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.

## European Studies Program

This is a limited enrolment program open only to those who earn a mark of at least 70% in one of the required first-year language courses (for the major) or in a first-year history or political science course (for the minor) and who also successfully complete at least 4 full courses in first year. Visit the European Studies Program web site for updated information about requirements, course offerings, and events: [www.utoronto.ca/esp](http://www.utoronto.ca/esp).

## European Studies (Arts program)

Consult Dr. E. S. Klein, Room 325N, Munk Centre for International Studies (416-946-8962) for general program requirements.

### Major program:

(7 full courses or their equivalent, including at least two 300-series courses. The language requirement consists of three full credits in a single language at a progressive level of difficulty.)

NOTE: Some of the courses listed below may have prerequisites; some may be offered in alternate years. The list reflects information available at the time of printing. Consult the Program Advisor for up-to-date information.

First Year:

One of the following: EST 100Y1; FIN 100Y1; FSL 100H1 and 102H1/121Y1; GER 100Y1/GER101H/200Y1; HUN 100Y1; ITA 100Y1/101Y1/102Y1/142Y1/152Y1; PRT 100Y1/110Y1/220Y1; SLA 100Y1, SLA 106Y1, SLA 108Y1, SLA 109Y1, SLA 205Y1, SLA 207Y1, SLA 237Y1; SPA 100Y1/220Y1

Second Year:

1. EUR 200Y1
2. One full course equivalent from: EST 200Y1; FIN 200Y1; FSL 221Y1; GER 200Y1/300Y1/370H1; HUN 200Y1; ITA 250Y1/251Y1/252Y1/253Y1; PRT 220Y1/320Y1; SLA 206Y1, SLA 208Y1, SLA 209Y1, SLA 220Y1, SLA 305Y1, SLA 307Y1, SLA 316Y1; SPA 220Y1/320Y1

Third Year:

1. POL 207Y1/324Y1/359Y1
2. One full course equivalent from: EST 300Y1; FIN 300H1; FSL 331Y1/341Y1/366H1; GER 300Y1/370H1/400Y1/470H1; HUN 310Y1; ITA 343H1, 344H1, 354H1, 355H1; PRT 320Y1/420Y1; SLA 306Y1, SLA 308Y1, SLA 320Y1, SLA 327H1, SLA 326Y1; SPA 320Y1/323H1/420H1

Second, Third or Fourth Year:

Two full course equivalents from: ANT 446Y1; ECO 201Y1,

230Y1, 303Y1, 342Y1, 452H1; ENG 202Y1, 329H1; EST 400Y1; FCS 195H1, 290H1, 291H1, 292H1, 297H1, 310Y1, 331H1, 390H1, 391H1, 392H1, 395H1, 490H1, 497H1; FIN 230H1, FIN 235H1 240H1, 250H1, 260H1, 310H1, FIN 330H1, FIN 340H1, FIN 350H1, FIN 410H1, FIN 415H1; FRE 320Y1, 322Y1, 324Y1, 326Y1, 359H1, 360H1, 364Y1, 365H1, 367H1, 368H1, 449H1; FSL 431Y1, 442H1, 443H1, 461Y1; GGR 339H1, 344H1, 361H1; GER 150H1, 204H1, 205H1, 232H1, GER 260Y1, 305H1, 310H1, 324H1, 325H1, 327H1, 331H1, 334H1, 335H1, 351H1, 354Y0, 355Y0, 360H1, 362H1, 353Y, 364H1, 410H1, 422H1, 430H1, 462H1; HIS 208Y1, 220Y1, 232Y1, 241H1, 242H1, 245Y1, 251Y1, 302H1, 310Y1, 317H1, 325H1, 330H1, 331H1, 334Y1, 335H1, 337Y1, 338Y1, 339Y1, 341Y1, 344Y1, 349H1, 351Y1, 353Y1, 354Y1, 355H1, 357Y1, 388H1, 401H1, 407H1, 414H1, 415H1, 416H1, 418H1, 420H1, 421H1, 422H1, 429Y1, 436H1, 442Y1, 444H1, 445H1, 449Y1, 451H1, 453H1, 454H1, 455H1, 458Y1, 459H1, 460H1, 461H1, 477H1, 483H1, 488H1, 492Y1; HUN 320Y1, 335H1, 345H1, 351H1, 355H1, 356H1, 440H1, 450H1, 451H1, 455H1; INI 382H1, 462H1; ITA 210Y1, 240Y1, 245Y1, 301H1, 310H1, 326H1, 340Y1, 341H1, 346H1, 347H1, 358Y0, 359Y0, 381H1, 405H1, 410H1, 415H1, 421H1, 441H1, 455H1, 491H1, 492H1; JEF 100Y1; JHP 304Y1, 435Y1, 454Y1; JPD 439Y1; PHL 210Y1, 217H1, 265H1, 310H1, 311H1, 312H1, 315H1, 316H1, 317H1, 320H1, 321H1, 322H1, 326H1, 338H1, 388H1; POL 200Y1, 317Y1, 320Y1, 321H1, 324Y1, 344H1, 354H1, 359Y1, 366Y1, 405Y1, 414H1, 415H1, 422Y1, 440Y1, 452Y1, 453Y1, 462Y1; PRT 250H1; SLA 205H1, 215H1, 216Y1, 225H1, 226H1, 405Y1, 406Y1, 414H1, 416Y1, 424Y1, 425Y1, 434Y1, 445H1, 465H1, 475H1; SOC 203Y1, 341Y1, 350Y1; SPA 250H1, 341H1, 345H1, 435H1.

### Minor program in European Union Studies:

(4 full courses or their equivalent, including at least one 300/400 full-course equivalent)

1. EUR 200Y1
2. POL 207Y1/POL 324Y1/POL 359Y1
3. Two full credits or their equivalent in eligible elective courses (see European Studies Major above)

## European Studies Courses

See page 33 for Key to Course Descriptions.

### EUR200Y1 Europe: Nation-State to Supranational Union 52L, 26T

An analysis of the development of European political regimes since 1789. 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.

This is a Humanities or Social Science course

## Given by Members of the Department of Slavic Languages and Literatures

### Faculty

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#### Professor Emeritus

G. Bisztray, MA, Ph D

#### Professor

B. Vähämäki, MA, Ph Lic, Ph D

#### Visiting Professor

J. Kenyeres, MA, Ph D

The Finno-Ugrians are a diverse group of peoples related by an ancient common linguistic heritage distinct from that of the Indo-Europeans who surround them. Of the approximately 25 million Finno-Ugrians, the best known are the Estonians and Finns on the Eastern Baltic Littoral and the Hungarians in the Carpathian Basin. But they also include the Sámis (Lapps) in the northern Fenno-Scandian and Kola Peninsulas, the Erzas, Moksas, Maris, Udmurts, and Komis of the northern woodland zone of European Russia and the Khantys and Mansis of Western Siberia. Distantly related to the Finno-Ugrians are the various Samoyed peoples of Siberia, the Nenets, Enets, Nganassans and Selkups.

Finno-Ugric Studies at the University of Toronto is devoted to the languages, literatures and cultures of the three main groups, the Estonians, Finns and Hungarians. These areas are of interest in themselves but also because of their role in shaping the histories and cultures of their respective geographic space. Because of their centuries-long association with the Slavic peoples, in particular the Russians, Finno-Ugric Studies can be of value to students of Slavic studies. The language courses offered by the three Finno-Ugric programs will be of interest to students of general linguistics who desire to acquire knowledge of a non-Indo-European language.

Undergraduate Secretary:

Professor Joseph Schallert, 121 St. Joseph Street, Room 419,  
joseph.schallert@utoronto.ca, 416-926-1300, ext. 3246.

#### Estonian Studies

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.

#### Finnish Studies

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 work of such outstanding figures as Jean Sibelius, Aki Kaurismäki, Alvar Aalto, and Eiel 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.

#### Hungarian Studies

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 a vast sea of Indo-European speakers.

Preserving their national identity by keeping their unique language alive has been a major concern for Hungarians ever since they settled in the Carpathian Basin over a thousand years ago. Yet far from secluding themselves, they have actively engaged in European history and politics and thereby have shaped their country into a highly cultured and, at times, quite powerful and influential nation. Many Hungarians settled abroad and contributed to the civilizations of their adopted countries. Those who achieved fame in recent decades include Bartók, Moholy-Nagy, Ormandy, Szentgyörgyi, Szilárd, and Vasarely.

Hungarian studies at the University of Toronto are concerned with the language, literature, and culture of Hungary and with the international role of the country, including the particular problem of Hungarian immigration to Canada.

## Estonian, Finnish and Hungarian Programs

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Enrolment in the Estonian, Finnish, or Hungarian program requires the completion of four courses; no minimum GPA required.

### Estonian Studies (Arts program)

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#### Minor program:

(4 full courses or their equivalent, including at least one at the 300+ level)

Four full course equivalents from EST 100YI, 200YI, 210HI, 300YI, 400YI, 420YI; FIN 220HI

### Finnish Studies (Arts program)

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Consult Department of Slavic Languages and Literatures.

#### Major program:

(6 full courses or their equivalent)

First Year:

FIN 100YI

Higher Years:

1. FIN 200YI, 300HI
2. Three full course equivalents from the following: FIN 230HI, 235HI, 240HI, 250HI, 260HI, 305HI I, 310HI, 320HI, 330HI, 340HI, 350HI, 410HI, 415HI, 420YI, 430HI

#### Minor program:

(4 full courses or their equivalent, including at least one at the 300+ level)

Four full course equivalents from FIN

### Hungarian Studies (Arts program)

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Consult Department of Slavic Languages and Literatures.

#### Major program:

(6 full courses or their equivalent)

First Year:

HUN 100YI

Higher Years:

1. HUN 200YI, 310YI, 320YI
2. Two courses from: HIS 453HI; HUN 335HI, 345HI, 351HI, 355HI, 356HI, 440YI, 450HI, 451HI, 455HI; SLA 414HI

#### Minor program:

(4 full courses or their equivalent, including at least one at the 300+ level)

Four courses from: HUN 100YI, 200YI, 310YI, 320YI, 335HI, 345HI, 351HI, 355HI, 440YI, 450HI, 451HI, 455HI; HIS 453HI

## Estonian, Finnish and Hungarian Courses

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See page 33 for Key to Course Descriptions

For Distribution Requirement purposes, all EST, FIN and HUN courses are classified as HUMANITIES courses.

### Estonian Courses

Note

The Department reserves the right to assign students to courses appropriate to their level of competence in Estonian.

#### EST100YI Elementary Estonian 130P

The basics of Estonian: elementary phonology, morphology, and syntax. Emphasis on reading and speaking as well as writing skills. (Offered in alternate years)

Exclusion: Native Speakers

#### EST200YI Intermediate Estonian 104P

Continued emphasis on basic language skills, on acquisition of both active and passive vocabulary. (Offered in alternate years)

Prerequisite: EST100Y or permission of instructor

#### EST210HI Introduction to Baltic Folklore 26L

A comparative survey of oral traditions of peoples on the eastern shore of the Baltic Sea (Finns, Carelians, Estonians, Livonians, Latvians) and their impact on these national cultures (e.g. Kalevala, Kalevipoeg, Lacplesis). No knowledge of Finnic or Baltic language required.

#### EST300YI Advanced Estonian 78P

Advanced grammar and stylistics through study of a variety of texts; problems of composition; translation; oral and written practice. (Offered in alternate years)

Prerequisite: EST200Y or permission of instructor

#### EST400YI Estonian Literature from 1700 26L, 26S

A survey of the major writers and literary periods in Estonian literature. From Käsü 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: EST300Y

#### EST420YI Independent Study TBA

A reading and research project of significant depth in a major topic in Estonian language, literature or culture approved and supervised by an instructor.

Prerequisite: EST300Y/400Y; permission of instructor

#### EST421HI Independent Study TBA

A reading and research project of significant depth in a major topic in Estonian language, literature or culture approved and supervised by an instructor.

Prerequisite: Permission of instructor

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### Finnish Courses

Note

The Department reserves the right to assign students to courses appropriate to their level of competence in Finnish.

#### FIN100YI Elementary Finnish 104P

An introductory language course for students with no knowledge of Finnish. The acquisition of a basic vocabulary and

# Finno-Ugric Studies

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of an understanding of elementary structural features through practice in comprehension, speaking, reading and writing. (Offered in alternate years)

## **FIN200YI Intermediate Finnish 104P**

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. (Offered in alternate years)

Prerequisite: FIN100Y or permission of instructor

## **FIN220HI Introduction to Finnish Linguistics 13L, 13S**

A survey of the linguistic structures of the Finno-Ugric languages including Estonian, Finnish and Hungarian with special emphasis on Finnish. Focus is to gain insights into workings of non-Indo-European languages. No prior knowledge of Finno-Ugric languages or linguistics required.

## **FIN230HI Finnish Culture 1800 to Present (formerly FIN210YI) 13L, 13P**

FIN230H offers an introduction to Finnish society, history and culture 1800 to present. The course examines the rise of Finnish nationalism in the 1800s, its main manifestations, particularly the developments of its cultural, educational and social institutions, its economic structures, its demographics, as well as the nation's bilingual status.

Exclusion: FIN210YI

## **FIN235HI Finnish Literature 1800 to Present (formerly FIN210YI) 13L, 13P**

FIN235H surveys the major works in Finnish literature 1800 to present by examining its role in the implementation of the agenda of Finnish nationalism in the 19th and the 20th century. The major genres and periods in Finnish literature are studied.

Exclusion: FIN210YI

Recommended preparation: FIN230HI

## **FIN240HI Masterpieces of Scandinavian Literature 13L, 13S**

Introduction to the greatest authors of Scandinavian literature and their greatest works, particularly August Strinberg, Henrik Ibsen, H.C. Andersen, Knut Hamsun, Selma Lagerlöf, 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

## **FIN250HI Finnish Cinema 26S, 13P**

Development of Finnish cinema from its parochial beginnings to its international recognition. The great pastoral tradition; the war memories (Laine, Kassila, Parikka); socio-political engagement of the 60s (Donner, Jarva), the paucity of the 70s (Mollberg); the universal outsider themes of the 80s (Aki and Mika Kaurismäki). Readings and subtitles in English. (Offered in alternate years)

## **FIN260HI Scandinavian Cinema 26S, 13P**

Major developments of cinema in Scandinavia in the 20th century with concentration on the major film makers of Denmark, Sweden, and Finland. Screening of films by directors such as Victor Sjöström, Mauritz Stiller, Alfi Sjöberg, Ingmar Bergman, August Bille, Carl Th. Dreyer, Gabriel Axel, Nils Gæupe, Aki and Mika Kaurismäki. (Offered in alternate years)

## **FIN300HI Advanced Finnish (formerly FIN300YI) 26S, 13P**

Advanced Finnish provides a continuation of FIN200Y Intermediate Finnish. Prerequisite: FIN200YI or permission of instructor

Exclusion: FIN300YI

## **FIN305HI Finnish Morphology and Syntax 13L, 13S**

Finnish Morphology and Syntax is designed present the Finnish morphological system and the principles of Finnish syntax to students interested in general linguistics, morphology, syntax, or Finnish linguistics. The Finnish case system, the verb conjugation system and phenomena such as consonant gradation, vowel harmony and clitics will be explored.

Prerequisite: Introduction to linguistics or FIN100Y

## **FIN310HI Finnish Folklore: The Kalevala 13L, 13S**

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)

## **FIN320HI The Finnish Canadian Immigrant Experience 13L, 13S**

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)

## **FIN330HI Regional Origins of Finnish Culture 13L, 13S**

The course traces the construction of a unified Finnish culture over the centuries from subcultures and values which ultimately have their definitions in the regional diversity of the area now called Finland. It focuses on the main divisions into western and eastern Finland, but also explores the Swedish and the Sami (Lappish) heritage in the context of old cultural regions. The sources used are cultural history texts as well as Finnish literature.

## **FIN340HI Finland-Swedish Literature and Culture 13L, 13S**

An examination of the major Finland-Swedish authors (Rune Coerg, Tgrelicks, Sodergran, Tove Jansson) and the linguistic reality of Finland as it has changed over time. The distinctly Finland-Swedish culture is explored, analysed and assessed in its Finnish and Scandinavian context. Cultural giants are studied (Sibelius, etc.).

## **FIN350HI The Finnish Short Story 26S**

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, Sillanpää, Haanpää, Meri, Hyry, Salama, Mukka, Liksom, Huldén, and others. Readings in English. (Offered in alternate years)

## **FIN410HI Finnish Literature 1700-1900 (in Finnish) (formerly FIN410YI) 26S**

A chronological study of the development of Finnish literature, emphasizing outstanding writers, significant movements and trends, the emergence and transformations of the major genres

and their relationship to Finnish folklore and to the national awakening. Readings in Finnish. (Offered as needed)

Prerequisite: Permission of instructor

Exclusion: FIN410Y1

Recommended preparation: FIN300Y

**FIN415HI Finnish Literature in the 20th Century 26S**

This course examines the main literary works and genres of 20th Century Finland, especially Jotuni, Sillanpää, Haanpää, Meri, Manner, Linna, Tuuri and a sample of contemporary writers. The readings are in Finnish.

Prerequisite: Reading ability in Finnish

Exclusion: FIN410Y1

Recommended preparation: FIN410HI

**FIN420Y1 Independent Study TBA**

A reading and research project

Prerequisite: Permission of instructor

**FIN430Y1 Independent Study TBA**

This course offers students, primarily Finnish Studies majors and minors, an opportunity to design together with the instructor an individualized course of study in Finnish literature or language. Registration requires the permission of the appropriate instructor and the Department of Slavic Languages and Literatures.

Prerequisite: Permission of instructor

Recommended preparation: At least two years of university studies

## Hungarian Courses

Note

The Department reserves the right to assign students to courses appropriate to their level of competence in Hungarian.

**HUN100Y1 Elementary Hungarian 130P**

The basic features and logic of the language. Development of conversational skills and the reading of easy texts. Open only to students with little or no knowledge of Hungarian.

**HUN200Y1 Intermediate Hungarian 104P**

Review of descriptive grammar; studies in syntax; vocabulary building; intensive oral practice; composition; reading and translation.

Prerequisite: Permission of instructor

**HUN310Y1 Advanced Hungarian 52S**

A synchronic and diachronic survey of the Hungarian language. Conceptualized summary of grammar, syntax, and stylistics; studies in the genesis and historical stages of the language. Brief consideration of living dialects, the basics of poetics; selected problems in translation and language teaching. Readings in Hungarian.

**HUN320Y1 A Survey of Hungarian Literature 52S**

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.

**HUN335HI Urban vs. Rural: Cities and Country in Hungarian Literature and Culture 13L, 13S**

This survey of Hungarian literature and culture uses the dichotomy of rural and urban traditions to explore the history of Hungarian literature and art, including poetry, short stories, novels, and folklore. Readings in English (also available in Hungarian).

**HUN345HI The Dynamic of Hungarian Culture, Ethnography, and Folklore 13L, 13S**

Explore the cultural traditions, historical processes, myths, and figures that have shaped and redefined Hungarian civilization and national identity. Theoretical and practical classes on ethnogenesis, anthropology, and folklore. Readings in English (also available in Hungarian).

**HUN351HI Conformism and Subversion: Hungarian Cinema 39S**

Developments until the sixties; auteurism of the sixties (Jancsó, Szabó); documentarism of the seventies (Mészáros); new trends since the eighties. Relations with the European cinema; contributions to the international film world and to film theory.

**HUN355HI From Totalitarianism to Democracy: History of the Past Decades and Reflections of a Changing Society in Hungarian Culture 13L, 13S**

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.

**HUN356HI Hungary, 1956–2006: The Past 50 Years 26S**

On the 50th anniversary of the 1956 Hungarian Revolution, this course investigates the cultural and literary history of Hungary in the past five decades: how art and literature existed in a totalitarian regime, how they changed in the years of "goulash communism" and later, and how they manifest political, sociological, and historical understandings of national and European identity and the place of Hungary within a dynamic Europe. Knowledge of Hungarian not required.

**HUN440HI The Roots of Modernism: Hungarian 20th Century Fiction 26S**

Continuity and change in form and content studied from the perspective of the native literary and social tradition and in relation to the evolution of modern European fiction; analogies with other genres and arts; survey of criticism. No knowledge of Hungarian required.

**HUN450HI Hungary On-Stage: A History of Hungarian Drama in Social Context 26S**

Hungarian theatre prior to the 19th century; birth of the national drama (Katona, Madách); populism and cosmopolitanism; post-war tendencies (Hubay, Orkény, Sütő). Hungarian drama in the European context; the theatre as a social institution. No knowledge of Hungarian required.

# Finno-Ugric Studies

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**HUN451HI Three Hungarian Film Directors 39S**

The course scrutinizes the oeuvre of Miklós Jancsó, Márta Mészáros, and István Szabó, tracing changes in their style and outlook.

Prerequisite: At least 10 full course credits with; at least one of these in film

**HUN455HI Hungary and Europe: Cultural Adaptation in the Late 20th Century 13L, 13S**

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).

**HUN497YI Independent Study (Hungarian)**

Translation course concentrating on Hungarian prose translation

Prerequisite: Permission of Department

**HUN498HI Independent Study (Hungarian)**

Translation course concentrating on Hungarian prose translation.

Prerequisite: Permission of Department



## Forest Conservation is a collaborative program of the Faculty of Arts & Science and the Faculty of Forestry

### Faculty

#### Professor and Dean of the Faculty

C.T. Smith, BA, MS, Ph D

#### Professors

T.J. Blake, MF, Ph D  
P.A. Cooper, M Sc, Ph D  
D.L. Martell, MA Sc, Ph D  
M. Sain, MTech, Ph D  
S.M. Smith, M Sc, Ph D  
V.R. Timmer, M Sc F, Ph D

#### Associate Professors

T.J. Carleton, M Sc, Ph D  
S. Kant, MA, Ph D  
J.R. Malcolm, M Sc, Ph D  
S.C. Thomas, BA, Ph D

#### Assistant Professors

J. Caspersen, BA, Ph D  
S. Laaksonen-Craig, M Sc, Ph D  
N. Yan, BA Sc, Ph D

#### Senior Lecturer

A. Kenney, M Sc, Ph D

Forests have traditionally been managed primarily as sources of timber and revenue. However, there is increasing recognition of their immense cultural, social and environmental role, focused particularly by recent United Nations conferences in Rio De Janeiro and Johannesburg. Increasingly the focus of forest management has shifted to include biodiversity maintenance, ecological sustainability, and the protection of wildlife and their habitats. Canadians, as custodians of 10% of the remaining global forest cover, and 25% of the undisturbed frontier forest, have both the option and the responsibility to provide global leadership in forest conservation and sustainable forest management. Forest conservation programs prepare students for this critically important role by combining traditional ecological (biology, zoology) and physical (soil science, hydrology) sciences with social sciences. Forest conservationists increasingly focus 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.

Canada is not only a key player in global forest conservation, but is also more economically dependant on forests than any other major developed country. Responsible stewardship of our forests and the changing focus from industrial timber production to forest conservation has greatly expanded the range of expertise necessary. 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. Graduates from forest conservation programs can

also pursue graduate programs in a wide range of disciplines, including forest conservation, forestry, environmental sciences and international development.

Students may take a specialist 4-year degree leading to an H.B.A. in Forest Conservation or an H.B.Sc. 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 specialist programs provide a grounding in forest conservation with emphasis on breadth as well as research depth, and can particularly meet the needs of individuals who are considering graduate level education in forestry (M.F.C., M.Sc.F. or Ph.D.).

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, botany, zoology, chemistry, urban studies or architecture.

A minor in Forest Conservation Science in the science stream and a minor in Forest Conservation in the arts stream are also available. Students should consider combining these programs with a minor in other related disciplines.

Undergraduate Co-ordinator:

Professor Vic Timmer, Room 3035, Earth Sciences Centre (416-978-6774)

Undergraduate Administrator:

Ms. A. Veneziano, Room 1016E, Earth Sciences Centre (416-978-5480)

## Forest Conservation Programs

### Forest Conservation Science (Science program)

Enrolment in the specialist program is open to students who have completed four first-year courses with a minimum GPA of 2.3. Enrolment in the major and minor programs is open to students who have completed four first-year courses with a minimum GPA of 2.0.

#### Specialist program:

(13.5 full courses or their equivalent, including at least four 300+series courses and 2.5 400-series courses; 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:

BIO150Y1; Two Science FCEs (GGR100Y1; CHM138H1, 139H1 recommended)

Second Year:

1. ENV 234Y1; FOR 200H1, 201H1
2. One FCE from: ECO 220Y1, 227Y1; GGR 270H1; JBS 229H1/STA 221H1; STA 220H1
3. One FCE from: BIO 260H1; BIO 251Y1; EES C20H1 (University of Toronto Scarborough); GGR 205H1, 206H1, 272H1, 273H1; PHL 273H1; ENV236Y1; JGE221Y/JIE222Y1

Third Year:

# Forest Conservation

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1. FOR301HI, 305HI. At least One FCE from FOR 300HI, 302HI, 303HI, 306HI, 307HI; EEB321HI
2. 0.5 FCE from: EEB 307HI, 319HI, 323HI, 328HI, 341; CSB 340HI
3. At least 1.5 FCE from: BIO 302HI, 303HI, 306HI, 308HI, 324HI, 465HI; GGR303HI, 305HI, 310HI; EEB324YI, 360HI, 361HI, 386HI, 388HI, 389HI

Fourth Year:

1. FOR 400YI, 401HI
2. One FCE from: FOR 403HI, 404HI, 405HI, 412HI, 413HI, 416HI, 417HI; GGR403HI; ENV 442HI, 447HI; JFG 470HI, 475HI

## Major program:

(8 full courses or their equivalent, including at least 2.0 300+series courses and one 400-series course; 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:

BIO150YI; Two Science FCEs (GGR100YI; CHM 138HI, 139HI recommended)

Second Year:

FOR 200HI, 201HI; One FCE from ENV236YI, 234YI; JGE 221Y/JIE222YI

Third Year:

FOR305HI; 1.5 FCE from: FOR 300HI, 301HI, 302HI, 303HI, 306HI, 307HI; EEB321HI

Fourth Year:

FOR 400YI

## Minor Program:

(4 full courses or their equivalent, including at least 1.0 300+series course and one 400-series course)

First Year: BIO150YI/ GGR100YI/ENV200YI

Second Year: FOR200HI, 201HI

Third Year: One FCE from: FOR300HI, 301HI, 302HI, 303HI, 305HI, 306HI, 307HI

Fourth Year: FOR400YI

## Forest Conservation (Arts program)

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Enrolment in this program is open to students who have completed four first-year courses with a minimum GPA of 2.3. Enrolment in the major and minor programs is open to students who have completed four first-year courses with a minimum GPA of 2.0.

## Specialist program:

(12 full courses or their equivalent, including at least 3.5 300+series courses and 2.5 400-series courses; 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:

BIO 150YI; GGR107YI or One Social Science FCE

Second Year:

1. ENV 234YI; FOR 200HI, 201HI
2. One FCE from: ECO 220YI, 227YI; GGR 270HI; JBS 229HI/STA 221HI; STA 220HI/250HI/255HI
3. One FCE from: ABS 201YI; ANT 204YI; JGE 221Y/JIE222YI; PHL 273HI

Third Year:

1. FOR301HI, 305HI; At least One FCE from: FOR 300HI, 302HI, 303HI, 306HI, 307HI; EEB 321HI
2. At least One FCE from: ANT 365YI; GGR 331HI, 393HI; HIS 318YI; ENV 320YI, 321YI, 332HI; UNI 302HI, 315YI, 317YI; JAG321HI

Fourth Year:

1. FOR 400YI, 401HI
2. One FCE from: ANT 450HI, 453HI; FOR 403HI, 412HI, 416HI, 417HI; ENV 410HI, 421HI, 422HI, 423HI, 440YI, 442HI, 447HI, 494HI; JFG 470HI, 475HI

## Major program

(8 full courses or their equivalent, including at least 2.0 300+series courses and one 400-series course; 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:

BIO 150YI; GGR 107YI or One Social Science FCE

Second Year:

1. ENV 234YI; FOR 200HI, 201HI
2. One FCE from: ABS 201YI; ANT 204YI; ECO 220YI, 227YI; GGR 233YI, 270HI; JBS 229HI/STA 221HI; JGE221Y; PHL 273HI; STA 220HI/250HI/255HI

Third Year:

FOR301HI, 305HI. One FCE from: FOR 300HI, 302HI, 303HI, 306HI; EEB 321HI

Fourth Year:

FOR 400YI

## Minor program:

(4 full courses or their equivalent)

First Year: One of ANT100YI/ECO100YI/ENV200YI/ GGR100YI/107YI

Higher Years: 3 FCEs from (FOR200HI, 201HI, 301HI, 302HI, 303HI, 305HI, 306HI, 307HI, 400YI, 401HI)

## Forest Conservation Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27) FOR courses are classified as either Science or Social Science courses; please check individual course listings.

### FOR200HI Conservation of Canada's Forests 26L

Development of forest management philosophy in Canadian and temperate forest regions; the sustained-yield paradigm and concepts of sustainability. Techniques for more sustainable forest management: structural retention; viable park and reserve networks; old growth; value-added and non-traditional forest products.

Recommended preparation: BIO150YI/GGR100YI

This is a Science course

### FOR201HI Conservation of Tropical and Subtropical Forests 26L

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; biodiversity and non-timber forest products; the fuelwood crisis; fire management and large carnivore conservation; ecological, economic and social perspectives.

Recommended preparation: BIO150YI/GGR100YI

# Forest Conservation

This is a Science course

**FOR300HI Forest Products in Sustainable Forestry 26L, 26P**

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: FOR200HI, 201HI

This is a Science course

**FOR301HI Field Methods in Forest Conservation TBA**

A practical introduction to the field methods used by forest conservationists in central Ontario. This course is a 10-day field camp conducted in the Haliburton Highlands, between approximately September 1 – 10. 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 \$400 to cover the costs of their transportation and accommodation. Students must contact the Faculty to register – we strongly recommend that you do so by the end of May, but later registrations will be considered if class size permits.

Recommended preparation: ENV234YI; FOR200HI, 201HI, GGR205HI

This is a Science course

**FOR302HI Societal Values and Forest Management 26L**

The course will provide diverse perspectives about forests, such as Aboriginal perspective, ecosystem services and human health, climate change and carbon sequestration, and forest management systems, such as community-based forest management and adaptive management systems; and will develop and understanding of the need of integrative approach to address the social, cultural, economic, and scientific issues associated with forest management.

Recommended preparation: FOR200HI, 201HI

This is a Social Science course

**FOR303HI Human Dimensions of Global Forests 26L**

Global forest resources; global and regional production, consumption and trade of timber and non-timber products; relationships between societies and forests; international forest policy; economic value of forests; forests and development.

Recommended preparation: FOR200HI, 201HI

This is a Social Science course

**FOR305HI Biology of Trees and Forests 26L, 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: FOR200HI/201HI, BIO150YI/ENV234YI

This is a Science course.

**FOR306HI Tropical Forest Ecology and Conservation Field Course 26P**

This course will provide practical experience in tropical forest ecology and conservation, the impact of human use and natural disturbance on forest ecosystem processes and biodiversity, and the development of effective forest conservation strategies. The 10 day course spanning Reading Week will be field-based in Malaysia, Panama, Costa Rica, Dominica, Bolivia or Brazil. A set of 5 weekly 2-hour lectures will be associated with the course.

Prerequisite: FOR201HI, FOR301HI or FOR305HI

This is a Science course.

**FOR307HI Forest Insect Ecology & Management 26L, 26P**

Insect identification and ecology, biodiversity and conservation, insect-tree interaction, exotic introductions, biological control, pesticide use, and integrated pest management. (Offered in alternate years.)

Recommended preparation: FOR301HI or FOR305HI, EEB360HI or EEB361HI

This is a Science course

**FOR400YI Advanced Seminar in Forest Conservation 52S**

Examination of current and emerging critical issues affecting sustainable management and conservation of global forests. Seminars led by students, faculty and visiting speakers.

Prerequisite: At least 2 of FOR300HI, 301HI, 302HI, 303HI, 305HI, 306HI, 307HI

This is classified as BOTH a Science and a Social Science course

**FOR401HI Research Paper/Thesis in Forest Conservation TBA**

Individual in-depth student research projects on significant forest conservation projects, based on field and/or laboratory research, or literature survey.

Prerequisite: At least 2 of FOR300HI, 301HI, 302HI, 303HI, 305HI, 306HI, 307HI (minimum of 15 FCEs)

This is classified as BOTH a Science and a Social Science course

**FOR403HI Directed Readings 26T**

Provides opportunities for students to carry out individual in-depth study of current forest conservation issues, under the direction of a faculty member.

Prerequisite: At least 2 of FOR300HI, 301HI, 302HI, 303HI, 305HI, 306HI 307HI, (minimum of 15 FCEs)

This is classified as BOTH a Science and a Social Science course

**FOR404HI Soil Fertility & Tree Nutrition 26L, 26P**

Determining physical, chemical, and biological properties of soils. Soil fertility testing and plant chemical analysis. Mineral nutrition of trees and seedlings, diagnosis and interpretation of soil and foliar analyses. Prescription of soil amendments for intensive forest management. (Offered in alternate years)

Prerequisite: GGR205HI (minimum of 15 FCEs)

Recommended preparation: GGR307HI

This is a Science course

**FOR405HI Forest Products & Processing 26L, 12P**

Processing of wood into commercial products including wood adhesion and composites manufacturing; specifications and testing; sawmilling; wood drying; wood deterioration and protection; life cycle analysis of wood-based products.

Prerequisite: FOR300HI (minimum of 15 FCEs)

This is a Science course

# Forest Conservation

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## **FOR412HI Ecology, Management and Conservation of Tropical Forests 12L, 14S**

The nature of the tropical biome; climate; ecology; carbon sequestration potential. Emerging critical ecological and social issues related to utilization, management and conservation of tropical forests.

This is a Science course

## **FOR413HI Wildlife Ecology & Conservation 26L**

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: BIO319HI/321HI/323HI/324HI/ENV234YI/

FOR200HI/201HI/EEB 22HI (minimum of 15 FCEs)

This is a Science course

## **FOR416HI Urban Forest Conservation 26L**

Current research and practice in the conservation and enhancement of urban forests. Reviews the role of trees and woodlands in providing environmental and socio-economic benefits to urban and peri-urban residents. Examines approaches to the characterization of urban forest ecosystems, and their planning and management to contribute to sustainable communities.

Prerequisite: FOR200HI, 201HI

This is a Science course

## **FOR417HI Ecological Principles of Agroforestry 26L**

This course introduces students to the roles of trees and forests in agricultural land-use systems primarily in the third world. It deals primarily with the biological and management aspects of agroforestry, within the socio-economic constraints of the developing world. The sustainability of particular agroforestry systems will be a theme throughout.

This is a Science course

## **FOR418HI Urban Forest Conservation Field Camp 45L 15P**

The course consists of ten days examining urban forestry issues in the GTA, southern and eastern Ontario, Quebec and northern New York State. Topics include: urban forest inventories, nursery production, arboricultural techniques, urban woodland management, urban forest health, urban forest administration, urban dendrology, and urban forestry research.

Prerequisite: FOR200HI/FOR201HI/permission of the instructor.

This is a Science course.

## **FOR419HI Forest Fire Behaviour and Management 26L, 26P**

Understanding forest fire activity is important for predicting fire's impact on forests and the wildland-urban interface, as well as the impacts of climate change. Basic principles of fire occurrence and behaviour are explored. Considerable emphasis is placed on application of these models to real fire management problems.

Prerequisite: ECO220YI/ECO227YI/GGR270HI/PSY201HI/

SOC300YI/STA220HI/STA250HI/STA248HI/STA261HI

This is a Science course.

## **JFG470HI Forest Management 26L**

Application of operational research and information technology to develop decision support systems for forestland management planning. Basic principles of mathematical programming,

simulation and decision analysis, and their application to planning for forest conservation and sustainable development, policy analysis and other land management planning problems. Prerequisite: One course in quantitative methods or linear algebra

Recommended preparation: ECO220YI/227YI/GGR270YI/

MAT133YI/223HI

This is a Science course

## **JFG475HI Emergency Response Systems Planning 26L, 26T**

Use of operational research and information technology to develop mathematical models and decision support systems to design and evaluate the performance of emergency response systems. Forest fire management systems are used to illustrate the basic principles of emergency response system planning that can also be applied to urban fire, police and ambulance services.

Prerequisite: One course in quantitative methods or calculus

Recommended preparation: ECO220YI/227YI/GGR270YI/

MAT133YI/135YI/137YI

This is a Science course

## Faculty

### University Professor Emeritus

B.T. Fitch, BA, D 3e C (T)

### Professors Emeriti

C. Bertrand-Jennings, LèsL, Ph D (University of Toronto Scarborough)

D.E. Bouchard, AM, Ph D (V)

P.A.R. Bouissac, LèsL, DES, D Phl (V)

N. Boursier, DES, CAPES, D 3e C (U)

F.I. Case, MA D 3e (N)

J.G. Chidaine, AM, Ph D (V)

C. Cloutier-Wojciechowska, LèsL, DES, MA, M Ph, DPS, DUP (University of Toronto Mississauga)

P. Collet, AM, Ph D (SM)

J.A. Dainard, MA, Ph D (U)

Rev. R.B. Donovan, MA, Ph D (SM)

L.E. Doucette, BA, Ph D (University of Toronto Scarborough)

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P. Fitting, MA, Ph D (N)

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C.M. Grisé, MA, Ph D(SM)

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E.F. James, MA, D 3e C (U)

R.W. Jeanes, BA, D 3e C (V)

E.M. Kushner, MA, Ph D (V)

E. Lehouck, AGR ESS, D Phl (U)

M.M. Léon, LèsL, DES, D 3e C (V)

P.R.A. Léon, LèsL, D 3e C, Dèsl, D Honoris Causa (N)

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A. Rosenberg, MA, Ph D (V)

J. Savona, LèsL, DES, CAPES, D 3e C (T)

H.G. Schogt, MA, Ph D (U)

B.-Z. Shek, MA, Ph D (U)

D.W. Smith, BA, Ph D (V)

R.A. Taylor, MA, Ph D (V)

C.D.E. Tolton, AM, Ph D (I, V)

J.A. Walker, MA, Ph D (U)

H.H. Weinberg, MA, Ph D (University of Toronto Mississauga)

T.R. Wooldridge, BA, D 3e C (T)

### Associate Professor and Acting Chair of the Department

E. Nikiema, MA, PhD (University of Toronto Mississauga)

### Associate Chair

D. Issa-Sayegh, MA, D 3e C (SM)

### Professors

D. Clandfield, MA, D 3e C (N)

D. de Kerckhove, MA, Ph D (SM)

J. LeBlanc, MA, Ph D (V)

R.J. Le Huenen, LèsL, DES, D Phl (V)

P. Martin, IRAL BR, D 3e C, D Sc A (SM)

W.A. Oliver, MA, D 3e C (T)

M. O'Neill-Karch, MA (VWV)

J. Paterson, MA, Ph D (I)

P.J.G.O. Perron, BA, D 3e C (U)

Y. Roberge, MA, Ph D (SM)

### Associate Professors

P. M. Bhatt, MA, Ph.D (SM)

A.-M. Brousseau, MA, PhD (SM)

H.S.F. Collins, MA, Ph D (V)

A. Cozea, MA, Ph D (V)

C. Elkabas, MA, Ph D (University of Toronto Mississauga)

Havercroft, MA, Ph D (V)

D. Kullmann, MA, PhD (SM)

M. Lord, MA, Ph D (University of Toronto Mississauga)

P. Michelucci, MA, Ph D (University of Toronto Mississauga)

S. Mittler, MA, Ph D (University of Toronto Scarborough)

A. Motsch, MA, Ph D (V)

J. Ndayiragije, MA, Ph D (University of Toronto Scarborough)

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Y. Portebois, MA, Ph D (SM)

A. Tcheuyap, MA, Ph D

### Assistant Professors

S. Benharrech, MA, PhD (University of Toronto Mississauga)

L. Cortade, MA, PhD

A. Glinoyer, MA, PhD

M. Pirvulescu, MA, Ph D (University of Toronto Mississauga)

P. Riendeau, MA, Ph D (University of Toronto Scarborough)

D. Speirs, MA, Ph D (SM)

J. Steele, MA, Ph D (SM)

### Senior Tutor

M. Charlebois, MA, Ph D (U)

### Senior Lecturers

C. Evans, MA, Ph D (University of Toronto Mississauga)

D. Issa-Sayegh, MA, D 3e C (SM)

K. McCrindle, MA, Ph D (University of Toronto Scarborough)

F. Mugnier-Manfredi, MA, Ph D (University of Toronto Scarborough)

G. Paray-Clarke, MA, Ph D (SM)

### Lecturers

C. Beauquis, MA, PhD (University of Toronto Scarborough)

French studies in the University of Toronto provide varied and flexible approaches to one of the world's major international languages and the diversity of cultures expressed in it.

The courses listed here fall into six main sequences: Literature, Linguistics, French as a Second Language, French Culture,

# French

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Translation and Second Language Learning. Through modular programming, students enjoy the freedom to concentrate or diversify their interests in these areas. 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.

Literature (FRE): 200-level courses introduce students to literary analysis and present Québécois and French literature in their cultural and historical contexts. 300-level courses encompass the full range of major works of French and Québécois literature. 400-level courses raise questions about notions of literary tradition and mainstream methods of study: the scope of literature is stretched further back or ahead in time, further away in space from traditional centres (France and Québec) and away from dominant sensibilities (to include women's voices and non-traditional modes of writing); and connections are made to other disciplines. The actual content of most 400-level courses varies considerably according to the instructor. Students should consult the Department of French Undergraduate Brochure (which is also available on-line at [www.chass.utoronto.ca/french/under](http://www.chass.utoronto.ca/french/under)) for content specific to a given year.

Linguistics (FRE): A 100-level course introduces students to the study of grammatical concepts. 200-level courses initiate students into analysis of contemporary French and into the history of its development. 300-level courses break the discipline of linguistic analysis into its chief component parts. 400-level courses extend the study of the French language back in time or out from the idealized standard form; and connections are made to other disciplines (including second language acquisition).

Translation (FRE): Courses on French and English translation at the 300/400-level may be used in a Minor program that may be added to any other Minor, Major or Specialist program. Such courses are, however, not limited to students taking this program. Certification for this program should not be viewed as the equivalent to a professional diploma in translation but may stand students in good stead should they seek admission to such a program following graduation.

French as a Second Language (FSL): The FSL program is designed to accommodate the widest possible range of previous learning, special needs, and particular interests of students. Emphasis is given to both written and spoken language; at higher levels, half-courses allow for specialized study of one or the other. A placement test (mandatory) will allow students to work at the most suitable level to develop their skills of reading, writing, listening and speaking French. The Department reserves the right to place students in the language course appropriate to their level of language skill, based on the results of a placement test. Since 100, 200, 300 and 400-level FSL courses correspond to levels of competence in French, a student may be recommended to enroll in a course at a higher level than his/her year of study. The placement test is mandatory for all students who register in an FRE or FSL course for the first time. It is available online at [www.lang.utoronto.ca/placement/french](http://www.lang.utoronto.ca/placement/french) and can be taken on any computer properly equipped to manage sound files. Students who do not have access to such a computer should write to [french.placement@utoronto.ca](mailto:french.placement@utoronto.ca) and make an appointment to take the test at the Multimedia Centre. The test must be taken prior to registration or at the latest by the end of the first week of classes in order to insure

enrolment in the appropriate course. For students in Major and Specialist French programs, emphasis is on precise academic writing and speech approximating as closely as possible that of native speakers. For students not in Major and Specialist French programs, emphasis is on listening and reading skills in varying social and cultural contexts and on the acquisition of vocabulary.

French Cultural Studies (FCS): Courses on French and Francophone culture, taught in English, may be used in a Minor program that may be added to any other Minor, Major or Specialist program. These courses may also be used to fulfil breadth requirements.

Second Language Learning: A Major program in Second Language Learning may be combined with a similar Major program in Italian to produce a Combined Specialist program. The core course for this program is JFI 225Y1 which instructs students in the methodology of second-language learning and will be of particular interest to those planning a career in teaching. It will be taught alternately by instructors from the Departments of French and Italian Studies.

Study Elsewhere: To be entitled to participate in the Department's Third Year Study Elsewhere Program, a student must satisfy the following requirements: overall average of at least 70% in courses completed in second year; and an average of 70% in at least two French courses (FRE) required in a Major or Specialist program. Information on these programs and on the Second Language Summer Program is available on-line at [www.chass.utoronto.ca/french/under/else.htm](http://www.chass.utoronto.ca/french/under/else.htm). For further counselling on these programs, contact the Study Elsewhere Advisor at 416-926-2310 or [french.elsewhere@utoronto.ca](mailto:french.elsewhere@utoronto.ca).

Exclusions and prerequisites: Students must conform to all requirements stated in the exclusions and prerequisites to register in a course. Students who do not have the co- or 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 Department of French Undergraduate Brochure, available at the Department, contains more detailed information about all the courses and programs listed below. It is also available in an electronic form, which is regularly updated, at [www.chass.utoronto.ca/french/under](http://www.chass.utoronto.ca/french/under).

Counselling:  
50 St. Joseph St., Rm. 226 (416-926-2333), email: [french.undergraduate@utoronto.ca](mailto:french.undergraduate@utoronto.ca)

Enquiries:  
50 St. Joseph St., Rm. 210 (416-926-2302), email: [french.secretary@utoronto.ca](mailto:french.secretary@utoronto.ca); website: [www.chass.utoronto.ca/french](http://www.chass.utoronto.ca/french)

## French Programs

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Enrolment in all French programs requires the completion of four courses. No minimum GPA is required.

Note:

FRE 172H1 provides useful basics for further studies in Linguistics and Second Language Learning, and for students who feel they would benefit from a better understanding of the grammatical structure of the language.

## **French Language and Literature (Arts program)**

### **Specialist program:**

(11 full courses or their equivalent)

1. FSL221Y1 (Students exempted from this course may replace it with FRE 250Y1); FSL 341Y1, FSL 442H1, FSL 443H1 (Students exempted from FSL 341Y may replace it with any FRE course. Students with 77% in FSL 341Y may replace FSL 442H, 443H with a 300+ series FRE course.
2. FRE 240Y1
3. FRE 272Y1/273Y1
4. FRE 440H – Literary Theory.
5. 5.5 additional FRE literature courses including the following: at least 0.5 course in each group A, B, C and D, and another 1.0 at the 400 level

### **Major program:**

(8 full courses or their equivalent)

1. FSL 221Y1. (Students exempted from this course may replace it with FRE 250Y1); FSL 341Y1 (Students exempted from this course may replace it with any FRE course)
2. FRE 240Y1
3. FRE 272Y1/273Y1
4. 4 additional FRE literature courses including the following: at least 0.5 course in each group A, B, C and D, and another 1.0 course at the 400 level.

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Note: COURSES IN EACH GROUP ARE OFFERED IN ALTERNATE YEARS AS FOLLOWS:

Courses offered in Odd Years: (2007-08)

A – FRE 320H (17th Century); B - FRE 364H (19th Century); C - FRE 314H (Quebec); D - FRE 321H (Middle Ages)

Courses offered in Even Years (2008-09)

A – FRE 322H (18th Century); B – FRE 326H (20th Century); C – FRE 332H (Francophonie); D – FRE 319H (Renaissance)

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## **French Language and French Linguistics (Arts programs)**

### **Specialist program:**

(10 full courses or their equivalent)

1. FSL 221Y1. Students exempted from this course may replace it with FRE 172H1 and an additional FRE Linguistics half-course.
2. FRE 272Y1
3. FRE 210Y1/240Y1
4. FSL 341Y1, 442H1, 443H1. Students exempted from FSL 341Y1 may replace it with any FRE course. Students with 77% in FSL 341Y1 may replace FSL 442H1, 443H1 with a 300+ series FRE course.
5. FRE 376H1, 378H1
6. Four additional FRE Linguistics courses. At least two of these courses must be at the 300/400-level, including one at the 400-level. FRE 375Y1 may be substituted for one of these four courses.

### **Major program:**

(7 full courses or their equivalent)

1. FSL 221Y1. Students exempted from this course may replace it with FRE 172H1 and an additional FRE Linguistics half-course.
2. FRE 272Y1
3. FRE 210Y1/240Y1
4. FSL 341Y1. Students exempted from this course may replace it with any FRE course.
5. FRE 376H1, 378H1
6. Two additional FRE Linguistics courses. At least one of these courses must be at the 300/400-level, including one half-course at the 400-level. FRE 375Y1 may be substituted for one of these two courses.

## **Second Language Learning (French) (Arts Program)**

### **Major program:**

(8 full courses or their equivalent including at least 2 at the 300+ level)

1. FSL 221Y1. Students exempted from this course may replace it with higher-level FSL courses of their choice.
2. JFI 225Y1, FRE 272Y1, FSL 277Y1, 341Y1
3. FRE 210Y1/240Y1
4. Two additional FRE courses among the following: FRE 375Y1/384H1/385H1/473H1

## **French as a Second Language (Arts Program)**

### **Minor program:**

(4 full courses or their equivalent)

1. FSL 221Y1. Students exempted from this course may replace it with higher-level FSL courses of their choice.
2. One 300-level FSL course
3. One 400-level FSL course
4. One other FSL course or FRE 375Y1 or any 200+-level FRE course, except FRE 480Y1. (FSL 121Y1 may be included if taken before FSL 221Y1).

## **French Translation (Arts Program)**

### **Minor program:**

(4 full courses or their equivalent)

1. FRE 375Y1
2. FRE 480Y1, 481Y1
3. An additional FRE course at the 200+ level

## **French Studies (Arts Program)**

### **Minor program:**

(4 full courses or their equivalent)

1. FSL 221Y1
2. Three FRE courses at the 200+ level including one at the 300/400-level (FSL 121Y1 may be included if taken before FSL 221Y1)

## **French Cultural Studies (Arts Program)**

### **Minor program:**

(4 full courses or their equivalent)

Any four FCS full course equivalents including at least one course at the 300/400-level.

Note: For students meeting prerequisites set by other departments/programs, up to 1.5 courses from the following list may be substituted for FCS courses: FAH

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245HI, 345HI, 346HI, 445HI, 446HI, 447HI; FRE literature courses; HIS 314YI, 387HI, 388HI, 457HI; JEF 100YI; JFV 323HI; INI 385YI, 386HI; SMC 228YI

**For other programs in French, see also: Drama and French; Modern Languages and Literatures; Linguistics and Languages.**

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## French Courses

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See "Guide to Programs & Courses" section for Key to Course Descriptions.

For Distribution Requirement purposes all FCS, FRE, and FSL courses are classified as HUMANITIES courses.

Note: STUDENTS ENROLLED SIMULTANEOUSLY IN TWO OR MORE FRENCH PROGRAMS ARE ALLOWED TO DOUBLE-COUNT ONLY ONE COURSE TOWARDS THEIR FRENCH PROGRAMS.

**Courses Taught in English (see also all FCS courses below)**

### **HUM199HI/YI First Year Seminars 52S**

Undergraduate seminars that focus on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. May serve as a distribution requirement course; see the First Year Handbook for details.

### **INI 214YI Film Theory 26L, 52P, 26T** See Innis College

### **INI384HI Critical Writing on Film** See Innis College

### **INI386HI Québec Cinema** See Innis College

### **JEF100YI The Western Tradition 78S**

An introduction to literature through major works of the Western literary tradition. What constitutes a literary "classic"? How have the great concerns of the Western tradition - human nature, its place in society, its mythmaking, its destiny - been represented in literature? These and other questions are examined by reference to 11-12 works, from ancient times to the twentieth century, by such authors as Homer, Sophocles, Ovid, Virgil, Dante, Shakespeare, Cervantes, Molière, Austen, Dostoevski, Kafka, Camus, Beckett and Márquez. (A joint course offered by the Departments of English and French; see also JEF 100YI in the English program listings.)

### **JFI225YI Second Language Learning** See Second Language Learning Courses at the end of the Department of French listing.

### **JFL477HI Issues in French and Linguistics I** See French Linguistics Courses

### **JFL478HI Issues in French and Linguistics II** See French Linguistics Courses

### **JFV323HI Semotics and Literature** See French Literature Courses

### **SMC228YI Books and Readers** See St. Michael's College

### **UNI202HI Aspects of Québec Culture** See University College

### **VIC 300HI Special Topics: Literary Studies** See Victoria College

### **VIC 301HI Special Topics: Literary Studies** See Victoria College

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NOTE: FCS, JFI, JFL and JFV courses are taught in English with reading and written assignments in English. No knowledge of French is required. **However, students can count these courses towards a program in French (Major or Specialist) if they submit all written work and tests in French. These students must, during the first week of class, inform the instructor of their intent to do so.**

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### **FCS: French Cultural Studies Courses**

FCS courses are taught in English with written and reading assignments also in English. Some half-courses at the 200/300/400-level have variable contents and may not be offered every year. Please consult the Department website ([www.chass.utoronto.ca/french/under](http://www.chass.utoronto.ca/french/under)) or the Department of French Undergraduate brochure for more details.

### **FCS195HI French Culture from Napoléon to Astérix 26S**

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.

### **FCS 290HI Special Topics in French Cultural Studies I: Pleasures of Versailles: Music in the Grand Century of France 26S**

A survey of the rich musical heritage of France between 1650 and 1740, focusing on the composers, performers and instruments in the court of Louis XIV. Intended especially for non-musicians who are passionate about music and wish to explore French cultural history through one of its most dynamic and celebrated facets. Focus on in-class listening, including live performances on historical instruments.

### **FCS 291HI Special Topics in French Cultural Studies I: The Art and Culture of the Networked Society 26S**

The concept of the Networked Society, with a historical perspective on the development of networking technologies, emphasizing their social and cultural consequences. The actions and the role of artists and cultural activists in various countries. Illustrated with films and other documents, the various dimensions of the Francophone digital culture in and out of Canada, including Africa and Asia.

### **FCS 292HI Special Topics in French Cultural Studies I: Sex, Love, Desire, etc. 26S**

This course will explore the themes of love, sex and desire in French literature through close reading and interpretative analysis of novels from the eighteenth to the twentieth century. A comparative approach using various examples taken from literary texts and film adaptations will explore the concept of love and its many definitions.

### **FCS297HI Comic Books and French Culture 26S**

An examination of the historical, social and cultural status of French comic books ("bandes dessinées" or "BDs"), based on



English translations of *Astérix*, *Tintin* and other contemporary works. Analysis of thematic and narrative structures compared with traditional genres (folktales, myths, plays, novels). (Not offered in 2007-2008).

**FCS298HI French Culture and Asia 26S**

From the arrival, in 17th century, of magnificent porcelain from the East to the borrowings of contemporary fashion designers, French culture has been exposed to Asian influences which have become part of the national fabric. This course explores some of these manifestations in literature, film and the arts.

**FCS310YI French Cinema 26L, 52P, 26S**

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: At least 5 course credits in any subject

Recommended preparation: INI 115Y1

**FCS331HI Cinema and Literature in France 26S**

Film adaptations of plays and fiction from the origins of cinema to the present time.

Prerequisite: At least 5 course credits in any subject

**FCS369Y0 The Culture of Touraine 52S**  
(formerly FCS399Y0)

Various aspects of Culture in the region of Tours, e.g. novels by Balzac; Renaissance architecture and gardens as motifs in art, literature, cinema, music or advertising; from Tours to Québec; or Anne Hébert's *Touraine*. (Offered in Tours only during the summer)

Prerequisite: At least 5 course credits in any subject

Exclusion: FCS399Y0

**FCS 390HI Special Topics in French Cultural 26S**  
**Studies II: Cultural Studies in France:**  
**Foucault and after**

Introduction to the French tradition of cultural studies through a survey of some of the great French thinkers on culture and history (Foucault, de Certeau, Barthes, Baudrillard, Bourdieu, Derrida, Lyotard, Metz, etc.). The historical and philosophical debates that define the Humanities today.

Prerequisite: At least 5 courses in any subject.

**FCS 391HI Special Topics in French Cultural 26S**  
**Studies II: Americanization and**  
**Americanness in France and**  
**Quebecois Literature**

This course will focus on the social, cultural and historical elements which have contributed to a certain mythical conception of the American Dream. An introduction to the concept of Americanization and Americanness as it has been represented in French and Quebecois literary texts and films produced during the 20th Century.

Prerequisite: At least 5 courses in any subject.

**FCS 392HI Special Topics in French Cultural 26S**  
**Studies II: African Cinema**

This course will focus on the analysis of film as a social and ideological practice in Africa. It will provide an interdisciplinary look at the development of African cinema from its inception in the 1960's to the present.

Prerequisite: At least 5 courses in any subject.

**FCS395HI Sensuality and the French 26S**

An investigation of the French reputation for the systematic indulgence of all the senses, from the growth of sensuality-

based industries and services to the discussion of works of high art and popular culture. Also focussing on elements of gender definition and exoticism within the cult of sensuality.

Prerequisite: At least 5 course credits in any subject

**FCS490HI/ Special Topics in French 26S**  
**491HI/ Cultural Studies III**  
**492H**

In depth study within narrowly focussed topics. (Not offered in 2007-2008).

Prerequisite: At least 10 course credits in any subject

**FCS497HI Contemporary Feminisms in 26S**  
**France and Québec**

Various forms of recent feminist thought, theory, and artistic practice, from the 1970s, focussing on the current situation, characterized by plurality and heterogeneity, and the concern with the intersection of gender, ethnicity and class. (Not offered in 2007-2008).

Prerequisite: At least 10 course credits in any subject

**FRE: French Literature Courses**

Some half-courses at the 300/400-level have variable contents and may not be offered every year. Please consult the Department website ([www.chass.utoronto.ca/french/under](http://www.chass.utoronto.ca/french/under)) or the Department of French Undergraduate brochure for more details.

**FRE210YI Introduction to Québec 78S**  
**Literature and Culture**

A study of aspects of Québec culture (art, cinema, language, literature and music) and their role in the evolution of a distinct society. This survey course familiarizes students with the socio-historical context and way of life of the Québécois in order to better understand and appreciate Québec literature.

Co- or prerequisite: FSL161Y1 (with minimum 77%)/181Y1/221Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

**FRE240YI Introduction to Literary Analysis 78S**

Techniques of literary criticism and analysis, based on a detailed study of selected novels, drama, and poetry from the 17th century to the present.

Co- or prerequisite: FSL161Y1 (with minimum 77%)/181Y1/221Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

**FRE250YI Literary History in Context 52S**

The evolution and major trends of French literature from the Middle Ages to modern times set against their historical background and studied through representative texts, selected both for their historical importance and their relevance to modern readers - novels, plays, poetry, short stories.

Prerequisite: FSL161Y1 (with minimum 77%)/181Y1/221Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

**FRE299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See Section on "Research Opportunity Program" for details.

**FRE304HI Women and Literature I: 26S**  
**Women Writers**

An analysis of selected texts by women writers, emphasizing particular themes and textual strategies used to represent the

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female subject, her relationship to language, her reality and world view. (Not offered in 2007-2008; offered in alternate years)

Prerequisite: FRE 240Y1

**FRE305HI Women and Literature II: Women Writers of the Twentieth Century 26S**

This course will examine French prose fiction by women written in the latter quarter of the twentieth century, during which an unprecedented number of texts by women writers were published. Texts representing different women's issues in contemporary society will be analyzed.

Prerequisite: FRE 240Y1

**FRE 308HI From Manuscript to the Printed Word 26S**

With a view to understand the process that transforms "texts" into "books", this course will contrast the French and Anglo-Saxon schools of book history and material bibliography, and analyze the evolution of various technical innovations and their impact on the emergence of mass culture since the 1500s. (Not offered in 2007-2008).

Prerequisite: FRE 240Y1

**FRE 309HI Reading, Writing and Publishing in Nineteenth-Century France 26S**

This course will investigate the social history of the context and the construction of the literary text in nineteenth-century France: how and why one writes, reads and/or publishes will be the focus of this course. The history of reading and publishing, as well as the history of the 19th century press will be examined. (Not offered in 2007-2008).

Prerequisite: FRE 240Y1

**FRE 311HI Advanced topics in Quebec Literature I: Story Telling with Words and Images (formerly FRE410HI) 26S**

The relationship between literary texts and images in Québécois literature is an important narrative strategy used by numerous writers to "tell stories". The focus will be on the use of photography, illustrations, paintings and cinematographic images by a number of 20th century Québécois authors.

Prerequisite: FRE 240Y1 or FRE 210Y1

Exclusion: FRE 410H/411H

**FRE 313HI Advanced topics in Quebec Literature II: Diaries of Women Writers (formerly FRE411HI) 26S**

This course aims to investigate the textual strategies which support the construction of autobiographical subjects in the diaries of certain well-known contemporary French and Québécois writers. (Not offered in 2007-2008; offered in alternate years)

Prerequisite: FRE 240Y1 or FRE 210Y1

Exclusion: FRE 410H/411H

**FRE314HI From Modernism to Postmodernism: Contemporary Québec Literature 26S**

Québec postmodern literature speaks of vitality, liberating forces, and creativity. This course explores the textual forms and themes that challenge tradition and authority in contemporary writing.

Prerequisite: FRE 240Y1 or FRE 210Y1

**FRE319HI Literature of the Renaissance (formerly FRE419HI) 26S**

Rabelais' carnivalesque vision of the world, Ronsard's worship of Beauty, the cruel and bloody tragedy of Garnier, Montaigne's exploration of the self. A study of selected writers of the 16th century, an age of crucial epistemological shifts and of exploration by poets, artists, and humanists. (Not offered in 2007-2008; offered in alternate years).

Prerequisite: FRE 240Y1

Exclusion: FRE 419HI

**FRE320HI The 17th Century: The Rise of Classicism (formerly FRE320Y1) 52S**

Essential works of literature from the "Grand Siècle," including court poetry, plays by Corneille, Molière and Racine and some of the earliest narratives written for and by women, explored within the social framework of Europe's most highly refined cultural period.

Prerequisite: FRE 240Y1

Exclusion: FRE 320Y1

**FRE321HI Ardour and Armour in Medieval France (formerly FRE420HI) 26S**

Religious fervour, war, chivalry, romance and ribald humour are just some of the themes found in selected texts from the French Middle Ages; readings in modern translations with appropriate reference to the original language.

Prerequisite: FRE 240Y1

Exclusion: FRE 420HI

**FRE322HI The 18th Century: The Age of Enlightenment (formerly FRE322Y1) 52S**

At the forefront of the present cultural and political organization of the West, 18th century France defined individual and collective subjectivities (individualism, gender roles, democracy). This course explores these issues in their original context through the work of authors such as Rousseau, Voltaire, Sade, Laclos, Graffigny, and Beaumarchais. (Not offered in 2007-2008; offered in alternate years).

Prerequisite: FRE 240Y1

Exclusion: FRE 322Y1

**JFV323HI Semiotics and Literature I 26S**

The study of readings from major French literary semioticians will be combined with the practical application of theory to the analysis of selected literary texts. This course is taught in English. (Not offered in 2007-2008; offered in alternate years).

Prerequisite: At least 5 course credits in any subject.

Recommended preparation: FRE240Y1/VIC120Y1

**FRE324HI The 19th Century: 19th Century France (formerly FRE324Y1) 26S**

The course will cover the period from the French Revolution to the Dreyfus Affair, that is from the romantic movement to the naturalist and decadent movements. Combining socio-intellectual history, the study of literary movements and their major authors, and the analysis of literary forms and genres, the course will examine the fundamental changes which took place in the literary imagination and in its expressions throughout the century.

Prerequisite: FRE 240Y1

Exclusion: FRE 324Y1

- FRE325HI The 18th Century: The Book in the French Enlightenment 26S**  
 This course will provide an overview on the history of the book in France in the 18th Century in order to allow for a closer inquiry into the publishing adventure of the Encyclopédie of Diderot and D'Alembert, arguably the biggest publication undertaking of its time.  
 Prerequisite: FRE 240Y1
- FRE326HI The 20th Century: From Surrealism to Post-modernism and Beyond (formerly FRE326Y1) 52S**  
 Characterized by experimentation and by the crisis of representation, 20th century French literature has undergone numerous transformations in form, content, and generic boundaries. This course studies these literary movements, trends, and transgressions in poetry, prose, and theatre. (Not offered in 2007-2008; offered in alternate years).  
 Prerequisite: FRE 240Y1  
 Exclusion: FRE 326Y1
- FRE332HI Francophone Literature I 26S**  
 An introduction to francophone literature through different approaches - textual, ideological, historical. Students will be introduced to the works of francophone writers. (Not offered in 2007-2008; offered in alternate years).  
 Prerequisite: FRE 240Y1
- FRE 340HI Literature and Society 26S**  
 Lectures and discussions in this course will focus on the conceptualizations of the multifaceted relationship between literature and society, both from an external perspective (study of the cultural fields, of the institutions, of the social networks, of the sociology of edition and reading) and an internal perspective (the inscriptions of the social world in text and in discourse). (Not offered in 2007-2008).  
 Prerequisite: FRE 240Y1
- FRE364HI The 19th Century: The Golden Age of the Novel (formerly FRE364Y1) 26S**  
 The ways in which such writers as Balzac, Stendhal, Flaubert, Maupassant, and Zola developed the techniques of the novel while exploring such themes as ambition, alienation, and class struggle.  
 Prerequisite: FRE 240Y1  
 Exclusion: FRE 364Y1
- FRE 370Y0 Language Study**  
 Offered in Nantes only.  
 Prerequisite: Any 200-series FRE/FSL course.
- FRE 371Y0 Medieval French Literature**  
 Offered in Nantes only.  
 Prerequisite: FRE 240Y1
- FRE 372Y0 French Theatre of the 19th and 20th Centuries**  
 Offered in Nantes only.  
 Prerequisite: FRE 240Y1
- FRE 373Y0 French Thought of the 17th and 18th Centuries**  
 Offered in Nantes only  
 Prerequisite: FRE 240Y1
- FRE 374Y0 French Civilization from the 18th Century to Today**  
 Offered in Nantes only.  
 Prerequisite: FRE 240Y1
- FRE398H0/ 399Y0 Independent Experiential Study Project**  
 An instructor-supervised group project in an off-campus setting. See Section on "Independent Experiential Study Program" for details.
- FRE 412HI Francophone Cinema: French Cinema and Nation 26S**  
 The course is a survey of the representations of national identity in French cinema from its origins to the present. We will examine the stereotypes which foster the myth of "frenchness" (history, love, food, landscapes, etc).  
 Prerequisite: FRE 240Y1  
 Recommended preparation: one 300+ series FRE Literature course
- FRE431HI Francophone Literature II 26S**  
 Through different approaches - textual, ideological, historical, students will be introduced to the works of francophone writers. (Not offered in 2007-2008).  
 Prerequisite: FRE 240Y1  
 Recommended preparation: One 300+ series FRE Literature course
- FRE438HI Advanced Topics in French Studies I: Vision of the Orient in the Francophone Literature 26S**  
 In this course, we will seek to relate the representation of Oriental cultures in Francophone literature to social, political and economic factors. We will also survey changing attitudes among Francophone Oriental heritage.  
 Prerequisite: FRE 240Y1  
 Recommended preparation: One 300+ series FRE literature course
- FRE439HI Advanced Topics in French Studies II 26S**  
 An advanced seminar dedicated to specific issues of French 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. (Not offered in 2007-2008; offered in alternate years).  
 Prerequisite: Varies according to particular course offering; consult the Department website ([www.chass.utoronto.ca/french/under](http://www.chass.utoronto.ca/french/under)) or the Undergraduate brochure for exact prerequisites.
- FRE 441HI Aspects of Francophone World I: Le roman policier 26S**  
 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.  
 Prerequisite: FRE 240Y1  
 Recommended preparation: One 300+ series FRE Literature course.
- FRE 442HI Aspects of Francophone World II 26S**  
 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

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involving cinema, arts and music, each seminar reflects the professor's current research. (Not offered in 2007-2008; offered in alternate years).

Prerequisite: FRE 240Y1

Recommended preparation: One 300+ series FRE Literature course.

## **FRE 444HI Literary Theory 26S**

An introduction to literary theory through the study of particular theories underlying specific approaches to the literary text, problems central to any theory of literature or the writings of a given critic or theoretician.

Prerequisite: FRE 240Y1

Recommended preparation: One 300+ series FRE Literature course.

## **FRE449HI French Poetry 26S**

This course will stress specific trends in French poetry and will study the works of major poets in the context of a broader socio-cultural perspective. (Not offered in 2007-2008).

Prerequisite: FRE 240Y1

Recommended preparation: One 300+ series FRE Literature course.

## **FRE450HI The Sablé Centre Seminar in 19th Century French Studies I 26S**

This seminar is dedicated to specific issues of French literature and culture, in the context of research activities currently taking place at the Joseph Sablé Centre for 19th Century French Studies. Also listed in the offerings of the Graduate Department of French. (Not offered in 2007-2008; offered in alternate years).

Prerequisite: FRE240Y1, one 300+ series FRE Literature course

Recommended preparation: One additional 300+ series FRE Literature course

## **FRE451HI The Sablé Centre Seminar in 19th Century French Studies II: The Critical Edition: Principles & Practice 26S**

This seminar is dedicated to specific issues of French literature and culture, in the context of research activities currently taking place at the Joseph Sablé Centre for 19th Century French Studies. Also listed in the offerings of the Graduate Department of French.

Prerequisite: FRE240Y1, one 300+ series FRE Literature course

Recommended preparation: One additional 300+ series FRE Literature course

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## **French Linguistics Courses**

### **FRE172HI French Grammar, within Reason 39S**

An introduction to basic concepts of the grammar of French from an analytic point of view. This course is useful to anyone wishing to undertake a program in French Studies or wishing to improve their knowledge of French as a Second Language.

Prerequisite: FSL121Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

### **FRE272YI The Structure of Modern French: An Introduction 78S**

A descriptive study of contemporary French: phonetics and phonology, morphology, syntax, and semantics. Theoretical discussion in general linguistics.

Prerequisite: FSL161Y1(77%)/181Y1/221Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

### **FRE273YI General History of the French Language 52S**

The changes by which the Latin spoken in northern Gaul became today's French. Phonetic, morphological, syntactic and semantic evolution; regional, dialectal and social variations; the question of French in Canada; attitudes of writers, grammarians, and scholars; political and social history.

Prerequisite: FSL161Y1(77%)/181Y1/221Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

### **FRE376HI French Phonology and Phonetics 26S**

A study of the phonological system of modern French based on actual samples of speech taken from different regional varieties and socio-economic groups.

Prerequisite: FRE272Y1

### **FRE378HI French Syntax 26S**

A study of the distribution and relationships of the syntagmatic components of contemporary French. The sentential structure, including the principles of coordination, subordination and expansion. Theoretical approaches.

Prerequisite: FRE272Y1

### **FRE386HI French Semantics 26S**

Various approaches to the notion of meaning; its functioning at all levels of representation.

Prerequisite: FRE272Y1

### **FRE387HI French Morphology 26S**

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: FRE272Y1

### **FRE471HI Medieval French Language 26S**

Characteristic features of French phonology, grammar and vocabulary up to 1500; analysis of extracts from principal genres, periods and geographic areas. Also listed in the course offerings of the Graduate Department of French.

Prerequisite: FRE272Y1/273Y1

### **FRE 473HI The Acquisition of French 26S**

A study of the first and second language acquisition of French syntax, phonology and morphology.

Prerequisites: FRE 376HI, 378HI.

### **JFL477HI Issues in French and Linguistics I 26S**

An advanced seminar on issues of current theoretical relevance in second language phonetics and phonology, with special reference to English and French. In this course, we will examine the phonetic and phonological systems of non-native speakers in order to describe and explain the nature and sources of foreign accent.

Prerequisite: Any 300+ series LIN or FRE Linguistics course

### **JFL478HI Issues in French and Linguistics II 26S**

An advanced seminar on issues of current theoretical relevance in linguistics with special reference to French. This course is taught in English. (Not offered in 2007-2008; offered in alternate years).

Prerequisite: Any 300+ series LIN or FRE Linguistics course

**FRE479HI Sociolinguistics of French 26S**

The relationship between language use and social factors such as socio-economic status, types of situation 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: FRE272Y1

**FRE488HI Special Topics in Advanced Linguistics I: Linguistic foundations of second language pronunciation teaching 26S**

This course will examine the extent to which common pronunciation teaching methods are supported by experimental research on second language phonetics and phonology.

Prerequisite: FRE 376H

**FRE 489HI Special Topics in Advanced Linguistics II 26S**

An advanced seminar on theoretical and comparative approach to the study of various syntactic constructions in French, including especially the pronominal system. Treatment of dialect variation within the Romance continuum from a theoretical and empirical point of view. Also listed in the offerings of the graduate department of French. (Not offered in 2007-2008).

Prerequisite: Varies according to particular course offering; consult the Department website ([www.chass.utoronto.ca/french/under](http://www.chass.utoronto.ca/french/under)) or the Undergraduate brochure for exact prerequisites.

**French Translation Courses**

**FRE375YI Comparative Stylistics 52S**

A comparative study of the characteristics of French and English expression and how they pertain to the problems of translation.

Prerequisite: FSL281Y1/341Y1/any FRE 200-series course

**FRE480YI Translation: French to English 52S**

Intensive translation from French to English. Texts are drawn from diverse fields: literature, business, economics, politics, science, art, and advertising.

Prerequisite: FRE375Y1

**FRE481YI Translation: English to French 52S**

Intensive translation from English to French. Texts are drawn from diverse fields: literature, business, economics, politics, science, art and advertising.

Prerequisite: FRE375Y1

**Independent Study Courses**

**FRE490YI Senior Essay**

An independent research paper on either a literary or linguistic topic to be proposed by the student and supervised by an instructor, culminating in a major research paper.

Prerequisite: Permission of Department

**FRE491HI/ Independent Study 492HI**

A scholarly project supervised by a member of staff on a literary or linguistic topic of common interest including readings, discussions, and papers.

Prerequisite: Permission of Department

**French as a Second Language Courses (FSL)**

Note

The following is a guide for beginners in French.

1. No knowledge of French: FSL 100HI. Students enrolled in FSL 100HI, whose command of French raises doubt about their *bona fides* as beginners, will be asked to do the online placement test and may be moved to a higher level FSL course.

2. Very limited knowledge of French (Placement Test required): FSL 102HI

The Department reserves the right to place students in the language course appropriate to their level of language skills, based on the results of a placement test. Since 100, 200, 300 and 400-level FSL courses correspond to levels of competence in French, a student may be recommended to enroll in a course at a level higher than his/her year of study. The placement test is mandatory for all students who register in an FRE or FSL course for the first time. It is available online at [www.lang.utoronto.ca/placement/french](http://www.lang.utoronto.ca/placement/french) and can be taken on any computer properly equipped to manage sound files. Students who do not have access to such a computer should write to [french.placement@utoronto.ca](mailto:french.placement@utoronto.ca) and make an appointment to take the test at the Multimedia Centre. The test must be taken prior to registration and at the latest by the end of the first week of classes in order to insure enrolment in the appropriate course.

**FSL100HI French for Beginners 39L, 13P**

An intensive basic course in spoken and written French for students who have no knowledge of French: comprehension, speaking, reading, and writing.

Prerequisite: None

Exclusion: FSL101HI and higher.

**FSL102HI Introductory French 39L, 13P**

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 FSL121Y1.

Prerequisite: FSL100HI/FSL101HI or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

Exclusion: FSL 121Y1 and higher.

**FSL121YI French Language I 26L, 52T, 26P**

Written and spoken French, reinforcing oral/aural competence, reading comprehension, and writing skills.

Prerequisite: FSL 102HI, or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

Exclusion: FSL161Y1 and higher.

**FSL 221YI French Language II 52L, 26P (formerly FSL161YI/181YI)**

A 3-hour per week course open to all students. Required for all students wishing to complete a minor or major program in French. Emphasis is placed on the development of written and oral comprehension and expression through a variety of approaches to language learning. Required for all students wishing to complete a minor, major or specialist program in French.

Prerequisite: FSL 121Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

# French

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Exclusion: FSL 161Y1 and higher

**FSL277Y1 French Pronunciation 52L, 26P**

A study of the French sound system with the goal of improving students' pronunciation both in reading and everyday speech. Features to be examined include vowels, consonants, stress, liaison, the E caduc and intonation in both Canadian and European varieties. Theoretical concepts learned will be put into practice via structured exercises and weekly lab sessions. Prerequisite: FSL161Y1/181Y1/221Y1

Exclusion: FRE277Y1/Not open to fluent or native speakers of French, as determined by the results of the in-class Oral Proficiency Test to be taken during the first two weeks of classes.

**FSL331Y1 Practical French I 78S**  
(formerly FSL261Y1)

Emphasis is placed on both reading and listening comprehension, expression, both written and oral, and independent learning. Particularly intended for students who wish to maintain and improve their general knowledge of French without wishing to specialize.

Prerequisite: FSL161Y1/181Y1/221Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

Exclusion: FSL 261Y1/281Y1/341Y and higher

**FSL341Y1 Language Practice I: 78L, 26P**  
**Written and Oral French**  
(formerly FSL281Y1)

This course is designed for those who wish to improve their written expression with textual study and develop their oral and aural skills. The course is also designed for students who want to specialize or major in French studies.

Prerequisite: FSL161Y1(77%)/181Y1/221Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

Exclusion: FSL 261Y1/281Y1/331Y1 and higher

**FSL362Y1 La Francophonie 78S**

An advanced course in practical French (reading, writing, listening, speaking), aimed at broadening understanding of the range of cultures and societies of the francophone world, based in part on multimedia resources available in French, including those of the Internet.

Prerequisite: Any 200-series FSL course or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

Exclusion: FSL 461Y1 and higher

**FSL366HI Business French 39S**

A study of vocabulary, grammar and writing techniques involved in business situations, including cross-cultural transactions. Students may be introduced to business-oriented multimedia resources, including those of the Internet.

Prerequisite: Any 300-series FSL course or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

Exclusion: FSL 461Y1 and higher

**FSL431Y1 Practical French II 78S**  
(formerly FSL361Y1)

Emphasis is placed on both reading and listening comprehension, expression, both written and oral, and independent learning. Particularly intended for students who wish to maintain and improve their general knowledge of French without wishing to specialize.

Prerequisite: FSL 261Y1/281Y1/331Y1/341Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

Exclusion: FSL 381Y1 and higher; FSL361Y1

**FSL442HI Language Practice II: 39S**  
**Written French**  
(formerly FSL382HI)

This course is designed for students who want to consolidate the writing skills they already had acquired as students specializing in French Studies.

Prerequisite: FSL281Y1/341Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

Exclusion: FSL361Y1 and higher

**FSL443HI Language Practice II: 39S**  
**Oral French**  
(formerly FSL383HI)

This course is designed for students who want to consolidate the oral skills they already acquired as students specializing in French Studies.

Prerequisite: FSL281Y1/341Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

Exclusion: FSL 361Y1 and higher

**FSL461Y1 Practical French III 78S**

For students who wish to improve their general knowledge of French while specializing in other fields of study.

Prerequisite: FSL 431Y1/442HI, 443HI, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

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## Second Language Learning Courses

**JFI225Y1 Second Language Learning 52S**

A theoretical and practical consideration of the ways we learn a second language, with a historical overview and critical evaluation of the various methodologies that have been developed; the role of cultural studies in language learning; practical evaluation and development of syllabus, course and textbook materials. This course is taught in English.

Prerequisite: FSL161Y1(77%)/181Y1/221Y1 or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

**FRE384HI Teaching French as a 26S**  
**Second Language**

Since 1970 the term "communicative approach" has been used to refer to various ways of teaching and learning FSL. The aim of this course is to attempt to clarify the notions involved in the communicative approach and examine theoretical issues and pedagogical implications related to it.

Prerequisite: FRE272Y1

**FRE385HI Teaching Young People's 26S**  
**Literature**

Analysis of bibliographical tools available for the selection of literary materials for the FSL classroom. Study of representative works of interest to young people such as novels, detective stories, cartoons, with special emphasis on socio-cultural aspects. Critical analysis of various pedagogical approaches.

Prerequisite: FRE384HI

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## Faculty

### Professors Emeriti

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I. Burton, Ph D, FRSC  
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### Professor and Chair of the Department

J.R. Desloges, M Sc, Ph D

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M.S. Gertler, MCP, Ph D, FRSC  
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L.D.D. Harvey, M Sc, Ph D  
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A. Walks, MA, Ph D (University of Toronto Mississauga)  
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### Senior Lecturers

D. Boyes, M Sc, Ph D  
B. Murck, BA, Ph D (University of Toronto Mississauga)

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 resource base, culture and economy 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; regional economic planning; trade promotion; 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.

Students studying Geography may take either an H.B.A. or H.B.Sc., depending upon the aspects they wish to emphasize.

# Geography

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The Department offers several Specialist, Major and Minor Programs in Geography, cooperates in offering a combined program with Economics, shares with Ecology and Evolutionary Biology a program in Biogeography, and contributes courses to various departmental and college programs including American Studies; Anthropology; Archaeology; Canadian Studies and Peace and Conflict Studies; Equity Studies; Centre for Environment; Environmental Geosciences; and Urban Studies; Ethics, Society and Law and International Relations; and European Studies. Counselling and advice may be obtained from the Undergraduate Coordinator or the Undergraduate Counsellor.

Undergraduate Coordinator:

Professor D. Harvey, Sidney Smith Hall, Room 5032 (416-978-1588)

Student Counsellor:

S. Calanza, Sidney Smith Hall, Room 5050 (416-978-6455)

General Enquiries: 416-978-3375

## Geography Programs

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Enrolment in Minor, Major and Specialist programs sponsored by the Department of Geography requires the completion of four courses, including one of GGR 100Y1, 107Y1, or 124Y1. Entry requirements to all Specialist programs is a CGPA of 2.5. Entry requirements for all Major programs is a CGPA of 2.0 or 67% in 1.0 GGR FCE at the 100 or 200 level. Double majors in Geography must complete at least 13 different GGR/JAG/JFG/JGF/JGI/JUG/JEG credits (only 1.0 overlap). Students combining any of our Minor programs with a Specialist/Major program would normally be allowed to count only 1.5 credits (of the 4.0 courses in the Minor program) towards both programs.

Note

The general Geography major program is excluded from the arrangement whereby students in a four-year degree may take two major programs sponsored by the Department of Geography.

### Biogeography (Science program)

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#### Specialist program:

(13 full courses or their equivalent, including at least one 400-series course)

#### Entry Requirements:

Students must have a CGPA of 2.5

First Year:

1. BIO 150Y1; GGR 100Y1; CHM (138HI, 139HI)/151Y1/CSC (108HI, 148HI)
2. At least one of: JMB 170Y1/MAT 135Y1/137Y1/PHY 110Y1/138Y1/140Y1

Higher Years:

1. Two of: GGR 201HI, 203HI, 205HI, 206HI
2. BOT 251Y1/ZOO 252Y1; GGR 270HI/STA 220HI
3. ENV 234Y1/two of BIO 319HI, 321HI, 323HI, 324HI, 328HI
4. One full course equivalent from: BOT 300HI, 307HI, 310HI; ZOO 265Y1, 304HI, 309Y1, 361HI, 373HI, 384HI, 387HI, 389HI
5. GGR 305HI, 310HI
6. Two full course equivalents from BIO/BOT/ZOO at the 300+ level
7. 1.5 full course equivalent from GGR at the 300+ level

Note:

Of the 3.5 courses from BIO/BOT/ZOO and GGR, 1.0 must be at the 400-level

### Environment and Resource Management (Arts program)

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#### Specialist program:

(10 full courses or their equivalent, including at least one 400-series course)

#### Entry Requirements:

Students must have a CGPA of 2.5

First Year:

One course from Group A (GGR 107Y1 recommended)

Higher Years:

1. GGR 233Y1/JGE221Y1; GGR 270HI, 271HI, 272HI, 393HI
2. GGR 491Y1/two of GGR 409HI, 415HI, 418HI, 450HI, 451HI, 492HI, 498HI, 499HI
3. One additional half course from Group B
4. 4.5 courses from: GGR 220Y1, 256HI, 305HI, 307HI, 314HI, 331HI, 332HI, 333HI, 334HI, 335HI, 338HI, 342HI, 343HI, 390HI, 391HI, 409HI, 415HI, 418HI, 421HI, 439HI, 450HI, 451HI, 456HI/ENV236Y1/ENV440Y1/JUG 320HI/JAG 321HI. Of the 4.5 courses, additional options include: up to 1.5 courses from Group C; up to 1.0 courses from Group B/a second course from Group A.

#### Major program:

(7 full courses or their equivalent)

Note:

The general Geography major program is excluded from the arrangement whereby students in a four-year degree may take two major programs sponsored by the Department of Geography

#### Entry Requirements:

Students must have a CGPA of 2.0 or obtain 67% in 1.0 GGR FCE at the 100 or 200 level

First Year:

One course from Group A (GGR 107Y1 recommended)

Higher Years:

1. GGR 233Y1/JGE221Y1; GGR 270HI, 271HI
2. 4.0 courses from last option list in Specialist program above

### Geography (Arts program)

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#### Specialist program:

(10 full courses or their equivalent, including at least one 400-series course)

#### Entry Requirement:

Students must have a CGPA of 2.5

First Year:

One course from Group A

Higher Years:

1. GGR 270HI, 271HI, 272HI
2. GGR 491Y1/two of GGR 409HI, 413HI, 415HI, 418HI, 431HI, 439HI, 446HI, 450HI, 451HI, 452HI, 457HI, 458HI, 459HI, 492HI, 498HI, 499HI
3. One additional half course from Group B



4. 6.0 GGR/JAG/JFG/JGF/JGI/JUG/JGE/ENV236Y courses with no more than one additional course from Group A.

**Major program:**

(7 full courses or their equivalent)

Note:

The general Geography major program is excluded from the arrangement whereby students in a four-year degree may take two major programs sponsored by the Department of Geography.

**Entry Requirement:**

Students must have a CGPA of 2.0 or obtain 67% in 1.0 GGR FCE at the 100 or 200 level

First Year:

One course from Group A

Higher Years:

1. GGR 270HI, 271HI
2. 5.0 GGR/JAG/JFG/JGF/JGI/JUG/JGE/ENV236Y courses of which at least 3.0 must be at the 300-400 level, and with no more than one additional course from Group A

**Minor program:**

(4 full courses or their equivalent)

1. One course only from Group A
2. Three other higher level GGR/JAG/JFG/JGI/JUG/JGE/ENV236Y courses, including at least one 300/400-series course

**Geographic Information Systems (Arts program)**

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.

**Minor program:**

(4 full courses or their equivalent)

1. One course from Group A
2. GGR 270HI, 272HI, 273HI, 373HI
3. One half course from GGR462HI, 473HI
4. One of GGR337HI, 371HI, 413HI, 462HI, 473HI, JFG470HI, 475HI

**Geography and Economics - See Economics**

**Historical and Cultural Geography (Arts program)**

**Specialist program:**

(10 full courses or their equivalent, including at least one 400-series course)

**Entry Requirement:**

Students must have a CGPA of 2.5

First Year:

One course from Group A (GGR 107YI recommended)

Higher Years:

1. GGR 240HI, 270HI, 271HI, 272HI, GGR 391HI
2. GGR 491YI/two of GGR 421HI, 439HI, 457HI, 492HI, 499HI
3. One additional half course from Group B

4. 5.5 courses from: GGR 216HI, 239HI, 246HI, 249HI, 254HI, 336HI, 340HI, 342HI, 343HI, 344HI, 347HI, 348HI, 350HI, 360HI, 361HI, 362HI, 363HI, 364HI, 366HI, 368HI, 391HI, 421HI, 439HI; JUG 320HI; JAG 321HI. Of the 5.5 courses, additional options include up to 1.0 courses from Group B and a second course from Group A.

**Major program:**

(7 full courses or their equivalent)

Note:

The general Geography major program is excluded from the arrangement whereby students in a four-year degree may take two major programs sponsored by the Department of Geography

**Entry Requirement:**

Students must have a CGPA of 2.0 or obtain 67% in 1.0 GGR FCE at the 100 or 200 level

First Year:

One course from Group A (GGR 107YI recommended)

Higher Years:

1. GGR 240HI, 270HI, 271HI
2. 4.5 courses from last option list in Specialist program above

**Physical and Environmental Geography (Science program)**

**Specialist program:**

(12 full courses or their equivalent, including at least one 400-series course)

**Entry Requirement:**

Students must have a CGPA of 2.5

First Year:

1. One course from Group A (GGR 100YI strongly recommended)
2. MAT 135YI/137YI/PHY 110YI/138YI/140YI
3. One course from: BIO 150YI/CHM 137YI/(138HI, 139HI)/151YI

Higher Years:

4. Three of: GGR 201HI, 203HI, 205HI, 206HI
5. GGR 270HI, 272HI, GGR 390HI
6. GGR 491YI/two of GGR 403HI, 409HI, 413HI, 498HI
7. One additional half-course from Group B
8. 4.5 courses from: GGR 201HI, 203HI, 205HI, 206HI, 301HI, 302HI, 303HI, 305HI, 307HI, 310HI, 314HI, 330HI, 333HI, 337HI, 391HI, 403HI, 409HI, 413HI, 421HI, 490HI, 498HI/ENV236Y. Of the 4.5 courses, additional options include up to 1.0 courses from Group B.

**Major program:**

(7.5 full courses or their equivalent)

Note:

The general Geography major program is excluded from the arrangement whereby students in a four-year degree may take two major programs sponsored by the Department of Geography

**Entry Requirement:**

Students must have a CGPA of 2.0 or 67% in 1.0 GGR FCE at the 100 or 200 level

# Geography

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## First Year:

1. One course from Group A (GGR 100Y1 strongly recommended)
2. One course from: BIO 150Y1/CHM 137Y1/(138H1, 139H1)/151Y1/MAT 135Y1/137Y1/PHY 110Y1/ 138Y1/ 140Y1

## Higher Years:

1. Three of: GGR 201H1, 203H1, 205H1, 206H1
2. GGR 270H1, 390H1
3. 3.0 courses from last option list in Specialist program above

## Minor Program:

(4 full courses or their equivalent)

1. One course from Group A (GGR100Y1 strongly recommended)
2. One full course or equivalent from: GGR 201H1/203H1/ 205H1/206H1
3. GGR 390H1; (301H1/302H1/305H1); (272H1/307H1/ 310H1)
4. A half-course from Group C

## Urban, Economic and Social Geography (Arts program)

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### Specialist program:

(10 full courses or their equivalent, including at least one 400-series course)

### Entry Requirement:

Students must have a CGPA of 2.5

## First Year:

One course from Group A (GGR 124Y1 recommended)

## Higher Years:

1. GGR 220Y1, 270H1, 271H1, 272H1
2. GGR 491Y1/two of 431H1, 439H1, 450H1, 452H1, 455H1, 459H1, 492H1, 499H1, 457H1, 458H1, JFG 470H1,
3. One additional half-course from Group B
4. 5.0 courses from: GGR 216H1, 233Y1/JGE221Y1; GGR 246H1, 249H1, 252H1, 254H1, 256H1, 323H1, 324H1, 326H1, 327H1, 328H1, 333H1, 334H1, 336H1, 339H1, 342H1, 343H1, 344H1, 350H1, 357H1, 361H1, 362H1, 363H1, 366H1, 368H1, 391H1, 421H1, 431H1, 439H1, 450H1, 452H1, 459H1; JFG 470H1, 475H1; JGI 216H1, 346H1. Of the 5.0 courses, additional options include up to 1.0 courses from Group B and a second course from Group A.

### Major program:

(7 full courses or their equivalent)

## Note:

The general Geography major program is excluded from the arrangement whereby students in a four-year degree may take two major programs sponsored by the Department of Geography

### Entry Requirement:

Students must have a CGPA of 2.0 or 67% in 1.0 GGR FCE at the 100 or 200 level

## First Year:

One course from Group A (GGR 124Y1 recommended)

## Higher Years:

1. GGR 220Y1, 270H1, 271H1

2. 4.0 courses from last option list in Specialist program above

### Group A:

GGR 100Y1, 107Y1, 124Y1

### Group B:

GGR 270H1, 271H1, 272H1, 273H1, 337H1, 371H1, 373H1, 390H1, 391H1, 393H1, 462H1, 473H1, 480Y1, 490H1; JFG 470H1, 475H1

### Group C:

ENV 236Y1; GGR 201H1, 203H1, 205H1, 206H1, 301H1, 302H1, 303H1, 305H1, 307H1, 310H1, 314H1, 333H1 402H1, 403H1, 404H1, 409H1, 413H1, 490H

## Geography Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), GGR courses are classified in various categories; see entry at end of each course.

**INX199H1/Y1 First Year Seminar 52S**

**SCI199H1/Y1 First Year Seminar 52S**

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

### NOTE

Prerequisites: In some cases prerequisites may be waived if equivalent background exists. Please consult the Undergraduate Coordinator or instructor.

**GGR100Y1 Introduction to Physical Geography 52L, 8P**

Introduction to physical geography, with an earth systems approach. Topics include the atmosphere, weather and climate, Earth materials and plate tectonics, geomorphic processes and the genesis of landforms, river systems, glaciers, soils, biomes and the biosphere. Emphases placed on processes, energy flows, cycles and scale. Lab exercises and a local field trip provide practical experience with each major topic.

Exclusion: JGF150Y1/JGG150Y1

This is a Science course

**GGR107Y1 Environment, Food and People 52L, 10T**

Relations between population growth, agricultural development, urbanization and the natural environment. From the origins of agriculture to the present. From a few million to six billion people. The cost to the environment. The prospect of sustainability.

Exclusion: GGR101Y1, 110Y1

This is a Social Science course

**GGR124Y1 Urbanization, Contemporary Cities and Urban Life 52L, 6T**

Introduction to the urban process. From the origin of cities to global urbanization; the evolution of systems of cities; uneven growth and the functional specialization of cities; globalization and economic restructuring, migration, public policies. World cities. Dynamics of urban property markets, population and demography, job location, housing, mobility and neighbourhood

change, social structure and spatial inequalities. Planning, politics and policy issues in U.S. and Canadian cities.

This is a Social Science course

**GGR201HI Geomorphology 26L, 4P**

An introduction to the principles of geomorphology; earth materials; major features of crustal morphology; landforming processes of water, wind, waves and ice; human impact on earth surface processes. One hour laboratory session approximately every other week; a local field trip.

Recommended preparation: GGR100Y1

This is a Science course

**GGR203HI Introduction to Climatology 34L, 4T**

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.

Recommended preparation: GGR100Y1; MAT135Y1/137Y1; PHY110Y1/138Y1/140Y1

This is a Science course

**GGR205HI Introduction to Soil Science 26L**

Introduction to soil science dealing with the chemical, physical, and biological properties of soils; soil formation and development; the classification of soils, and the application of soil science to environmental, agricultural and forestry issues.

Recommended preparation: CHM137Y1/(138HI, 139HI); GGR100Y1

This is a Science course

**GGR206HI Introduction to Hydrology 30L, 4T**

An introduction to the hydrologic cycle with emphasis on the land processes; precipitation, evaporation, runoff, flood prediction; ground water and snowmelt hydrology. Basic hydrological models will be practiced.

Recommended preparation: GGR100Y1; MAT135Y1

This is a Science course

**GGR216HI Global Cities 26L**

With films, fiction and critical theory, this course explores global cities from around the world by looking at their everyday life: the people of these cities; how they got to be there; what they do; and how their lives are being shaped by increasingly globalized political, economic and cultural forces.

This is a Social Science or Humanities course

**JG1216HI Urbanization & Global Change 26L**

In this course, we examine the processes of globalization, mass urbanization and economic change that are taking place in cities around the world. This includes an interdisciplinary exploration of the industrial and economic changes that have ensued as a result of globalization, as well as the social and cultural manifestations associated with the emergence of global cities.

Recommended preparation: GGR124

**GGR220Y1 The Spatial Organization of Economic Activity 52L, 4T**

This basic course in economic geography introduces the main concepts and models that apply to problems of rural land use, trade and spatial economic interaction, industrial location, and regional development.

This is a Social Science course

**JGE221Y1 Environment and Sustainable Development 52L, 5P, 10T**

The foundation for students in the Centre for Environment programs and the Environment and Resource Management Program in Geography, this course addresses social, ethical and biophysical dimensions of problems in sustainable development, the need for environmental action, and some tools that lead to solutions. Draws from relevant interdisciplinary domains in an examination of environmental degradation, the responses of various actors and models for a more sustainable future. The environmental issues given special consideration vary from year to year.

Exclusion: JIE 222Y1/GGR 233Y1

Recommended Preparation: GGR 100Y1/107Y1

This is a social science course.

**GGR233Y1 Environmental Management for Sustainable Development 52L, 10T**

Addresses social and biophysical dimensions of problems in sustainable development and the need for environmental action. Encourages integrated approaches to the social origins and implications of environmental change, and the importance of scientific aspects of natural systems in discussions of sustainability.

Recommended preparation: GGR100Y1/101Y1/107Y1

This is a Social Science course

**GGR240HI Historical Geography of North America 26L**

An introduction to the historical geography of North America from the pre-Columbian period to the present. Topics include European imperialism, staple economies, colonial settlement, railroads and the West, industrialization and urbanization, sovereignty and security, environmental and agricultural change, and regional identities.

This is a Humanities course

**GGR246HI Geography of Canada 26L**

An historical, topical, and regional introduction to the geography of Canada. Primary emphasis is on the resource base, regional differences and disparities, urbanization, industrialization, social and economic policy and population change.

This is a Social Science course

**GGR249HI Contemporary Latin America 26L**

Conflict between the conservatism of long-established patterns of settlement and land use and the drive for economic development. Agricultural reform; colonization of the interior; emergence of industrial regions; growth of large cities. Case studies of the problems of regional development. Latin America in world trade. Trade relations with Canada. (Offered in alternate years)

This is a Social Science course

**GGR252HI Marketing Geography 26L, 4T**

The problem of retail location. The spatial structure of consumer demand and retail facilities. Shopping centres and retail chains. Techniques for site selection and trade area evaluation, location strategies, retail planning.

This is a Social Science course

**GGR254HI Geography USA 26L**

After a brief historical overview, focuses on contemporary issues in American society: economy, politics, race, regional distinctions and disparities, urban development and the U.S. as world power.

This is a Social Science course

# Geography

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**GGR256HI Recreation and Tourism 26L**

Introduction to spatial organization and environmental impact of recreation. Prediction of demand, problems of over-use, ecological risks, conflicts of interests, planning perspectives, Canada's tourist trade.

Recommended Preparation: Group A course:

This is a Social Science course

**GGR270HI Introductory Analytical Methods 39L, 13T**

Theory and practical application of elementary quantitative techniques in geography emphasizing descriptive, inferential and spatial statistical analysis, probability, and sampling.

Exclusion: ECO220Y1/ECO227Y1/GGR270Y1/PSY201HI/SOC300Y1/STA220HI/STA250HI/STA248HI/STA261HI

Pre- or Co-requisite: Two courses in Geography

This is a Social Science course

**GGR271HI Social Research Methods 26L**

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.

Exclusions: SOC200Y, POL242, WDW350

Prerequisite : GGR 270HI

This is a Social Science course

**GGR272HI Geographic Information and Mapping I 26L, 24P**

Introduction to the theory and use of geographic information systems (GIS) for acquiring, processing, analysing, and mapping environmental and socio-economic data. Map projections, raster and vector data structures, overlay analysis, output design.

This is a Social Science course

**GGR273HI Geographic Information and Mapping II 26L, 24P**

Intermediate topics on the theory and application of geographic information systems (GIS). Topics include data acquisition, geocoding, spatial analysis, and interpolation, terrain modelling and landscape analysis. Brief introduction to remote sensing.

Prerequisite: GGR272HI

This is a Social Science course

**GGR299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**GGR300HI Special Topics in Geography I 26L**

Content in any given year depends on instructor. The program in which the course can be used depends on its content.

Consult Department Office in April.

This is a Social Science course.

**GGR301HI Fluvial Geomorphology 26L, 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.

Prerequisite: GGR100Y1 or GGR201HI, 270HI (or equivalent)

This is a Science course

**GGR302HI Quaternary Paleoclimatic Reconstruction 26L, 4P**

Principles underlying use of ice cores, marine sediments, lake sediments, tree rings, coral reefs, and pollen to reconstruct past climates. Exercises involve downloading, plotting, and analysing proxy climatic data that are available over the Internet. (Offered in alternate years)

Prerequisite : GGR201HI/203HI

This is a Science course

**GGR303HI Climate-Biosphere Interactions 26L**

Discussion of the exchange of energy and matter (carbon, water) between the Earth's biosphere (terrestrial vegetation) and atmosphere, with a focus on processes underlying key feedbacks on regional climate. Examples will be taken from research on contemporary as well as paleoclimate systems. Case studies to include how human disturbances like land-use change or future climate change may alter these processes.

Prerequisite : Equivalent of one full-year science course at the 200-level, or permission from the instructor.

This is a Science course.

**GGR305HI Biogeography 26L**

Introduction to the spatial and temporal patterns of plant and animal distribution. The first half focuses on contemporary environmental and biological controls. The second half examines past patterns and their causes.

Recommended preparation: GGR 100Y or BIO 150Y

This is a Science course

**GGR307HI Soil and Water: Landscape Processes 26L, 10P**

An introduction to physical and chemical processes operating at micro- to landscape scales and their effects on soil and water quality. Discussion of anthropogenic impacts and management and conservation issues. Local and international case studies.

Recommended preparation: GGR205HI, GGR206HI

This is a Science course

**GGR310HI Cultural Biogeography 26L**

The changing relationship between people and the biosphere from the emergence of hominids to the present. Environmental constraints on human evolution, hunter-gatherer societies and their environmental impacts, evolution of agriculture and consequences of increasing population and technology, including deliberate and inadvertent introductions of plants and animals and forest fragmentation. (Offered in alternate years)

Recommended preparation: ANT200Y1/BOT430HI/GGR305HI

This is a Science course

**GGR314HI Global Warming 26L**

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; abatement options; technical and institutional issues.

This is a Social Science course

**GGR320HI Geographies of Transnationalism, Migration, and Gender 26L**

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.  
This is a Social Science course.

**JUG320HI The Canadian Wilderness 26L**

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.

This is a Social Science course

**JAG321HI Aboriginal People and Environmental Issues in Canada 26L**

This course explores Aboriginal views of environment and resource management from pre-European contact times through to the present from an Aboriginal perspective. Emphasis will be placed on the emerging role of Aboriginal people in environmental and resource management in Canada. Topics to be covered include: history of Aboriginal/non-Aboriginal relations, Aboriginal world view and philosophy, Aboriginal environmental ethics and principles and current environmental issues confronting Aboriginal people.

Prerequisite: Two credits in Geography or Aboriginal Studies

**GGR323HI Issues in Population Geography 26L**

Explores issues in geographies of population at a variety of scales from global to local. Issues include demographic patterns and population change, fertility, families and cohorts, mortality, and migration and immigration. Will draw mainly on the Canadian and U.S. experience, but examples will also be drawn from other regions of the world.

Recommended preparation: GGR270HI

This is a Social Science course

**GGR324HI Transportation Geography and Planning 26L**

An introductory overview of major issues in interurban and intraurban transportation at both local and national scales. Topics include causes of spatial interaction, graph theory and network analysis, gravity and entropy-maximizing models, urban transportation and land use, congestion, public transit and transport policy.

Prerequisite: GGR124Y1/220Y1 or permission of instructor

Recommended preparation: GGR270HI

This is a Social Science course

**GGR327HI Geography and Gender 26L**

An 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.

Prerequisite: Two courses in Geography

**GGR328HI Labour Geographies 26L**

This course 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: Two courses in Geography

**GGR330HI Atmosphere and Human Health 26L**

Human activities are altering the Earth's climate and changing the chemistry of the Earth's atmosphere. Globally, climate

change and stratospheric ozone depletion, and regionally, acid precipitation, air toxics, particulate matter, and smog are receiving much attention. This course discusses these air quality issues, the human health impacts of these problems, and possible solutions

Recommended preparation: GGR100Y1 or equivalent

**GGR331HI Resource and Environmental Theory 26L**

Introduction to and critical evaluation of major social theoretical paradigms applied to environmental and natural resource politics and regulation. Topics include: neo-classical approaches, eco-Marxism, political ecology, social constructivism, production of nature, ecological modernization, tragedy of the commons, staples theory, science and administrative rationalism.

Prerequisite: GGR100Y1/107Y1/233Y1

This is a Social Science course

**GGR332HI Urban Waste Management 26L**

This course examines 1) factors affecting the spatial distribution of wastes; and 2) models and policy implications inherent in all aspects of waste management, from waste generation through recycling and waste disposal. Contrasting waste management practices in the developed and the developing world is a central theme.

Prerequisite: GGR233Y1/JGE221Y1/200-level environmental course

This is a Social Science course

**GGR333HI Energy Supply and Use 26L**

Examines the technical and economic potential of advanced fossil-fuel-supply technologies, renewable energy (solar, wind, biomass, geothermal, ocean, hydro), and the potential for more efficient end use of energy in the residential, commercial, industrial, and transportation sectors. Also discusses: innovative energy systems, global scenarios, policy implications.

This is a Science course

**GGR334HI Water Resource Management 26L**

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.

Recommended preparation: GGR100Y1/107Y1, GGR233Y1/JEG221Y1

This is a Social Science course

**GGR335HI Business and Environmental Change 26L**

Steadily increasing pressure on biospheric resources (eg. water) and sinks (eg. the atmosphere) requires business to adapt and innovate, while simultaneously responding to globalization and the information revolution. Examples include the financial services sector, as well as energy, transportation, tourism and resource-based industries.

Recommended preparation: GGR233Y1/JEG221Y1

This is a Social Science course

**GGR336HI Urban Historical Geography of North America 26L**

Processes of urbanization; development of urban systems; changing internal patterns: central area, residential districts, housing, transportation, reform and planning movements. Emphasis on the 19th century and the first half of the 20th century.

Recommended preparation: GGR124Y1/SOC205Y1

This is a Humanities course

# Geography

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**GGR337HI Environmental Remote Sensing 26L, 26P**

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 principles.

Prerequisite: GGR272HI

This is a Science course

**GGR338HI Environmental Problems in Developing Countries 26L**

Describes and analyses a broad range of the key environmental issues currently facing developing countries from geographical perspectives. Emphasis is on air pollution, water contamination and treatment, residential and industrial solid waste collection and management, with multimedia and written examples drawn from throughout the developing world.

Prerequisite: 200-level environmental course

This is a Social Science course

**GGR339HI Urban Geography, Planning and Political Processes 26L**

The interdependence of political processes and institutions, public policy and urban geography. The political economy of federalism, urban growth, planning and public services as they shape the urban landscape. The spaces of the city as the negotiated outcomes of variously empowered people and the meanings they ascribe to localities and places. Approaches informed by post-colonial, post-modern, and feminist perspectives. Canadian, U.S. and European comparisons.

Prerequisite: GGR124YI, 246HI/254HI

This is a Social Science course

**GGR341HI Arctic Canada 26L**

An introduction to Canada's arctic and subarctic regions 'north of 60', an examination of physical processes that have shaped the region, as well as environmental, social, economic and political themes covering topics such as exploration and settlement, aboriginal land claims, wildlife and resource management, economic development and other current issues.

Recommended Preparation: Two courses in Geography

This is a Social Science course

**GGR342HI The Changing Geography of Southeast Asia 26L**

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: Two courses in Geography

This is a Social Science course

**GGR343HI The Changing Geography of China 26L**

The evolving physical, social, political and economic landscape of China. Focus on development strategies, industry, agriculture, urbanization and the environment since 1949. Special attention paid to the character and impact of China's on-going transition from a planned to market economy.

Recommended preparation: Two courses in Geography

This is a Social Science course

**GGR344HI Changing Geography of Russia and Ukraine 26L**

Overview of the physical environment and historical geography; changes in population distribution during the Soviet period;

current demographic and ethnic problems; the rural economy; urbanization, industrial location, and regional development issues.

Recommended preparation: Two courses in Geography

This is a Social Science course

**JGI346HI The Urban Planning Process 26L**

An 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 the other counties, primarily the United States.

Recommended Preparation: GGR124YI

This is a Social Science course

**GGR350HI Canada in a Global Context 26L**

This course considers geographic relationships between Canada and the world in the era of globalization, from the colonial period to the present. Local and regional sites will be linked to cultural, economic, environmental, and political processes occurring at a global scale. Key themes will include trade and investment, nationalism and identity, and Canadian geopolitics.

Prerequisite: 1.0 GGR courses

This is a Social Science course.

**GGR360HI Culture, History, and Landscape 26L**

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 aspects of landscapes, as well as struggles over their definition, interpretation, and use.

Prerequisite: 1.0 GGR courses

This is a Humanities course.

**GGR357HI Geography of Housing and Housing Policy 26L**

An introduction to housing in context: as a commodity, a political process and social necessity. The analysis of housing markets in an urban and spatial context, emphasizing the allocation mechanism, residential location and tenure choice, the role of the state, social housing and the relationships of housing changes to mobility, neighbourhood transition, and social equity. Case studies of specific policy issues and alternative housing strategies.

Recommended Preparation: GGR124YI

This is a Social Science course

**GGR361HI Understanding the Urban Landscape 26L**

Three related themes are discussed: the underlying social, cultural and economic forces that have given cities their form and image; various aesthetic and political philosophies that have been put into practice in constructing the urban landscape; and recent European and North American attempts to control the landscape of the contemporary metropolis by the application of urban policy and planning.

Recommended Preparation: GGR124YI and one of GGR 216,

GGR 240, GGR 246, GGR 249 or GGR 259

This is a Social Science course

**GGR362HI Cities of Difference 26L**

The course examines the connections between urban space and social identity through four related themes: theories of

difference; the urban geography of ethnicity, gender, sexuality and other axes of difference; the relationship of identity to the experience of place; and planning and the politics of difference. Recommended Preparation: GGR124 and one of GGR 216,

GGR 239, GGR 240, GGR 246, GGR 249 or GGR 254

This is a Social Science course

**GGR363HI Critical Geographies: An Introduction to Radical Ideas on Space, Society and Culture 39L**

This course introduces a diversity of critical perspectives in human geography, spanning anarchism, Marxism, feminism, sexual politics, 'postcolonialism' and anti-racism. In so doing it illustrates how such a range of radical ideas about space, society and culture have emerged and influenced our thought and action.

This is a Social Science and Humanities course

**GGR366HI Historical Toronto 26L**

Toronto's development compared to other large North American cities. Culture, social life, economy, politics, and planning process.

Recommended preparation: GGR336HI

This is a Humanities course

**GGR368HI Geography of Language 26L**

Topics in the distribution and spread of languages and dialects, including dialect atlases, innovation diffusion, measures of dialect distance, and linguistic consequences of urbanization and mobility. Rudiments of phonetics and grammar are integrated in the geolinguistic content.

Recommended preparation: Two courses in Geography

This is a Humanities or Social Science course

**GGR371HI Advanced Quantitative Methods in Geography 26L**

This course is designed to give students exposure to advanced quantitative techniques including inferential applications of the simple regression model, multiple regression analysis (MRA), data screening for MRA, model building issues in MRA, qualitative independent variable models, discrete choice models, cluster analysis and forecasting methods.

Prerequisite: GGR270HI

This is a Science course

**GGR373HI Advanced Geographic Information Systems 26L, 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: GGR270HI, 272HI

This is a Science course

**GGR390HI Field Methods TBA**

Introduction to field methods in vegetation mapping/analysis, soils, hydrology and geomorphology. The course includes exercises and a project during a one-week field camp early in September; 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. Students must register with the Department by April 2007.

Prerequisite: GGR100YI

This is a Science course

**GGR391HI Research Design 26S**

A seminar course in which each student prepares a research proposal incorporating relevant theory, published research, sources of data, and methods of enquiry and analysis. A proposal prepared in this course may be used to plan research for GGR 491YI.

Prerequisite: 3.0 300/400-series GGR courses

This is a Social Science course

**GGR393HI Environmental Impact Assessment 26L, 6P**

Environmental impact assessment as a mechanism for avoiding or mediating the costs of development. Emphasis on the institutional development of EIA in Canada, and EIA in the context of environmental regulation. Includes case studies of EIA statements and processes at various levels of government.

Prerequisite: GGR100YI/107YI/233YI

This is a Social Science course

**GGR398H0/ 399Y0 Independent Experiential Study Project**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**GGR400HI Special Topics in Geography II 26S**

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.

**GGR403HI Global Ecology and Biogeochemical Cycles 26L**

Seminar course on biogeochemical cycling of carbon, water, nitrogen, phosphorus, sulfur, and iron between the Earth's atmosphere, oceans, and biosphere. Focus will be placed on the global carbon cycle, including how other biogeochemical cycles feedback on carbon-based processes and mechanisms. Examples and case studies will be taken from research on contemporary as well as paleoclimate systems.

Prerequisite: Equivalent of two full-year courses at the 300 or 400 level, or permission from the instructor.

This is a Science course

**GGR409HI Contaminants in the Environment 26L, 11T**

The environmental behaviour and toxicology of inorganic and organic chemical contaminants is discussed in order to understand the scientific basis of pollution concerns. Theory is illustrated with qualitative and quantitative examples and case studies that extend from chemical emissions to health effects. Faculty is gained with simple mathematical models. The interface between science and policy are discussed throughout.

Prerequisite: CHM137YI/(138HI, 139HI)/151YI/GGR205HI

This is a Science course

**GGR413HI Watershed Hydroecology 26L**

Modern developments in hydrology and ecology, including form and process models, interactions of hydrology, ecology and geomorphology; the course emphasizes use of computer simulation models of drainage basin processes.

Prerequisite: GGR201HI/206HI/270HI

This is a Science course

**GGR415HI Resource and Environmental Planning 26L**

The policy and institutional aspects of resource and environmental planning in Canada. Overview of the evolution of

# Geography

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resource and environmental management and the examination of selected planning techniques; community involvement in planning; the ecosystem approach to planning; emphasis on environmental planning in the urban context.

Prerequisite: GGR233Y1/JEG221Y1/200-level environmental course.

This is a Social Science course

## **GGR418HI Political Economy of Natural Resources 26S**

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: GGR233Y1/JEG221Y1

This is a Social Science course

## **GGR421HI History & Philosophy of Geography 26S**

The history of geography as an intellectual subject, focusing primarily on the modern period, and on the genealogy of central concepts such as region, landscape, and place.

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: Two courses in Geography

This is a Humanities course

## **GGR431HI Regional Dynamics 26L**

Theory and analysis of regional economic change with emphasis on North America and Western Europe. Export-base, neoclassical, increasing returns, and political-economic explanations of regional growth and decline, globalization, knowledge-based economy and the role of regions. Geography of technological change, labour-markets and labour relations. Objectives and approaches for local and regional development policy, including talent-based strategies for enhancing local creativity.

Prerequisite: GGR220Y1, 270HI

This is a Social Science course

## **GGR439HI Global Political Geography 26S**

Introduction to geopolitical theories. Emphasis on the development of the nation state, theories of land claims and the territorial manifestations of nationalism. Will examine recent theoretical as well as empirical challenges to many of the conventional geopolitical assumptions about scale, space, and power in global politics. Please note that this course is open to students who have taken GGR 239HI (formerly Global Political Geography).

Prerequisite: Two courses in Geography or permission of instructor.

Recommended preparation: This course should not be attempted until you have completed two years of full-time study or the equivalent number of credits part-time.

This is a Social Science course

## **GGR450HI Medical Geography 26L**

This course is an introduction to medical geography. It includes the following topics: concepts and techniques of medical geography; human ecology of disease; regional patterns of diseases; biometeorological influences on health and disease; health effects of environmental modification and contamination; disease diffusion; spatial distribution of health care resources; and emerging and re-emerging infections.

Prerequisite: Group A, GGR270HI

Recommended preparation: BIO 150Y1 or equivalent

This is a Social Science course

## **GGR451HI Health and Place 26L**

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: GGR 233Y1

Recommended preparation: GGR270HI

This is a Social Science course

## **GGR452HI Space, Power, Geography: Understanding Spatiality 26S**

The changing nature of space and our thinking about it, centering on works of contemporary geographers and spatial theorists such as Lefebvre, Soja, Gregory, Harvey, Massey and challenges to this thinking. Explores changing concepts of spatiality that inform geographic thought and help us understand the ways political, economic and social power is constituted and contested.

Prerequisite: GGR124Y1

Recommended preparation: GGR339HI/361HI

This is a Social Science course

## **JGI454HI The Role of the Planner: Making a Difference 26L**

This course will focus 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 new City of Toronto Act.

Prerequisite: 15 credits, 5.0 of which must be GGR/INI Urban Studies

This is a Social Science course

## **GGR457HI The Post-War Suburbs 26L**

This course investigates post-war suburbs, beginning with an examination of their competing contemporary meanings. It considers images of prosperous private enclaves, of declining and difficult to access places, of racialized and segregated areas, of banality and homogeneity, of precarity and polarization, and of creative social struggles. It assesses these different visions through an analysis of urban growth and change since WWII. The course will focus on themes of public and private space; class, race and segregation; gender and suburban space; immigration; 'urban sprawl', and the changing social and economic geography of the suburbs. It examines North American areas, with examples from Australia and Europe.

Prerequisite: 10 FCEs

## **GGR458HI Advanced Topics in Urban Geography 26L**

Though there is some debate about the actual moment, we have either already surpassed or will very soon exceed the point when over 50 percent of the earth's inhabitants live in cities. In most developed countries, the rate of urbanization is



well over 70 percent already. In short, the twenty-first century is rapidly shaping up as the urban century. The social, economic and political significance of cities is thus increasingly important to understand. This course will cover advanced work on the geography of cities to further this understanding. The first third of the course will cover foundational ideas in urban geography while the final two thirds will cover two separate contemporary topics in the field. The course will be useful for those broadly interested in the topic or more particularly interested in preparing for a career in urban planning or policymaking. Prerequisite: 10 FCEs

**GGR459HI Urban Form, Structure and Growth 26L**

Alternative perspectives on urban form and growth: the processes, logics and tensions underlying metropolitan development; production and consumption spheres; changes in the demographic, political, ethno-cultural and social fabric of cities; global economic restructuring and shifts in urban labour markets; land development and suburbanization; inner city revitalization and suburban decline; conflicts over public goods and services; policy issues and equity questions; quality of life and future urban forms.

Prerequisite: GGR124Y1, 270HI  
This is a Social Science course

**GGR462HI Geographic Information Systems 26L**

Advanced level of GIS; project-based use of GIS for spatially referenced socio-economic, environmental, and planning data analysis; enhanced ability in using GIS for solving practical problems.

Prerequisite: GGR272HI, 373HI, and two other GGR courses  
This is a Science course

**JFG470HI Forest Management 26L**

Application of operational research and information technology to develop decision support systems for forest land management planning. Basic principles of mathematical programming, simulation and decision analysis, and their application to planning for forest conservation and sustainable development, policy analysis and other land management planning problems.

Prerequisite: One course in quantitative methods or linear algebra

Recommended preparation: GGR270HI/ECO220Y1/227Y1/MAT133Y1/223HI

This is a Science course

**GGR473HI Cartographic Design 13L, 26P**

The design and production of maps using GIS cartographic and graphics software packages. Map perception and map use, principles and elements of cartographic design, data acquisition and manipulation, production and reproduction of maps and atlases. Practical exercises culminate in a major project in thematic map design.

Prerequisite: GGR272HI, 273HI  
This is a Social Science course

**JFG475HI Emergency Response Systems Planning 26L**

Use of operational research and information technology to develop mathematical models and decision support systems to design and evaluate the performance of emergency response systems. Forest fire management systems are used to illustrate the basic principles of emergency response system planning that can also be applied to urban fire, police, and ambulance services.

Prerequisite: One course quantitative methods or calculus  
Recommended preparation: GGR270HI/ECO220Y1/227Y1/MAT133Y1/135Y1/137Y1

This is a Science course

**GGR480YI Advanced Field Research-Human Geography 26L**

Context in any given year depends on instructor and location.

Offered in summer session. Consult departmental office in April.

Prerequisite: Permission of the instructor

This is a Social Science course

**GGR490HI Advanced Field Research-Physical Geography TBA**

A two-week course emphasizing the use of advanced field methods for analyzing the pattern of variations in vegetation, soils, surface hydrology and geomorphology in montane and alpine environments. Course is offered in August at the University of Calgary's field station, Kananaskis, Alberta. Students are responsible for the cost of board, lodging and transport to and from the field. Students must register with the Department in March. (Offered in alternate years)

Prerequisite: Two Physical/Environmental courses or permission of instructors

Recommended preparation: GGR390HI

This is a Science course

**GGR491YI Research Project**

A course 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 member of staff. Early discussion with the course coordinator, Undergraduate Coordinator and likely supervisor is encouraged; enrolment may be completed at any time up to September. Open to students meeting the following exclusions and enrolled in a Specialist or Major Program sponsored by the Department of Geography.

Prerequisite: 15 course credits

**GGR492HI Senior Practicum**

Students design and implement an independent applied geography/planning project in consultation with an NGO or government organization, who will act as their "client." Enrolment requires written permission from a staff supervisor and Undergraduate Coordinator. Only open to students who are enrolled in a Specialist or Major program sponsored by the Department of Geography.

Prerequisite: GGR391HI/392HI, 15 course credits

# Geography

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## **GGR498HI Independent Research I**

An independent research extension to one of the courses already completed in Physical Geography. Enrolment requires written permission from a staff supervisor and Undergraduate Coordinator. Only open to students who have completed 15 course credits and who are enrolled in a Specialist or Major program sponsored by the Department of Geography.

Exclusion: GGR491Y1

This is a Science course

## **GGR499HI Independent Research II**

An 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 staff supervisor and Undergraduate Coordinator. Only open to students who have completed 15 course credits and who are enrolled in a Specialist or Major program sponsored by the Department of Geography.

Exclusion: GGR491Y1

This is a Social Science or Humanities course

## Faculty

### University Professor Emeritus

A.J. Naldrett, MA, M Sc, Ph D, FRSC

### Professors Emeriti

G.M. Anderson, B Eng, MA Sc, Ph D

J.J. Fawcett, B Sc, Ph D

J. Gittins, M Sc, Ph D, Sc D (U)

A.M. Goodwin, M Sc, Ph D, FRSC

D.H. Gorman, B Sc, Ph D

G. Norris, MA, Ph D, FRSC (U)

P.-Y. F. Robin, M Sc, Ph D (University of Toronto Mississauga)

J.C. Rucklidge, MA, Ph D

W.M. Schwerdtner, Dip Geol, Dr Rer Nat

S.D. Scott, Ph D, FRSC

J.C. Van Loon, B Sc, Ph D

J.A. Westgate, B Sc, Ph D (S)

### Professor and Chair of the Department

A. Cruden, B Sc, PhD (University of Toronto Mississauga)

### Associate Professor and Associate Chair (Graduate Studies)

J. Brenan, B Sc, Ph D

### Associate Professor and Associate Chair (Undergraduate Studies)

J.E. Mungall, M Sc, Ph D

### Professors

R.C. Bailey, B Sc, Ph D

N. Eyles, M Sc, Ph D (UTS)

F.G. Ferris, B Sc, Ph D

H.C. Halls, M Sc, PhD (University of Toronto Mississauga)

K.W.F. Howard, M Sc, Ph D (UTS)

A.D. Miall, B Sc, Ph D, D Sc, FRSC

B. Sherwood Lollar, BA, Ph D, FRSC

E.T.C. Spooner, MA, Ph D (U)

P.H. von Bitter, MA, Ph D

### Associate Professors

D. Davis, M.Sc, Ph D

M.P. Gorton, B Sc, Ph D

M.A. Hamilton, M Sc, Ph D

G.S. Henderson, M Sc, Ph D

D.J. Schulze, M Sc, Ph D (University of Toronto Mississauga)

R. Pysklywec, M Sc, Ph D

### Assistant Professors

J. Bollmann, Dip Geol, Ph D

R. Ghent, M Sc, Ph D

J. Halfar, Dip Geol, Ph D (University of Toronto Mississauga)

G. Srinivasan, M Sc, Ph D

U. Wortmann, Dip Geol, Dr Rer Nat

### Lecturer

C.G. Bank, M Sc, Ph D

Geology means "Study of the Earth." This covers everything from the origin of the Earth and its position in the Solar System, to the physical, chemical and biological processes which have brought the Earth through its 4.5 billion year history to the present time, when society itself can be seen as an agent of geological change. Besides the fundamental studies of rocks, minerals and fossils, Geology is concerned with the exploration and responsible recovery of vital resources such as metalliferous ores, coal, petroleum, natural gas, industrial minerals and groundwater. An understanding of the way the Earth works is important to achieve effective protection of the environment. Hence, geologists are widely employed in problems of urban development, water and soil pollution, waste disposal, earthquake and volcanic risk assessment, public policy and resource management. Under the Professional Geoscientists Act of 2000, individuals practising Geoscience in Ontario require education equivalent to the one of the Specialist Programs listed below or a P.Eng.

Four Specialist Programs are offered: Geology, Environmental Geosciences, Geology and Physics, and Chemistry and Geology. Major and Minor programs are offered in Geology as well as a Major program in the Environmental Geosciences. Students are encouraged to discuss their plans on program and course selection with the Associate Chair (Undergraduate Studies) or Program Supervisor. Students wishing to enter a Geology Specialist program should have taken the following courses in Grade 12: English ENG4U, Chemistry SCH4U, Physics SPH4U, and Functions MCB4U or equivalent.

The Professional Experience Year (PEY) program (see Student Services and Resources in this Calendar) is available to eligible students after their third year of study. The PEY program is an optional 16-month work term which provides industrial experience; its length gives students the opportunity to enjoy the rewarding experience of initiating and completing a major project.

More information about undergraduate studies in Geology is contained in a booklet which is available from the departmental office (ESC 1066). Additional courses with geological content are listed in the Calendar of the Faculty of Applied Science and Engineering.

Undergraduate Coordinator:  
James Mungall (416-978-2975) email: mungall@geology.utoronto.ca

Enquiries:  
Department of Geology, Earth Sciences Centre (416-978-3022)

# Geology

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## Geology Programs

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The introductory 100-level course GLG102HI is strongly recommended for enrolment in all programs in the Department of Geology. No minimum GPA is required.

### Geology (Science program)

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Consult the Undergraduate Coordinator, Department of Geology, Earth Sciences Centre

#### Specialist program:

(14 full courses or their equivalent)

First Year:

required: CHM 151YI/(138HI, 139HI); MAT 135YI/137YI; PHY 138YI/140YI;

recommended: BIO 150YI and GLG102HI

Second Year:

GLG 202HI; GLG204HI; GLG 206HI, GLG207HI, GLG216HI, GLG217HI; MAT 223HI

Third Year:

GLG 318HI, 340HI, 345HI, 351HI, 360HI; ENV 315HI

Fourth Year

1. GLG 445HI, GLG470YI
2. 3.0 full 400-series GLG or JGP courses

#### Major program:

(8 full courses or their equivalent)

First Year:

required: CHM 151YI/(138HI, 139HI); MAT 135YI/137YI; PHY 138YI/140YI

recommended: BIO 150YI and GLG102HI

Second Year:

GLG 206HI, 207HI, 216HI, 217HI

Higher Years:

1. GLG 340HI
2. 2.5 courses from 300/400-series GLG courses/ENV 315HI/JGP 438HI

#### Minor program:

(4 full courses or their equivalent)

Four full course equivalents of which one full course or equivalent is at the 300/400-level

First Year:

GLG 102HI, one half course equivalent from other 100-series GLG course; one full course equivalent of 100-series CHM, BIO, or PHY courses

Second Year:

One full course equivalent from 200-series GLG courses

Third Year:

One full course equivalent from 300/400-series GLG courses/ENV 315HI/JGP 438HI

#### NOTE:

Some GLG courses have CHM/MAT/PHY prerequisites

### Environmental Geosciences - See Centre for Environment

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### Geology and Chemistry - see Chemistry

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## Geology and Physics (Science program)

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Consult Departments of Geology and Physics

#### Specialist program:

(14 full courses or their equivalent with at least one course at the 400-level)

First Year:

CHM 151YI; MAT 137YI; PHY 140YI; GLG102HI is strongly recommended

Second Year:

GLG 206HI, 207HI, 216HI, 217HI; MAT 237YI, 244HI; PHY 251HI, 255HI

Third Year:

APM 346HI; GLG 345HI; PHY 225HI, 308HI, 351HI, 352HI

Fourth Year:

1. GLG 340HI
2. 1.5 300/400-series GLG courses
3. 1.5 300/400-series PHY courses

#### Note:

1. Students are encouraged to select courses on the basis of a coherent theme such as Exploration Geology and Geophysics, Global Tectonics, or Environmental Geodynamics.
2. Students are required to register with the Departments and have their programs approved.

## Geology Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all GLG courses are classified as SCIENCE courses.

**SCI199HI/YI First Year Seminar 52S**  
Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

**GLG102HI Earth Science 26L, 26P**  
Introduction to the functioning of the Earth as a chemical and physical system. Topics include formation of the Earth from the solar nebula, radioactive decay and age dating, meteorite impacts, melting and crystallization of rocks, erosion and sedimentation, the carbon cycle and its effects on climate, and the transport and remediation of pollutants in the environment. Prerequisites: Grade 12 Chemistry SCH4U, Physics SPH4U, and Functions MCB4U or equivalent. Exclusion: GLG 110HI

**GLG103HI Geology in Public Issues 26L**  
Geologic hazards: earthquakes, volcanoes, landslides, tsunamis. The distribution and politics of natural resources, including petroleum and ore deposits. Nuclear power and nuclear waste disposal. Global change: the geologic record of hot and cold climates, and how the earth survives. GLG103HI is primarily intended as a science Distribution Requirement course for Humanities and Social Science.

- GLG105HI Evolution of the Earth: Controversy over the Last 2300 Years 26L**  
 The evolution of ideas about the origin and development of the earth from the Athenians to the 20th Century. With attention on whether the earth has an infinite or a finite life; on the evolution and disappearance of species; on the origin of oceans, continents and mountains; on the forces that have shaped the earth's surface; and on the courage of scientists in confronting the religious and political views of their time.  
 GLG105HI is primarily intended as a science Distribution Requirement course for Humanities and Social Science students.
- GLG110HI Introductory Geology 26L**  
 The nature and evolution of the Earth; plate tectonics; rocks and minerals; volcanism; geological time; fossils; geology of Ontario; environmental issues.  
 Exclusion: GLG 102HI  
 GLG110HI is primarily intended as a science Distribution Requirement course for Humanities and Social Science students
- GLG130HI Exploration of the Solar System 26L**  
 Scientific findings of the solar system exploration program and their application to the origin of the earth and solar system; space resources; search for life on other planets.  
 Prerequisite: Grade 12 U Chemistry or Physics
- GLG202HI Introductory Geochemistry 26L, 39P**  
 An introduction to thermodynamics, phase diagrams and solution chemistry, with application to geological and environmental processes.  
 Prerequisite: CHM151Y1/(138HI, 139HI); MAT 135Y1/137Y1
- GLG204HI Quantitative Methods in Geology 26L, 39P**  
 An introduction to quantitative approaches to geological problems: use of scalars, vectors and tensors in stress and strain analysis, statistical treatment of geological datasets, heat and mass transfer in earth materials.  
 Prerequisite: MAT135Y1/137Y1; MAT223HI; PHY138Y1/140Y1
- GLG205HI Confronting Global Change 26L, 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.  
 GLG205HI is primarily intended as a science Distribution Requirement course for Humanities and Social Science students
- GLG206HI Materials of the Earth 26L, 39P**  
 An overview of the structural, chemical and optical properties of minerals. Laboratories on the identification of minerals in hand specimen and thin section. A mandatory 2 day field trip in late September.  
 Prerequisite: CHM (138HI, 139HI)/151Y1 is recommended
- GLG207HI Rock-forming Processes 26L, 39P**  
 Origin and classification of igneous, sedimentary and metamorphic rocks and their associated ore deposits. Emphasis is placed on formation of rock types in the context of plate tectonic theory, and the practical aspects of rock identification in hand sample and thin section.  
 Prerequisite: GLG206HI
- GLG216HI Dynamic Geology 26L, 39P**  
 A survey of principal physical, biological and chemical processes shaping the Earth. Laboratories will explore these processes in more detail through a series of problem sets.  
 Prerequisite: CHM (138HI/139HI)/151Y1 is recommended.
- GLG217HI Earth Evolution 26L, 39P**  
 An introduction to the evolution of the biosphere from the earliest stabilization of the Earth's crust. Patterns of evolution and extinction are related to physico-chemical and biologically-mediated changes at the Earth's surface. Laboratories cover major groups of invertebrate fossils, microfossils, their classification and living analogues.  
 Prerequisite: BIO 150Y1 is recommended
- ENV234YI Environmental Biology**  
 See "Centre for Environment"
- GLG299YI Research Opportunity Program**  
 Credit course for supervised participation in faculty research project. See page 47 for details.
- ENV315HI Chemical Analysis of Environmental Samples**  
 See "Centre for Environment"
- GLG318HI Igneous and Metamorphic Processes 26L, 39P**  
 An overview of the nature and origin of igneous and metamorphic rocks, with particular emphasis on the interpretation of textures and mineral assemblages as they reflect conditions of rock formation. Laboratory exercises familiarise students with the most common igneous and metamorphic rock types, and provide practical examples of the theoretical principles discussed in lectures. This course also has a mandatory weekend field trip to view igneous and metamorphic rocks and structures. The venue for the trip alternates yearly between Bancroft and the Montreal area.  
 Prerequisite: GLG 202HI, 206HI, 207HI
- GLG319HI Metamorphic Processes 26L, 39P**  
 Descriptive petrography and classification of metamorphic rocks; metamorphic processes and evolution of metamorphic rocks; interpretation of metamorphic rocks.  
 Prerequisite: GLG 202HI, 206HI, 207HI
- GLG340HI Field Course I: White Fish Falls Manitoulin Island TBA**  
 A ten-day field course in mid-May or late August. Students are introduced to field geology and to basic field measurement, mapping and documentation techniques 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.  
 This is a summer session course and students must also register with the Department in the preceding term  
 Prerequisite: GLG207HI, 216HI, 217HI or permission of instructor
- GLG345HI Structural Geology 26L, 39P**  
 The development of geological structures at a variety of scales is examined using the concepts of stress, strain, material behaviour and tectonic setting. Laboratory work focuses on modern methods of structural analysis and their applications in geotechnical engineering and economic geology.  
 Prerequisite: GLG216HI or MIN 185HI

# Geology

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## **GLG351HI    Geochemical and Biological    26L, 26P** **Regulation of Aqueous Systems**

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: CHM (138HI, 139HI)/151Y1; and any 2nd year science course. GLG 202HI is recommended.

## **GLG360HI    Sedimentary Geology    26L, 39P**

An introduction to the methods for studying sedimentary rocks in surface and subsurface. Petrographic description and classification of sedimentary rocks are dealt with in lectures and laboratory exercises, followed by a treatment of the principles of stratigraphic documentation and correlation, facies-analysis methods, and a brief description of depositional systems.

Prerequisite: GLG207HI, 216HI/MIN 185HI

## **GLG371HI/    Directed Studies    372Y1**

An individual study program chosen by the student with the advice of, and under the supervision of, a staff member. Such work may involve obtaining data in the field or lab and analysing it, an interdisciplinary research project, and supervised readings.

Prerequisite: enrolment in a Geology Major or Specialist

Program of Study; completion of at least two full course equivalents of 200-series GLG courses.

## **GLG398H0/    Independent Experiential Study Project    399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

## **GLG423HI    Mineralogy    39L**

Crystal chemistry of the major rock forming minerals. The course covers the underlying concepts behind the behaviour of minerals as solid-state materials including: Structure and bonding of minerals, chemical substitutions and solid-state transformations, high temperature and pressure behaviour, chemical weathering and kinetics.

Prerequisite: GLG206HI

## **GLG430HI    Basin Analysis    39L, 13P**

Architecture and evolution of sedimentary basins in relation to plate-tectonic setting and crustal properties. Sequence stratigraphy: sequence models and sequence forcing mechanisms tectonism, eustasy, climate change. The global-cycle-chart controversy. World-wide review of basins in the context of plate tectonics.

Prerequisite: GLG360HI

## **GLG436HI    Paleocological Assessment    26L, 39P** **of Environmental Change**

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. Paleoenvironmental techniques are applied in the laboratory.

Prerequisite: A 200-level course from one of BIO, GGR, GLG

Recommended preparation: BIO468HI/469Y1/GLG217HI

## **JGP438HI    Shallow Crust Geophysics    26L, 39P**

An introduction to the geophysical exploration of the subsurface. Topics include gravity, seismic, magnetic, electrical and electromagnetic surveying and their application in prospecting, hydrogeology, and environmental assessments.

Exclusion: PHY496HI

Prerequisite: GLG345HI or permission of instructor

## **GLG440HI    Advanced Petrology    26L, 39P**

Integrated field, experimental and theoretical approaches to understanding the petrological diversity of igneous and metamorphic rocks. Topics include development of thermobarometers for igneous and metamorphic rocks, the importance of oxygen fugacity in petrogenesis, melting/solidification and metamorphism and igneous activity in the context of global tectonics.

Prerequisite: GLG318HI

## **GLG441HI    Remote Sensing of Earth and    26L, 39P** **the Terrestrial Planets**

Remote sensing of Earth and terrestrial planets; introduces theory and principles of optical and radar remote sensing. Applications to new planetary data, including those from Earth, Mars, and the Moon, are emphasized. Practical components of the course involve GIS applications for the synthesis and analysis of multiple datasets.

Prerequisite: At least two full course equivalents from any 200-series Science courses.

## **GLG442HI    Mineral Deposits    26L, 39P**

Geology and geochemistry of ore deposits. Origin and interpretation; systematic ore mineralogy, in hand specimen and reflected light microscopy.

Prerequisite: GLG 207HI

## **GLG443HI    Ore Genesis and Exploration    26L, 39P** **Geochemistry**

Genesis of ore deposits. The basic tools for studying ore genesis such as stable isotopes, fluid inclusions and sulfide mineralogy and their applications to selected types of ores.

Prerequisite: GLG 442HI

## **GLG445HI    Field Course II: Benny Belt    TBA**

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. Students are responsible for the costs of board, lodging and transportation for a 14-day field trip.

This is a summer session course and students must also register with the Department during the preceding term.

Prerequisite: GLG207HI, GLG340HI/MIN240F, GLG 345HI or permission of instructor

## **GLG448HI    Field Course III: Chalk River    TBA**

A two-week course in late summer designed to familiarize students in a variety of hydrogeological and biogeochemical field techniques; based at Atomic Energy Canada Laboratories, Chalk River, and includes a mixture of lecture, laboratory and field exercises. Students are responsible for the cost of board and lodging and transport to and from the field area.

This is a summer session course and students must also register with the Department during the preceding term.

Prerequisite: GLG351HI or permission of instructor

**GLG450HI Contaminant Fate and Transport in Subsurface Environments 26L, 26P**

Drawing primarily on examples from hydrogeology, this course explores physical, chemical and isotopic constraints on contaminant source transport and attenuation

Prerequisite: GLG351HI or permission of instructor

**GLG465HI Geodynamics 26L, 39P**

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.

Prerequisite: GLG345HI or permission of instructor

**GLG470YI Research Project TBA**

Laboratory research emphasizing methods and experimental techniques applicable to geology. Students must obtain the consent of an instructor and register with the Undergraduate Coordinator before enrolling and are urged to do so toward the end of their Third Year. Students are required to give an oral presentation of research results to an open meeting of the Department.

Exclusion: GLG471HI

Prerequisite: Completion of the required 300-level courses in a specialist program involving Geology and permission of the Department

**GLG471HI Research Project TBA**

Laboratory research emphasizing methods and experimental techniques applicable to geology. Students must obtain the consent of an instructor and register with the Undergraduate Coordinator before enrolling and are urged to do so toward the end of their Third Year. Students are required to give an oral presentation of research results to an open meeting of the Department.

Exclusion: GLG470YI

Prerequisite: Completion of the required 300-level courses in a specialist program involving Geology and permission of the Department

# German

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## Faculty

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### University Professor Emeritus

H. Eichner, BA, Ph D, LL D, FRSC

### Professors Emeriti

E. Catholy, Dr Phil (SM)  
A.P. Dierick, MA, Ph D (V)  
R.H. Farquharson, MA, Ph D (V)  
H. Froeschle, MA, Dr Phil (SM)  
C.N. Genno, MA, Ph D (V)  
W. Hempel, Dr Phil (SM)  
D.A. Joyce, AM, Ph D (T)  
H.L.M. Mayer, Dr Phil (V)  
H.W. Seliger, M.A. Ph D ((V)  
D.W.J. Vincent, MA, Ph D (T)  
H. Wetzel, Dr Phil (U)

### Professor and Chair of the Department

TBA

### Professor and Associate Chair for Graduate Studies

TBA

### Associate Chair for Undergraduate Studies

TBA

### Associate Professors

M. Hager, Dr phil  
J. Zilcosky, MA, Ph D

### Assistant Professors

A. Fenner, Ph D  
S. Soldovieri, MA, Ph D (University of Toronto Mississauga)  
M. Stock, Dr phil

### Lecturer

E. Boran, Ph D

### DAAD Visiting Associate Professor

Stefan Haas, Dr phil habil

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 grow 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, Grass, Jelinek, 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 on the beginning, intermediate and 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 at the beginning, intermediate and 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, 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 Elsewhere Program." One of these is the exchange program under which Toronto students can spend the academic year at the Humboldt University in Berlin.

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 but without an OAC or equivalent qualification may be asked to write an initial assessment test and will then be advised to take courses at the appropriate level. Students who have taken German in high school to OAC or equivalent level will normally begin with GER200Y1.

Information on studies in German Language and/or Literature can be obtained from the Associate Chair for Undergraduate Studies.

Enquiries: Department of Germanic Languages and Literatures, 50 St. Joseph Street, Room 322 (416-926-2324).

E-mail: [german@chass.utoronto.ca](mailto:german@chass.utoronto.ca)

Web site: [www.chass.utoronto.ca/german](http://www.chass.utoronto.ca/german)

## German Programs

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### German Studies (Arts program)

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Enrolment in the Specialist and Major programs is open to students who have successfully completed four courses and who have the required competence in German. Students without OAC German or equivalent should arrange their courses in consultation with the Department. Students who have any prior experience with German and are taking any GER language course for the first time should contact the Department for details on placement tests.

### Specialist program:

(10 full courses or their equivalent)

The Specialist Program requires that at least four of the ten courses must be at the 300+ level.

I. GER100Y1,



2. GER200Y1, 205HI
3. GER300Y1, 305HI, 310HI
4. GER400HI
5. The remainder of the courses must be chosen from: GER courses at the 200+ level. Of these courses not more than 2 full courses may be taken in English. Permission may be granted to count cognate courses from other departments.

### Major program:

(7 full courses or their equivalent)

The Major Program requires that at least three of the seven courses must be at the 300+ level.

1. GER100Y1
2. GER200Y1, 205HI
3. GER300Y1, 305HI, 310HI
4. The remainder of the courses must be chosen from GER courses at the 200+ level. Permission may be granted to count cognate courses from other departments. No more than 1.5 full courses may be taken in English.

### Minor program:

(4 full courses or their equivalent)

Four GER full course equivalents, which must be approved by the Department before enrolment in the Second Year. One of these courses must be a 300-level course. No more than 0.5 full courses may be taken in English.

### Business German (Arts program)

#### Minor Program:

(4 full courses or their equivalent)

Four GER full course equivalents, including GER370HI and GER470HI. The remainder of the four courses or equivalent must have a GER designator.

### German and Linguistics (Arts program)

#### Specialist Program

This specialist program consists of 13 or 14 courses in linguistics and German

#### Linguistics

For the linguistics requirement, see "Linguistics and Languages Other than English."

#### German:

(6 full courses or their equivalent)

1. GER100Y1
2. GER200Y1
3. GER300Y1
4. GER400 HI
5. The remainder of the six courses must have a GER designator.

### German - See also Modern Languages and Literatures: Linguistics and Languages

### Al and Malke Green Yiddish Program (Arts Program)

#### Minor program:

(4 full courses or their equivalent)

1. GER260Y1

2. GER360HI
3. GER361HI/362HI/363Y/364HI
4. GER462HI
5. The remaining courses should be taken from: GER490HI/490YI, ENG256YI, GER100YI, HIS208YI/433HI, SLA202HI or other approved cognate courses.

### German Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all GER courses are classified as HUMANITIES courses.

#### **HUMI199HI/YI First Year Seminar 52S**

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

#### Notes

Students with German-speaking background are expected to consult the Department about their programs. The Department reserves the right to place students in the language course appropriate to their level of language skill.

Reading lists for the various courses are available from the Department.

Students intending to specialize in German may also consult the Calendar of the University of Toronto Mississauga for additional course offerings which may be counted for specialization.

#### **GER100Y1 Introduction to German I 104P**

An intensive language course for students with no previous knowledge of German. Practice in comprehension, reading, writing and speaking. This course can be counted towards all programs in German.

Exclusion: OAC German or equivalent

#### **GER101HI Introduction to German 52P**

An intensive language course for students with some prior knowledge of German but not quite OAC level. This course is equivalent to the Spring Term of GER100Y1.

Prerequisite: Permission of Department

#### **GER150HI Introduction to German Culture 39S**

This is a survey course which introduces students to German social, cultural, and intellectual history. This course is taught in English and is open to all students.

Exclusion: GER150Y1

#### **GER200Y1 Introductory German II 78P, 26T**

Continuation of work done in GER100Y1/101HI. Further expansion of basic grammar and vocabulary, practice in comprehension, translation, composition, and conversation.

Exclusion: GER200HI/201HI; not open to fluent or nearly fluent speakers of German

Prerequisite: GER100Y1/101HI, OAC German or equivalent, or permission of the department.

#### **GER204HI German Literature in Translation 39S**

An overview of some key works in German literature. This course serves as an introduction to German literature, and is suited for students with little or no prior knowledge of the German language.

Exclusion: GER204Y1

# German

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- GER205HI German Literature I 39S**  
An introduction to the study of German literary texts in the original German. This course is required for majors and specialists.  
Exclusion: GER304HI  
Prerequisite: GER100YI, or permission of department
- GER232HI German Drama in Translation 39S**  
Representative dramas of the 19th and 20th centuries by a variety of authors are analyzed in depth and the dramatic forms highlighted. When available, a film version of the drama will be discussed.
- GER260YI Elementary Yiddish 78P**  
Introduction to Yiddish language, literature, and culture, featuring intensive practice with a native speaker. The dialect taught is that of the text *College Yiddish* by Uriel Weinreich.
- GER299YI Research Opportunity Program**  
Credit course for supervised participation in faculty research project. See page 47 for details.
- GER300YI Intermediate German 78P**  
German at the intermediate level: extension of vocabulary, specific problems of grammar, practice in translation, essay-writing, reading and conversation. The Department reserves the right to place students in the appropriate course in the series GER200YI and 300YI.  
Exclusion: GER300HI, 301HI  
Prerequisite: GER200YI/ or permission of the department
- GER305HI German Literature II 26S**  
Building on the work of GER205HI, this course explores more complex literary texts in the original German. It thus provides a bridge to the other literature courses in the program. This course is required for majors and specialists.  
Prerequisite: GER205HI, or permission of the department
- GER310HI Topics in Contemporary German Culture 39S**  
Focus is on contemporary German culture as expressed through a variety of media.  
Prerequisite: GER300YI or equivalent as decided by the department
- GER324HI Dreams- Desires - Delusions 26S**  
These central themes of Romanticism are examined through reading texts by authors of the era.  
Prerequisite: GER205HI, or permission of the department
- GER325HI 19th Century German Literature 26S**  
An examination of German literary texts in their social and historical context.  
Prerequisite: GER205HI, or permission of the department
- GER327HI Deviance - Madness - Outsiders 26S**  
An analysis of the literary confrontation with deviance, madness, and the outsider.  
Prerequisite: GER205HI, or permission of the department
- GER331HI Kafka in Context 26S**  
Franz Kafka's texts situated within the literary, historical, and philosophical context of fin-de-siècle Prague and central Europe.  
Prerequisite: GER205HI, or permission of the department
- GER334HI Weimar Culture 26S**  
Expressionism, dada, Bauhaus, the 'Golden Age' in German film: an examination of literary and artistic movements in the era between World War I and Nazism.  
Prerequisite: GER205HI, or permission of the department
- GER335HI Writing Memory: 1945 to the Present 26S**  
An examination of post-World War II German literature and culture from "Zero Hour" through to contemporary debates about the Holocaust and its memorialization.  
Prerequisite: GER205HI, or permission of the department
- GER351HI Topics in German Cinema I 26S, 26P**  
This introduction to German Cinema will provide a historical perspective on German film and the innovations of German filmmakers. Students will engage with film language and the analysis of film.  
Prerequisite: GER205HI, or permission of the department
- GER354Y0 Special Topics Summer Course in Berlin**  
The topics depend on the instructor from year to year. Interested students can address questions to Woodsworth College. This course is taught in English and is open to students from other disciplines.  
Prerequisite: Permission of the department  
Recommended preparation: 100-level HIS/POL/GER course/ International or European Studies
- 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.
- GER360HI Intermediate Yiddish 39P**  
Review of basic grammar, stylistics, study of short literary texts. Conducted in Yiddish.  
Exclusion: GER360YI  
Prerequisite: GER260YI
- GER361HI Yiddish Literature and Culture in Translation 26S**  
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.
- GER362HI Soviet and Kosher: Jewish Culture in the Soviet Union 26S**  
Soviet Jewish culture between 1917 and 1941. Works in translation by Soviet Yiddish writers and poets, performances of central Yiddish theatres, and publications in central Yiddish periodicals will be analyzed as expressions of Soviet ideology and of ethnic identity.  
Recommended preparation: HIS208YI, 242HI, 250YI, or with permission of the department
- GER363Y Cultural History of East European Community 1800-2000 52S**  
This course examines how artistic works created by Jews portrayed and interpreted historical realities during that period. All artistic media will be examined.
- GER364HI Introduction to the History of Yiddish Cinema 26L, 26P**  
This course traces the history of Yiddish cinema from its beginnings in 1911 to the end of the twentieth century. There will be 2 hours viewing time and 2 hours lectures per week. Cross-listed with the Cinema Studies Program Innis College.
- GER370HI Business German I 39P**  
An introduction to the use of German in the professional/ business context. Emphasis on oral and written communication.  
Prerequisite: GER200YI or permission of the department  
Note: This course is required for the minor program in Business German.

**GER398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**GER371H0 Berlin Summer Internship**

A three week intensive internship in Berlin, focusing on work/ study and intercultural learning.

Prerequisites: good working knowledge of German and permission from the instructor.

**GER400HI Advanced German 39P  
(formerly GER400YI)**

For students with a firm grasp of German. Review of advanced features of the language. Emphasis on both oral and written communication. Introduction to aspects of stylistics.

Exclusion: GER403HI, GER400YI

Prerequisite: GER300YI or permission of the department

**GER410HI Topics in German 26S  
Intellectual History**

An examination of key moments and themes in German intellectual history from the Enlightenment to the present.

Prerequisite: GER305HI, or permission of the department

**GER411HI Introduction to Critical Theory 26S**

Current debates in critical theory. This course will familiarize students with some of the key issues in critical theory today, and provide the background to these debates.

Prerequisite: Permission of the department

**GER412HI Modernity and Its Discontents 26S**

History of various concepts of modernity. This course traces theories of modernity in German literature, culture and theory.

Prerequisite: GER305HI, or permission of the department

**GER420HI The Age of Goethe 26S**

An examination of Goethe and his contemporaries as they respond—through drama, prose, and poetry—to the challenges of changing times.

Exclusion: GER420YI, 460HI, 460YI

Prerequisite: GER305HI, or permission of the department

**GER421HI Gender and Identity 26S**

With the representation of gender as its focus, this course will examine key works of modern German literature, where typical themes range from love, lust and treachery to masochism, cross-dressing and other forms of gender trouble.

Prerequisite: GER305HI, or permission of the department

**GER422HI Focus On Berlin 26S**

An exploration of the cultural development of Berlin through literature, from the Bismarckian era through the Weimar Republic and the Third Reich to the construction of the Berlin Wall and German unification.

Prerequisite: GER305HI, or permission of the department

**GER423H Different Voices 26S**

Different topics and a variety of different authors; to be decided from year to year.

Prerequisite: GER305HI or permission of the department

**GER 424HI Writing the Self in Poetry 26S**

An exploration of representations and articulations of the self in German poetry.

Prerequisite: GER 305HI or permission of the department.

**GER426HI Middle High German 39S**

An introduction to the language, literature and civilization of Medieval Germany.

Prerequisite: GER300YI/GER205HI or permission of the department

**GER429HI Topics in Medieval 26S  
German Literature**

A study of specific topics in Medieval Literature.

Prerequisite: GER426HI or permission of the department

**GER 430HI Topics in German Literature 26S  
and Culture**

An open course which explores very specific aspects of German literature and culture. It may change from year to year.

Prerequisite: GER 305HI or permission of the department.

**GER462HI Advanced Yiddish 26P**

Advanced reading, writing, vocabulary and conversation. Study of poetry, short fiction, and memoir literature by leading authors. Selected advanced grammatical topics presented in conjunction with the study of texts. Conducted entirely in Yiddish.

Exclusion: GER461YI

Prerequisite: GER360YI or permission of the department

**GER470HI Business German II 39P**

Intensive development of the linguistic skills needed in the context of a German business environment.

Prerequisite: GER370HI/370YI or permission of the department. This course is required for the Business German minor program.

**GER490HI Independent Study 26S**

A reading and research project in Germanic literature or linguistics.

Prerequisite: Permission of Department to be obtained by May 1st for the Fall Term; by November 1st for the Spring Term.

**GER491YI Individual Studies 52S**

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. All project proposals should be submitted by June 1, 2007.

**Global Health: see Life Sciences:  
Human Biology**

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**Greek: see Classics**

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# History

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## Faculty

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### University Professor Emeritus

J.M. Beattie, MA, Ph D, FRSC (U)  
J.M. Bliss, MA, Ph D, FRSC  
J.M.S. Careless, OC, AM, Ph D, FRSC (V)

### Professors Emeriti

R.D. Accinelli, MA, Ph D  
C.C. Berger, MA, Ph D, FRSC  
W.C. Berman, MA, Ph D  
P. de B. Brock, MA, Ph D, D Phil  
R.C. Brown, MA, Ph D, FRSC (U)  
J.S. Brownlee, MA, M Phil  
J.C. Cairns, MA, Ph D  
W.J. Callahan, MA, Ph D, FRHS (V)  
R.V. Colman, MA  
J. Dent, BA, Ph D (I)  
H.L. Dyck, MA, Ph D  
J.M. Estes, MA, Ph D (V)  
M.G. Finlayson, MA, Ph D (U)  
W.A. Goffart, AM, Ph D, FRHS, FRSC  
P.F. Grendler, MA, Ph D  
R.J. Helmstadter, MA, Ph D (V)  
D.C. Higgs, MA, Ph D, ChPA (U)  
J.N. Ingham, MA, Ph D  
M. Israel, MA, Ph D  
J.L.H. Keep, BA, Ph D  
M.A. Klein, MA, Ph D (N)  
J. Kornberg, AM, Ph D (N)  
T.O. Lloyd, MA, D Phil  
J.S. Moir, MA, Ph D (University of Toronto Scarborough)  
D.P. Morton, MA, Ph D (University of Toronto Mississauga)  
H.I. Nelson, MA, Ph D  
W.H. Nelson, MA, Ph D (U)  
D.L. Raby, BA, Ph D (University of Toronto Mississauga)  
A. Robson, MA, Ph D (V)  
R.A. Spencer, MA, D Phil (T)  
S. Van Kirk, MA, Ph D  
N.K. Wagle, MA, Ph D  
P.C.T. White, MA, Ph D (T)  
N.P. Zacour, MBE, MA, Ph D

### Associate Professor and Chair of the Department

L.J. Abray, MA, M Phil, Ph D

### Associate Professor and Associate Chair

A.D. Hood, MA, Ph D

### Professors

S. Aster, MA, Ph D, FRHS (University of Toronto Mississauga)  
K.R. Bartlett, MA, Ph D (V)  
D. Bergen, MA, Ph D  
P. Blanchard, BA, Ph D  
R. Bothwell, MA, Ph D, FRSC (T)  
W. Dowler, MA, Ph D (University of Toronto Scarborough)  
M. Eksteins, B Phil, D Phil (University of Toronto Scarborough)

M. Gervers, MA, PhD (University of Toronto Scarborough)  
J.W. Goering, MA, Ph D  
A. Greer, MA, Ph D  
R. Halpern, MA, Ph D  
R.E. Johnson, BA, Ph D (University of Toronto Mississauga)  
J. Kivimäe, BA, Ph D  
T. Lahusen, MA, Ph D  
L.S. MacDowell, M Sc (Econ), Ph D (University of Toronto Mississauga)  
M. MacMillan, B Phil, D Phil (T)  
P.R. Magocsi, MA, Ph D, FRSC  
M.R. Marrus, MA, Ph D, MSL, FRHS, FRSC (T)  
M.G. McGowan, MA, Ph D (SM)  
M.D. Meyerson, MA, Ph D  
K. Mills, MA, D Phil  
A.C. Murray, MA, Ph D (University of Toronto Mississauga)  
D.J. Penslar, MA, C Phil, Ph D  
R.W. Pruessen, MA, Ph D  
J. Retallack, BA, D Phil  
I. Robertson, MA, Ph D (University of Toronto Scarborough)  
A. Rossos, MA, Ph D  
P.F.W. Rutherford, MA, Ph D  
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D. Smyth, BA, Ph D, FRHS (T)  
M. Tavakoli-Targhi, MA, Ph D (University of Toronto Mississauga)  
L. Viola, MA, Ph D  
M. Wayne, MA, Ph D  
D.A. Wilson, MA, Ph D, FRHS (SM)

### Associate Professors

E. Brown, MA, M Phil, Ph D (University of Toronto Mississauga)  
I. Cochelin, MA, Ph D  
S. Hawkins, MA, Ph D  
F. Iacovetta, MA, Ph D (University of Toronto Scarborough)  
J. Jenkins, MA, Ph D  
E.T. Jennings, MA, Ph D  
C. Keil, MA, Ph D (I)  
L. Loeb, M MST, Ph D  
J. Mori, BA, Ph D  
M. Murphy, BA, Ph D  
N. Musisi, MA, Ph D (N)  
J. Noel, MA, Ph D (University of Toronto Mississauga)  
I. Radforth, MA, Ph D  
S. Rockel, MA, Ph D (University of Toronto Scarborough)  
G. Silano, MA, Ph D (SM)  
A. Smith, MA, Ph D  
C. N. Terpstra, MA, Ph D  
B. Todd, MA, D Phil  
W. Wark, MA, Ph D  
P. Wróbel, MA, Ph D

### Assistant Professors

D. Bender, MA, Ph D (University of Toronto Scarborough)  
R. Birla, M Phil, Ph D  
H. Bohaker, MA, Ph D  
P. Cohen, Ph D

C. Chin, MA, Ph D  
N. Everett, BA, Ph D  
J. Hanssen, D Phil (University of Toronto Mississauga)  
M. Kasturi, MA, M Phil, Ph D (University of Toronto Mississauga)  
R. Kazal, MA, Ph D (University of Toronto Scarborough)  
T. Lam, Ph D (University of Toronto Mississauga)  
M.J. Newton, BA, D Phil  
S. Penfold, MA, Ph D  
N. Rothman, MA, Ph D (University of Toronto Scarborough)  
A. Tambe, MS, Ph D  
N. Tran, BA, Ph D  
S. Varani, MA, Ph D (University of Toronto Mississauga)  
D. Williams, MA, Ph D (University of Toronto Mississauga)  
R. Wittmann, MA, Ph D (University of Toronto Mississauga)

History is both an art and a science. Historians study the past to understand it in its own terms, to gain insight into how our world has developed, and in order to influence the present. Historical inquiry is a response to the need for information and an understanding of the broad patterns of social, economic, cultural and political development.

The study of history is a crucial part of any liberal arts program. To understand our own society and the forces for change that are propelling it towards an uncertain future, it is necessary to understand something of the past. Every political institution, social value and economic custom is itself the result of past change and is simultaneously being transformed. It is as difficult for us to appreciate our own society without some sense of how different things were in the past as it is for individuals to understand themselves without the aid of personal and family memory.

The Department of History offers a wide range of courses that are tailored to meet the needs of students at every stage of their undergraduate careers. The 100-series courses are designed for students who are new to the University. They cover a wide chronological period and a wide geographical area. The 200-series courses are designed to introduce students to specific national or geographic histories over a broad period of time. Although they are designated as 200-series courses they are open to first-year students, have no prerequisites, and students without previous university experience should be able to complete them without difficulty. The 300-series courses, not open to first-year students, usually deal with more specialized subject-matter and frequently have prerequisites. The 400-series courses represent the culmination of an undergraduate's study of history and consist of seminars with a maximum enrolment of 14.

There are courses at most levels in American, Asian, African, and Latin American, British, Canadian, East European, Russian, European, International Relations and Medieval history. The fifty-five full-time professional historians who constitute this Department offer a greater variety of courses in history than can be found at any other university in Canada, and to study with any of them is certain to be an enriching experience.

More detailed information concerning the department, history programs and particular courses can be found on our website: [www.chass.utoronto.ca/history](http://www.chass.utoronto.ca/history). There is a History Students' Association in the Department and there is student

participation in the Department meetings and major standing committees.

Undergraduate Administrator:  
Ms. Louise Nugent, Room 2074, Sidney Smith Hall (416-978-3362)

Enquiries:  
Sidney Smith Hall, 100 St. George Street, Room 2074 (416-978-3363)

## History Programs

Students may also use certain NMC history courses to fulfill Department of History program requirements (see History website).

## History (Arts program)

### Specialist program:

(10 full courses or their equivalent)

Students may enrol in the Specialist Program in History after completing at least four courses including two HIS courses, one of which must be a 100-level HIS course. A mark of at least 73% in two HIS courses is required.

First Year:

A 100-series HIS course; in addition, students may take one 200-series HIS course

Higher Years:

Additional HIS courses to a total of ten\*, meeting the following requirements:

1. At least five 300/400-series courses including one and a half 400-series HIS courses
2. One course from each of the following divisions\*
  - I. Asia/Africa/Middle East
  - II. Canada/United States/Latin America/Caribbean
  - III. Europe
3. One pre-modern course\*

\*The History website identifies pre-modern courses, HIS substitutes, and indicates courses satisfying the divisional requirements. Specialists may substitute history courses taught elsewhere in the faculty for up to three of the HIS courses. These substitutes may also be used to fulfill Items 1 through 3 of the specialist program.

### Major program:

(7 full courses or their equivalent)

Students may enrol in the Major Program in History after having completed four full courses or their equivalent, including one 100-level HIS course; a minimum grade of 65% in this or another HIS course is required.

First Year:

A 100-series HIS course; in addition, students may take one 200-series HIS course

Higher Years:

Additional HIS courses to a total of seven\*, meeting the following requirements:

1. At least two 300/400-series courses (in addition to item 1 above)
2. At least one course from each of the following divisions\*:
  - I. Asia/Africa/Middle East
  - II. Canada/United States/Latin America/Caribbean
  - III. Europe
3. One pre-modern course\*

# History

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\*The History website identifies pre-modern courses, HIS substitutes, and indicates courses satisfying the divisional requirements. Majors may substitute history courses taught elsewhere in the faculty for up to two of the HIS courses. These substitutes may also be used to fulfil items I through 3 of the major program.

## Minor program:

(4 full courses or their equivalent)

Students may enrol in the Minor Program in History after having completed four full courses or their equivalent. Completion of a 100-series HIS course is recommended before enrolment.

First Year:

A 100-series HIS course

Higher Years:

Additional HIS courses to a total of four\*, including at least one 300/400-series course

\*As many as two courses chosen from a list of history courses taught elsewhere in the faculty may be substituted for HIS courses for the HIS Minor program. Substitutes may also be used to satisfy the 300/400-series course requirement. A list of HIS substitutes is found on the History website.

## History and Political Science (Arts program)

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### Specialist program:

(14 full courses or their equivalent)

Students may enrol in the Specialist Program in History and Political Science after completing at least four full courses or their equivalent and fulfilling the following requirements: two HIS courses, one of which must be a 100-level HIS course; grades of at least 73% in two HIS courses; one POL full course or the equivalent in half courses with a mark of at least 67%; a CGPA of at least 2.0. Students applying to enrol after Second Year must have completed at least eight full courses or their equivalent and fulfill the following requirements: two HIS courses and two POL full courses or the equivalent in half courses with a mark of at least 70% in each; and a CGPA of at least 2.3.

### History (7 courses):

First Year:

A 100-series HIS course; in addition, students may take one 200-series HIS course

Higher Years:

Additional HIS courses\* to a total of seven, meeting the following requirements:

- I. Courses must come from at least two of the following divisions\*:
  - I. Asia/Africa/Middle East
  - II. Canada/United States/Latin America/Caribbean
  - III. Europe
2. One 300/400-series course, and one additional 400-series course
3. Two HIS courses must correspond in area and theme to two POL courses (list available in the History and Political Science Departments or Department Website)

\*The History website identifies pre-modern courses, HIS substitutes, and indicates courses satisfying the divisional requirements. Specialists may substitute history courses taught elsewhere in the faculty for up to three of the HIS courses.

## Political Science

(7 courses including at least one 300+ series course and one 400-series course)

NOTE:

At least one course in Canadian politics must be completed. The Canadian politics requirement will be satisfied by only POL 103Y1/214Y1.

First Year:

POL 103Y1/105Y1/108Y1

Higher Years:

1. POL 200Y1
2. Two full courses from the following: POL 201Y1/(203Y1/207Y1)/208Y1/214Y1/215Y1
3. Three additional POL courses

## History Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all HIS courses are classified as HUMANITIES courses (except HIS 103Y1, which has NO distribution requirement status).

### HUMI99H1/Y1 First Year Seminar

52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

## 100-Series Courses

Note:

All 100-series HIS courses are mutually exclusive. First-Year students may take 200-series courses.

### HIS103Y1

#### Statecraft and Strategy: An Introduction to the History of International Relations

52L, 26T

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: HIS104Y1, 106Y1, 107Y1, 109Y1

HIS 103Y1 does not count as a distribution requirement course in any category

### HIS104Y1

#### Ten Days that Shook the World

52L, 26T

The events since 1600, the consequences of which continue to resonate through primary documents, historical additional reconstructions, students are exposed to the processes by which the past is given meaning. Students are encouraged to be aware of the impact of events and be sensitive to the interconnectedness of the past.

Exclusion: HIS103Y1, 106Y1, 107Y1, 109Y1

### HIS106Y1

#### Making the Americas, c. 1250-1780

52L, 26T

North and South America and the Caribbean from Columbus to the American Revolution: aboriginal cultures, European

exploration, conquest and settlement, the enslavement of Africans, the ecological impact of colonization.

Exclusion: HIS103Y1, 104Y1, 107Y1, 109Y1

**HIS107Y1 Approaches to East Asian History 52L, 26T**

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: EAS204Y1, HIS103Y1, 104Y1, 106Y1, 109Y1

**HIS109Y1 The Development of European Civilization, 1350-1945 52L, 26T**

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: HIS103Y1, 104Y1, 106Y1, 107Y1

## 200-Series Courses

**HIS202HI Gender, Race and Science 26L, 10T**

This course examines scientific ideas about human difference from the 18th-century to the present. It explores how scientists and their critics portrayed the nature of race, sex difference, and masculinity/femininity in light of debates over nation, citizenship, colonialism, emancipation, knowledge and equality. The course will also introduce students to the uses of gender and race as analytic categories within the practice of history. While the course draws much of its subject matter from the history of the United States, it also explores selective issues in European and colonial contexts.

**HIS208Y1 History of the Jewish People 52L, 20T**

An introduction to the history of the Jews throughout the world over the past two thousand years.

Recommended preparation: HIS103Y1/108Y1/109Y1

**HIS220Y1 The Shape of Medieval Society 52L, 20T**

Economic, political, religious, and educational ideas and institutions of the Middle Ages, from the late Roman period to the fifteenth century.

**HIS232Y1 The British Imperial Experience 52L, 20T**

The nature of European imperialism; expansion and development of the British Empire; Imperial strategy; the impact of war and nationalism; thoughts on the Commonwealth.

**HIS241HI Europe in the Nineteenth Century, 1815-1914 26L, 12T**

An introduction to modern European history from Napoleon to the outbreak of World War I. Important political, economic, social, and intellectual changes in France, Germany, Austria-Hungary, Italy, and other countries are discussed: revolution of 1848, Italian and German unification, racism and imperialism, the evolution of science, art, and culture, labour protest, and the coming of war.

Recommended preparation: HIS103Y1/109Y1

**HIS242HI Europe in the 20th Century 26L, 12T**

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.

**HIS243HI Early Modern Europe, 1450-1648 26L, 10T**

The political, social, economic, and intellectual history of continental Europe. The Renaissance, the Reformation, Counter-reformation, growth of the territorial monarchies, the religious wars.

**HIS244HI Early Modern Europe, 1648-1815 26L, 10T**

The political, social, economic, and intellectual history of continental Europe. Development of royal absolutism, social change and the crisis of the ancient regime, the Enlightenment, the French Revolution, the Napoleonic era.

**HIS245Y1 Women in European History 52L, 20T**

An introductory survey tracing women's participation in the political, economic, intellectual, and social history of Europe from the High Middle Ages to the Twentieth Century.

**HIS250Y1 History of Russia, 860-1917 52L, 20T**

This course is an introductory survey that examines the political, social, and cultural developments that shaped the Russian empire from the settlement of Kiev in the 9th century to the collapse of the Romanov dynasty in 1917.

**HIS251Y1 History of East Central Europe 52L, 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.

**HIS263Y1 Introduction to Canadian History 52L, 20T**

An introductory survey of Canadian History since the 16th century with extra focus on major themes and problems.

Exclusion: HIS262Y1

**HIS271Y1 American History Since 1607 52L, 20T**

A survey of the economic, social, cultural, and political history of the United States from the colonial era to present times.

**HIS280Y1 History of China 52L, 20T**

A broad overview of the history of China from earliest times to the present. The emphasis is on how the meaning of China and the Chinese people has changed through history.

**HIS281Y1 History of Modern Japan 52L, 20T**

Political, military, social, economic, and intellectual history of Japan from beginning of Tokugawa period (1603) to the present. Emphasis on the long term modernization and democratization of Japan, and passage through imperialism and militarism to peace.

Exclusion: EAS223HI/223Y1/HIS281HI

**HIS282Y1 History of South Asia 52L, 20T**

An introductory survey addressing major themes in the history of South Asia, examining South Asian political economy, social history, colonial power relations and the production of culture. Emphasis is on the period after 1750, particularly the study of colonialism, nationalism, and postcolonial citizenship and modernity.

**HIS283Y1 Southeast Asian Crossroads 52L, 20T**

This course surveys the historical experiences of the states that constitute present-day Southeast Asia and examines how long

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term socio-economic trends affected the daily lives of Southeast Asians. Lectures introduce the major themes while weekly readings explore the major themes of the course: “state” structure; cultural commonalities; ethnic, class and gender relations; religious practice and trade.

**HIS291Y1 Latin America: The Colonial Period 52L, 20T**

The evolution of Spanish and Portuguese America from pre-Columbian civilizations to the wars of independence.

**HIS292Y1 Latin America: The National Period 52L, 20T**

A survey of Latin American history from the wars of independence to the present day.

**HIS294Y1 Caribbean History & Culture 52L, 22T**

An exploration of changes in the structure of Caribbean society beginning in 1492, including European contact, the conquest of native peoples, the emergence of large plantations, the impact of slavery, patterns of resistance and revolt and the changes brought about by emancipation.

**HIS295Y1 Introduction to African History (formerly HIS295H1) 52L, 20T**

An introduction to the methodological and epistemological issues of African history—that is to say, questions about how and what we know about the African past are examined. Particular attention is paid to the differences in academic understanding of African history and African perceptions of the past. Topics include theories of diffusion, the importance of oral sources, and the interpretation of myths.

**HIS296Y1 Black Freedom 52L, 20P**

This course explores the profound contribution of people of African descent – from Olaudah Equiano to Angela Davis – to the history of the idea and practice of freedom in the West. Black writers and historical actors have been at the vanguard of re-conceiving, implementing, and realizing the Enlightenment project of freedom.

Exclusion: NEW296Y1

**HIS299Y1 Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

## 300-Series Courses

**Note:**

First-year students are not permitted to enrol in 300-series HIS courses.

**HIS301Y1 Imperial Spain 52L**

This course treats the political, social, and religious history of Spain and its empire ca. 1450-1714, including the history of colonial Latin America.

Recommended preparation: HIS243H1

**HIS302H1 Material Culture in Victorian Britain (formerly HIS302Y1) 26L**

An examination of the products of the first and second industrial revolutions in Victorian England. This course focuses on the cultural history of commercialization and consumerism.

Exclusion: HIS302H1

Recommended preparation: HIS239H1/339Y1

**HIS303Y1 The Mediterranean, 600-1700: Crusade, Colonialism, Diaspora 26L**

The course treats contact and conflict between Christians, Muslims, and Jews in the premodern Mediterranean world. Within the framework of broad political and economic developments, the course explores a range of topics, including holy war, slavery, religious polemics, colonialism, the commerce in goods and ideas, and ethnic relations.

Recommended preparation: HIS220 or NMC273 or some medieval history

**HIS 304H1 Topics in Middle East History 26L**

An in-depth examination of Middle East historical issues.

Content in any given year depends on instructor. See History Website for more details.

**JHP304Y1 Ukraine: Politics, Economy and Society (formerly JHP 204Y) 52L**

The history of Ukraine from earliest times to the present. Economic, political, and cultural movements; Kievan Rus', Polish-Lithuanian Commonwealth, Cossack state, national revival, twentieth century statehood, and unification. As this course is designed as an introductory course, the professor welcomes first- and second-year students to enroll, as well as upper-level students. (Given by the Departments of History and Political Science)

Exclusion: JHP204Y

**HIS305H1 Popular Culture and Politics in the Modern Caribbean 26L**

This course examines the connections between popular culture and politics in the modern Caribbean. Aspects of popular culture such as sport, religion, and social constructions of gender will be discussed. The impact of post-war migration, race and racial nationalism and the upheavals of the 1960s on popular culture in the Caribbean will also be themes.

Prerequisite: HIS294Y1

**HIS306H1 Culture, Society and Gender in England, 1560-1730 (formerly HIS306Y1) 26L**

Some of the main themes in English political, social, religious and intellectual history in the 17th century: the origins, character, and consequences of the English Civil War, the nature and effects of social change, and the changing role of religious forces in society.

Exclusion: HIS306Y1

Recommended preparation: HIS238H1

**HIS309H1 The European Reformations 39L**

What happens when a culture changes its religious organization and beliefs? Social and intellectual upheavals beginning in fifteenth century Europe created the split between catholic and protestant Christians and reshaped the spiritual and political landscape of sixteenth century Europe. Issues covered include religion and politics, toleration, gender, popular piety, class.

Prerequisite: HIS 243H /VIC 240Y or permission of the instructor

**HIS311Y1 Introduction to Canadian International Relations 52L, 13T**

Canadian international affairs in a broader context. Anglo-American as well as Canadian-American relations; the European background to questions such as the League of Nations,



appeasement and rearmament, which directly affected Canada without this country being consulted.

Recommended preparation: A course in Canadian history or politics

**HIS312HI Immigration to Canada 26L**

The peopling of Canada by immigrant groups from the 1660s to the 1970s. Immigration and multiculturalism policies; migration and settlement; ethnic communities; relations with the host society.

Recommended preparation: HIS262Y1/263Y1

**HIS313HI Canadian Labour and the Left 26L  
(formerly HIS313Y1)**

Canadian labour history from political action to collective bargaining in the period from Confederation to the present.

Prerequisite: ECO244Y1/HIS262Y1/263Y1/WDW244HI/Y1

Exclusion: HIS 313Y1

**HIS314YI Quebec and French Canada 52L, 13T**

A general survey tracing the political, social, and cultural development of a distinct society in Quebec and the rise of self-conscious French-speaking communities elsewhere in Canada.

**HIS315HI Narratives of "Viet Nam" 26L**

This course introduces students to the multiple ways in which the diverse populations inhabiting the geographic space of "Viet Nam" construct their histories. Perspectives from Chinese, Charn, ethnic minority and Vietnamese majority populations will be explored.

**HIS316HI History of Advertising 39L**

The rise of advertising as an economic, moral, and cultural force in the 19th and 20th centuries. Attention to advertising as a form of communication, the role of the mass media, stereotyping and the culture of consumption. Majority of course material deals with the experiences of the United States and Canada, focusing on the period after 1945.

Recommended preparation: HIS262Y1/263Y1/271Y1

**HIS317HI Modern Germany 1914 to the Present 26L  
(formerly HIS317Y1)**

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: HIS241HI, 242HI

Exclusion: HIS317Y1

**HIS318YI Canadian Environmental History 52L**

A survey of major themes in the history of change in the Canadian environment from the 15th century to the present which include exploration, resource exploitation, settlement, industrialism, conservation and modern ecology.

Prerequisite: Eight full courses or equivalent

**HIS319HI Renaissance France and the Wars of Religion, 1483-1610 26L**

Considers the expansion of the French state at the close of the 100 Years War, cultural and social change during the Renaissance, religious change and the Protestant Reformation, the emergence of religious conflict and the Wars of Religion. A range of primary sources and historiographical perspectives will be considered.

Prerequisite: HIS243HI/309HI/388HI/443HI or permission of instructor

**HIS320YI Early Medieval Europe, c. 300-1100 52L**

Empire and reconstruction of society in the early Middle Ages, with emphasis on the Christian church, literate culture, and social institutions. The focus is Western Europe, but Islam and the Byzantine Empire are not disregarded.

Recommended Preparation: HIS220Y1

**HIS322YI The High Middle Ages 52L**

Chronological survey of the history of medieval Europe from 1100 to approximately 1450. The three main topics are: the formation of the modern states, the impact of urban development, and the evolution of spirituality.

Prerequisite: HIS220Y1

**HIS323HI Rites of Passage and Daily Life in the Middle Ages (formerly HIS323Y1) 26L**

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.

Prerequisite: A course in medieval history such as HIS220Y1

Exclusion: HIS323Y1

**HIS324YI Science, Technology, and the Development of Modern Culture 52L**

Explores the impact of scientific ideas and new technologies on the development of modern culture and on notions of progress since 1800. Topics include Romantic science, degeneration, new media, knowledge and power, and are explored through scientific and literary texts and diverse secondary sources.

Recommended preparation: Background in European history or history of science strongly recommended

**HIS325HI 18th Century Imperial Russia 26L  
(formerly HIS325Y1)**

This course focuses on the history of eighteenth century Russia, tracing the development of its political institutions, social and economic structures and cultural values. Examining the reign of Peter I, the age of Empresses, and Catherine the Great, we see not only internal changes within the Russian Empire itself, but also its emergence as a European power.

Exclusion: HIS325Y1

Prerequisite: HIS250Y1/permission of instructor

**HIS327HI America and the World to 1900 26L**

This course examines major ideas, events, and developments in American foreign policy before 1900. Included are relations with Great Britain, independence, hemispheric issues, commercial and landed expansion, and the rise of imperialism.

Recommended preparation: HIS 271Y1

**HIS328YI Modern China since 1800 52L**

An examination of political, social and economic developments in Chinese history from 1800 to the present day. Main topics are 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.

Exclusion: JMC201Y1

Prerequisite: HIS280Y1/EAS102Y1

Recommended preparation: HIS380Y1

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## **HIS329HI Globalization and History 26L**

This course will explore ways in which “globalization” is a profoundly significant and deeply rooted historical process. Although emphasis will be placed on the 19th and 20th centuries, some of the economic, political, cultural, and technological forces shaping the past millennium will also be considered.

Recommended Preparation: HIS 103Y1

## **HIS330HI Germany from Frederick the Great to the First World War (formerly HIS317Y1) 26L**

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, local and regional identities, workers’ culture, avant-garde culture, nationalism, anti-Semitism, colonialism, and the Great War of 1914-18.

Prerequisite: EUR200Y1/HIS241H1

Exclusion: HIS317Y1

## **HIS331HI Modern Baltic History (formerly HIS331Y1) 26L**

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: HIS250Y1/251Y1

Exclusion: HIS331Y1

## **HIS332HI Crime and Society in England, 1500-1800 (formerly HIS332Y1) 26L**

The changing nature of crime and criminal justice in early-modern England; the emergence of modern forms of policing, trial and punishment.

Exclusion: HIS332Y1

Prerequisite: Successful completion of 8 full credits, including one full HIS credit

Recommended preparation: HIS238H1

## **HIS333YI Revolution in 20th Century Latin America 52L**

An examination of the impact of 20th-century Latin American revolutions on the lives of their participants.

Exclusion: HIS333H1

Prerequisite: GGR249H1/HIS292Y1/IAS200Y1/POL201Y1/305Y1

## **HIS334YI 19th and 20th Century Central Europe and the Great Powers 52L**

The diplomatic, economic and military activities of Russia, Germany, Austria, France, Great Britain and the U.S. vis a vis Central Europe. Russian and German expansion, partitions of Poland, disintegration of the Ottoman Empire, the Napoleonic and World Wars, political systems created in Vienna, Versailles and Yalta, the Cold War and the disintegration of the Soviet outer empire.

Prerequisite: EUR200Y1/HIS251Y1/permission of the instructor

## **HIS335HI Soviet Cultural History 26L**

This course explores Russian culture - art, architecture, film and literature - from 1917 to the post-Soviet present. Readings and screenings trace the relation between culture, history, and revolution from the Russian Avant-Garde and proletarian

culture to socialist realism, and from Krushchev’s thaw to examples of Soviet “postmodernism”.

Prerequisite: HIS250Y1

## **HIS336HI Medieval Spain 39L**

This course emphasizes the interaction of Christians, Muslims, and Jews, and the cultural and political distinctiveness of Castile and Aragon in the development of state, society, and culture in medieval Spain.

## **HIS337HI Culture, Politics and Society in 18th Century Britain (formerly HIS337Y1) 52L**

Major themes in late seventeenth and eighteenth century British history with a thematic focus on intellectual, cultural and social developments. Topics include the English “urban renaissance”, the birth of a consumer society, the Scottish Enlightenment and the early stages of the British industrialisation.

Exclusion: HIS337Y1

Recommended preparation: HIS109Y1, EUR200Y1, HIS238H1, 239H1

## **HIS338HI The Holocaust : Nazi Germany, Occupied Europe and the Destruction of European Jewry (formerly HIS338Y1/398Y1) 52L, 12T**

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.

Exclusion: HIS398Y1/338Y1

Prerequisite: Completion of six undergraduate full-course equivalents

Recommended preparation: A course in modern European history

## **HIS339YI English History in the 19th Century 52L**

Major aspects of English history from the end of the 18th century to the death of Queen Victoria: the Industrial Revolution, the rise of parliamentary democracy, the role of social class, the development of modern cities, the emergence of the modern state, Victorian religion, the Victorian family, the role of aristocracy in an industrialized society.

Recommended preparation: EUR200Y1/HIS238H1, 239H1

## **HIS340HI A Survey of Australian History 26L**

This course introduces students to some of the principal themes in the history of Australia since well before the British occupation in 1788. Topics covered include the dispossession and recent partial re-possession of land by the indigenous population, the consequences of its creation as a convict colony, the creation of the Labour Party and later political and social developments.

Prerequisite: one full-year HIS course or equivalent

## **HIS341YI Enlightenment Europe, 1660-1789 52L**

The comparative intellectual, cultural and social history of western Europe with particular focus on France, England, Scotland and Germany. Examines the impact of Enlightenment ideas on European attitudes to race, gender, politics, economics and religion through the study of the press, the salons, voluntary bodies and consumer culture.

Recommended preparation: HIS109Y1/220Y1/238H1/243Y1/244Y1/245Y1/EUR200Y1

- HIS342HI Pre-Petrine Russia: Russia Before 1700 26L**  
 This course examines modern Russia's political predecessors, their contacts with Byzantium, Western Europe, and the Mongol Empire, and resulting cultural, religious, and social changes. Prerequisite: HIS250YI
- HIS343YI History of Modern Espionage 52L**  
 An introduction to the historical origins and evolution of modern intelligence services. Topics to be studied include: intelligence in wartime; technological change; intelligence failures; covert operations; counter-espionage; the future of spying. The impact of the popular culture, both in fiction and film is also examined. Recommended preparation: HIS103YI or an equivalent introduction to modern international relations
- HIS344YI Conflict and Co-operation in the International System Since 1945 52L**  
 An examination of the conduct and consequences of international politics in an atomic/nuclear age when the stakes of the "Great Game" were not just the fates of states and nations, but the survival of humanity itself. The diplomatic, strategic and economic aspects of international relations will all receive appropriate elucidation. Recommended preparation: EUR200YI/HIS103YI/241HI, 242HI
- HIS345HI History and Film 26L, 13P**  
 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 full courses in history or permission of instructor  
 Recommended preparation: INI212YI
- HIS347HI History of Modern Chinese Foreign Relations 26L**  
 The history of Chinese foreign relations from 1842 to the present day, with emphasis on the foreign relations of the People's Republic since 1949. Topics include: imperialism in China, Sino-Soviet relations; the Deng era rapprochement with the West; contemporary issues such as Hong Kong, Taiwan, regional security. Prerequisite: EAS102YI/HIS280YI/JMC201YI  
 Recommended preparation: HIS103YI
- HIS348HI Topics in Gender History 26L**  
 An in-depth examination of issues in gender history. Content in any given year depends on instructor. See History website for more details.
- HIS349HI The British Search for Identity: 1800 to the Present (formerly HIS239HI) 26L**  
 An introduction to the history of modern England with emphasis on the search for identity with reference to the nation, the crown, class, gender, age, political parties, race and ethnicity. Exclusion: HIS239HI
- HIS350YI The Social History of the Family 52L**  
 How childrearing has altered across the ages, whether the couple is held together by "romance" or "property", and how the family is connected to the outside community. Changes in the size of families, in the composition of the household, and in the roles of women as mothers and wives. Material is included from both North America and Europe, and ranges from the 17th century to the present.
- HIS351YI History of Twentieth-Century Russia 52L**  
 A survey of the history of Twentieth-Century Russia. The social, economic, and political development of Twentieth-Century Russia, with an emphasis on the Russian Revolution and Stalinism. Stress is placed on modern historiographical issues. Recommended preparation: HIS250YI/POL204YI
- HIS352HI Secularism and Strife: Modern Jewish Politics and Culture 26L**  
 A survey of Jewish political life from c. 1880 to 1948, with emphasis on Zionism and origins of the state of Israel. Exclusion: HIS356YI  
 Recommended Preparation: one course in European, Middle Eastern or Jewish history
- HIS353YI Poland: A Crossroads of Europe 52L**  
 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: HIS251YI/permission of the instructor
- HIS354YI Men, Gender and Power in Europe from the Renaissance to the French Revolution (formerly HIS399HI, 399YI) 52L**  
 An investigation of how ideas of masculinity and gender roles shaped the exercise of private and public power in early modern Europe. Exclusion: HIS399HI, 399YI
- HIS355HI Crime and Society in England Since 1800 26L**  
 Crime and criminal justice in England in the industrial age; the relationship of crime, society, and economy. Prerequisite: Successful completion of 8 full credits, including one full HIS credit  
 Recommended preparation: HIS332HI and a 200-series HIS course
- HIS356HI Zionism and Israel (formerly HIS356YI) 26L**  
 Origins of Jewish nationalism in 19th-century Europe; creation of the Zionist political movement; varieties of Zionist ideology; Zionist diplomatic and state-building activity; conflict with the Palestinian Arabs; the establishment of the state and its development since 1948. Exclusion: HIS356YI  
 Recommended preparation: A course in modern European, Jewish or Middle Eastern history

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<p><b>HIS357YI    A Social History of Renaissance Europe (formerly HIS357HI)    52L</b></p> <p>A social history of the 15th and 16th centuries set against the cultural and political background. Emphasis on changes in customs and living conditions resulting from economic, legal, intellectual, and religious developments of the period. Recommended preparation: A course in Renaissance or Early Modern European history Exclusion: HIS357HI</p>	<p><b>HIS366YI    Black Canadian Women's History    52L</b></p> <p>This course examines, by highlighting select themes and topics, African Canadian women's history. Such themes and topics include culture, sexuality, slavery, migration, Black women's activism, the rise of a female voice through writing and publishing, spirituality, community building, nation building, identity, and employment strategies. I take the position that Black Canadian women's history is informed by the historical processes of the African Diaspora, and African American history. Recommended preparation: HIS 263YI/360YI or some background in Women's Studies</p>
<p><b>HIS359HI    Regional Politics and Radical Movements in the 20th Century Caribbean    26L</b></p> <p>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: HIS294YI</p>	<p><b>HIS367HI    History of Images    26L, 13P</b></p> <p>The apparatus, the character, and the significance of an increasing volume of images, in particular of the body, since 1800 in Europe and North America. Introduction to concerns of cultural history: power and knowledge; self and identity; gender and sexuality; class, age, and race; and the pursuit of pleasure. Recommended preparation: A course in modern European or American history</p>
<p><b>HIS360YI    African Canadian History, 1606 - Present    52L</b></p> <p>This course traces the earliest known arrival of people of African descent in Canada from the early seventeenth century to the time of their more recent postwar immigration trends. Using socio-historical and multidisciplinary approaches, settlement, community and institutional building and survival will be examined within the framework of other Canadian historical developments. Recommended preparation: HIS263YI</p>	<p><b>HIS368HI    British Government and Society, 1485-1660 (formerly HIS238HI)    26L</b></p> <p>An introduction to the history of early modern England with reference to politics, religion and social structure. Exclusion: HIS238HI</p>
<p><b>HIS362HI    The Hansa: The World of Merchants    26L</b></p> <p>The history of the Hanseatic League in medieval Europe from the late 12th to the late 16th century, with emphasis on the organization of the German Hansa, maritime activities, Hanseatic trade, and daily life of the Hanseatic merchants in Western and Eastern Europe Prerequisite: HIS220YI or permission of instructor</p>	<p><b>HIS369YI    Aboriginal Peoples of the Great Lakes from 1500 (formerly HIS369HI)    52L</b></p> <p>Algonkian and Iroquoian history from the eve of European contact to the present in the Great Lakes region of today's Canada and the United States. Algonkian and Iroquoian societies in the 16th century, change over time, material culture, and inter-cultural relations among natives and between natives and Euroamericans. Exclusion: HIS369HI Recommended preparation: HIS106YI/262YI/263YI/271YI</p>
<p><b>HIS363HI    Dynamics of Gender in Canadian History    26L</b></p> <p>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: HIS262YI/263YI</p>	<p><b>HIS370HI    The Black Experience in the United States Since the Civil War    26L</b></p> <p>A survey of the economic, social, political, and cultural history of black America from Reconstruction until recent times. Among the central issues dealt with are: segregation and disfranchisement; the Great Migration; the rise of the ghetto; the Civil Rights Movement; emergence of an "underclass." Prerequisite: HIS271YI</p>
<p><b>HIS364HI    Studies in the History of Modern India    26L</b></p> <p>Selected topics in the history of modern India: the cultural, political and economic impact of the British Raj; nationalism, communalism, regional differentiation; social structure and change, cultural values and problems of identity; party structure and political change. Recommended preparation: HIS282YI Prerequisite: HIS262YI/263YI</p>	<p><b>HIS371HI    19th Century Imperial Russia (formerly HIS325YI)    26L</b></p> <p>This course focuses on the political, social, intellectual and cultural history of nineteenth and early twentieth century Russia. Major topics include the rise of a Russian intelligentsia, reform and counter-reform, the nationality question, modernization, the woman question, and revolutionary movements. Prerequisite: HIS250YI or permission of the instructor Exclusion: HIS325HI/YI</p>
<p><b>HIS365HI    History of the Great Lakes Region    26L</b></p> <p>A survey of the Great Lakes Region as a "trans-national space" from fur trade to free trade. Attention is given to the political, social, economic, environmental, and cultural histories that affected the development of the region. Prerequisite: HIS263YI/271YI</p>	<p><b>HIS374HI    American Consumerism - The Beginnings    26L</b></p> <p>This course looks at the early origins of American consumerism. It begins with 17th-century England and the economic imperatives within the Atlantic World, then traces the changing</p>

attitudes of 18th-century Americans towards consumer goods, fashion and style that led to the mass consumption of the 19th century.

Prerequisite: HIS271Y1

Recommended preparation: At least 6 courses completed

**HIS375HI History of 20th Century American Popular Culture (formerly HIS375Y1) 39L**

An examination of popular culture and its relationship to society during the first eighty years of the 20th century. By examining popular music, literature, radio, movies, sports, television, and other leisure activities, the course analyzes the manner by which groups such as blacks, ethnics, young people, and women used new means of communication to create a new popular culture in America.

Prerequisite: HIS271Y1

Exclusion: HIS375Y1

**HIS376HI The United States: Now – and Then 26L**

An exploration of some of the historical roots of issues that are of particular importance to understanding the United States of the early 21st century: e.g., the war in Iraq and U.S. global leadership (or hegemony); the impact of globalization on the domestic economy; cultural innovation vs. neo-conservatism.

Prerequisite: HIS 271Y1

**HIS377YI 20th-Century American Foreign Relations 52L**

A survey of the history of American foreign relations from 1898 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 America's relations with the world.

Prerequisite: HIS271Y1/372Y1/POL208Y1

**HIS378HI America in the 1960s 26L**

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

**HIS379HI Revolutionary America 1760-1790 26L**

Examines the social, cultural, political and economic features of the American colonies and analyses the forces leading to Revolution and Independence. The impact of the Revolution on domestic and public life of both men and women, and on African-American and aboriginal peoples are explored.

Prerequisite: HIS238HI/271Y1

**HIS380HI Late Imperial China (formerly HIS380Y1) 26L, 6T**

The political, social, and economic history of China from the period of political and economic reorganization in the Song dynasty to the final glory of the imperial order down to the end of the 18th century and its decay in the 19th.

Prerequisite: EAS102Y/HIS280Y1/JMC201Y1

Exclusion: HIS380Y1

**HIS383HI African Women from Colonial Conquest to the Era of Structural Adjustment (formerly HIS383Y1) 26L**

Major themes in the history of African women. Themes include: sources and methodologies of studying African women, cultural construction of gender, changing modes of production, women and state formation, ideology and social control, education, law,

race, class and gender, female resistance to colonial rule and African womanisms versus Western feminisms.

Exclusion: HIS383Y1

Prerequisite: HIS295Y1

**HIS384HI Colonial Canada: the East 26L**

Early Canadian history (ca. 1500-1800), emphasizing colonization, Native peoples of Ontario, Quebec and the Maritimes; establishment of French and British colonies; interaction of natives and European colonizers.

Exclusion: HIS362Y1

Prerequisite: HIS106Y1/262Y1/263Y1 or permission of the instructor

**HIS385HI/YI The History of Hong Kong 26L/52L**

A study of political, economic, and social change in the British colony of Hong Kong from 1842 until the present day.

Exclusion: Students cannot take both the Y and H version of HIS385

Recommended preparation: HIS280Y1/232Y1/JMC201Y1

**HIS386HI Muslims in India and Pakistan (formerly HIS386Y1) 26L**

Social and political history of Muslims of South Asia since A.D. 712. The growth of Muslim community, conversion, social stratification, and social structure; mediaeval Muslim legacy in administration, art, literature, and religion. Muslim identity, nationalism, and "Islamic modernism" as reflected in the writings of intellectuals such as Sayyid Ahmad Khan, Iqbal, Jinnah, Abul-Kalam Azad, Mawdudi, and Parwiz.

Recommended preparation: HIS101Y1/282Y1

Exclusion: HIS386Y1

**HIS387HI France, 1610-1848 (formerly HIS388Y1) 26L**

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.

Exclusion: HIS388Y1

Prerequisite: one HIS/FRE course

**HIS388HI France Since 1848 (formerly HIS388Y1) 26L**

A study of French society, politics and culture from the Paris Commune to the 1990's. 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.

Exclusion: HIS388Y1

Prerequisite: EUR200Y1/one course in HIS/FRE

**HIS389HI Topics in History 26L**

In-depth examination of historical issues. Content in any given year depends on instructor. See Undergraduate Handbook or History website for more details.

Prerequisite: Varies from year to year; consult department

**HIS390YI Latin American in the Age of Revolution 52L**

This course examines how Latin America and Latin Americans responded to the American, French, Haitian, Latin American, and industrial revolutions of the late eighteenth and early nineteenth centuries.

Prerequisite: 2 HIS courses

Recommended preparation: HIS 291Y1/294Y1/IAS 200Y1/GGR 240Y1

# History

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## **HIS393HI Slavery and the American South 26L**

An examination of the role of slavery in the development of the American South from the early colonial period through the Civil War. Topics include: the origins of slavery, the emergence of a plantation economy, the rise of a slaveholding elite, the structure of the slave community, and the origins of the war. Prerequisite: HIS271Y1

## **HIS394HI South Asian Migration and Settlement 26L**

The history of South Asian migration with particular emphasis on 20th-century immigration to North America and the establishment of South Asian Diaspora Society in Canada: push and pull factors, transnationality, culture transfer, sojourning and settling, race, class gender issues, adaptation and defence of tradition.

Recommended preparation: A course in Indian history

## **HIS395YI Topics in History 52L**

An in-depth examination of historical issues. Content in any given year depends on instructor. See Undergraduate Handbook.

Prerequisite: Varies from year to year; consult department

## **HIS396HI The History of Sub-Saharan Africa From Abolition of the Trans-Atlantic Slave Trade to the Era of Imperialism (formerly HIS396YI) 26L**

The course examines the major economic and political transitions that have occurred in Africa from the abolition of the trans-Atlantic slave trade to the era of imperialism. The interaction between the internal dynamics of African history and external forces is examined and different regions of Africa compared.

Prerequisite: NEW150Y1/HIS295HI

Exclusion: HIS396Y1

## **HIS398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

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### **400-Series Courses**

## **HIS400YI York University Exchange Seminar TBA**

For details, consult the Department of History.

## **HIS401YI History of the Cold War 52S**

This course covers international relations from World War II to the collapse of the Soviet Union. Topics include the breakdown of the wartime alliance, Soviet predominance in eastern Europe, the Western response, NATO, atomic weaponry.

Prerequisite: HIS311Y1/344Y1/377Y1

## **HIS 402HI Indigenous Colonial Cultures in the Spanish and Portuguese Americas 26S**

Explores the changing worlds of native peoples in Latin America from the pre-Columbian period through to the late eighteenth century. Discussions focus upon the ways in which complex Indian cultures transformed and were forged in the colonial Spanish and Portuguese Americas through the interactions of Amerindians with others.

Recommended preparation: HIS 106Y1/291Y1/294Y1

## **HIS403YI Jews and Christians in Medieval and Renaissance Europe (formerly HIS403HI) 52S**

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: HIS403HI

Recommended preparation: HIS206Y1/220Y1/243HI/322Y1/357Y1

## **HIS404HI Topics in North American Environmental History 26S**

This seminar interdisciplinary and studies past environmental change in North America. Topics include: theory and historiography; the pre-European environment; contact; resource development; settlement, industrial urban environments; ideas about nature in religion, literature and North American culture; conservation and the modern environmental movement. (Joint undergraduate-graduate)

Exclusion: HIS318Y1

Prerequisite: 8 full courses

## **HIS405YI Canadian Foreign Relations 52S**

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

## **HIS406HI Advanced Topics in Gender History 26S**

An in-depth examination of issues in gender history. Content in any given year depends on instructor. See History website for more details.

## **HIS407HI Imperial Germany, 1871-1918 (formerly HIS407YI) 26S**

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)

Exclusion: HIS407Y1

Prerequisite: HIS317Y1 or permission of the instructor

## **HIS408YI History of Race Relations in America 52S**

Relations between blacks and whites in the United States from the colonial period to recent times with emphasis on slavery.

Prerequisite: HIS271Y1

## **HIS409HI One Day in Vietnamese Religious History: the Meeting of the Four Religions 26S**

This course examines the religious traditions of Viet Nam through a meeting between the ruling Trinh Lord in Northern Viet Nam and a Buddhist monk, a Taoist Priest, a Confucian scholar, and a Catholic Missionary. Students will read the English translation of the meeting along with scholarly readings and primary documents.

Prerequisite: HIS283Y1

**HIS410HI    Spectacle, Crowds, and Parades    26S**  
**in Canada**

Social and cultural approaches to understanding spectacles, crowd behaviour, and parades in the Canadian past, 1660s - 1980s.

Prerequisite: HIS262Y1/263Y1/367HI

**HIS411HI    Great Trials in History    26S**

This seminar course will study a handful of great trials – still to be selected – 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.

**HIS412YI    Crusades, Conversions and    52S**  
**Colonialization in the Medieval Baltic**  
**(formerly HIS412HI)**

Explores the impact of crusades, religious conversion and colonialization on medieval Baltic history through analysis of two medieval chronicles in English translation. Topics include ‘culture clash’, medieval colonialism, Europeanization as well as German expansion eastwards, the role of the Teutonic Knights and the strategies of survival of the native Baltic people after conquest and Christianization.

Exclusion: HIS412HI

Recommended preparation: HIS250Y1/353Y1/permission of instructor

**HIS414HI    The Third Reich    26S**  
**(formerly HIS414YI)**

An integration of current historiographical approaches to the Third Reich with a close reading of primary documents in English. The focus is on the Nazi regime as something less than a totalitarian state. Attention is given to non-conformity and other features of “everyday life” under the Nazis.

Exclusion: HIS414YI

Prerequisite: HIS317Y1/338Y1 or permission of instructor

**HIS415HI    Nationalism & Memory in    26S**  
**Modern Europe**

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 European history courses

**HIS416HI    Orientalism and Nationalism in    26S**  
**Nineteenth-Century Germany**

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: HIS241HI, 242HI/317HI/YI

**HIS417HI    Globalization, Science,    26S**  
**and Technology**

A critical investigation of the idea of globalization through the comparison of the late imperial period (ca. 1850-1900) and our own era. Evaluates theories of globalization mostly by analyzing the role of scientific and technological developments in the

production of global networks of various kinds (eg., capital, people, information).

Recommended preparation: Background in history of science, history of modern empires, and/or comparative history desirable

**HIS418HI    Women and Gender in    26S**  
**Russian History**  
**(formerly HIS418YI)**

Focus is on the history of women and systems of gender in Russia and the Soviet Union. Themes include gender and authority during the age of empresses; pre-revolutionary radical movements; the impact 1917 Revolution and its impact on women’s lives; the resurrection of conservative gender conventions during Stalin’s regime; the experience of women during perestroika.

Prerequisite: HIS250Y1/351Y1/325HI/YI

Exclusion: HIS 418YI

**HIS419HI    Canadian Popular Culture,    26S**  
**1880 to the Present**  
**(formerly HIS419YI)**

The evolution of the tastes, patterns of consumption, and leisure products which together defined the affluent lifestyle that matured in the postwar era. Attention to the effects of technology; gender stereotypes; how people used the mass media; the genres of advertising, mass entertainment, and sports; fads, fashions, and heroes. Focus on the period after 1945.

Prerequisite: A mark of 75% or higher in HIS262Y1/263YI

Exclusion: HIS419YI

**HIS420HI    Democracy, Industry, & Public    26S**  
**Culture in Twentieth-Century Germany**

This course explores modernist architecture, theatre, film and photography in Germany from the turn of the twentieth century to the 1950s, looking at how the new cultural forms created during the Weimar Republic were used and transformed during the National Socialist period. Topics include industrial culture, the relationship between art and technology, mass culture and spectacle, and ideas of national and racial community.

Prerequisite: HIS 317HI/317YI/242HI

**HIS421YI    Soviet History Seminar    52S**  
**(formerly HIS421HI)**

A seminar on the history of Soviet Russia in its formative years, 1917 to 1939. The revolutions of 1917, the civil war and war communism, NEP Russia, the Stalin revolution, the purges, and the “great retreat” are explored. Emphasis is on issues, interpretations and historiography, problems of study, and periodization. (Joint undergraduate-graduate)

Exclusion: HIS421HI

Prerequisite: HIS351YI (with a mark of at least 80%)

**HIS422HI    Vichy France, 1940-1944    26S**

This course examines the rise, fall, workings and legacies of a xenophobic, collaborationist regime that came to power in France in 1940. It pays special attention to everyday practices under Vichy, to individual choices, to ideological battles, and to trauma. Other major themes include anti-Semitism, issues of memory and amnesia, and socio-cultural shifts.

Recommended preparation: HIS242HI

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**HIS423HI Social History of Medicine in the 19th& 20th Centuries (formerly HIS423YI) 26S**

Introduces students to some of the main issues in the new field of the social history of medicine. Readings from the secondary historical literature are distributed and discussed in class, covering such topics as the history of the doctor-patient relationship, changes in physicians' social status, changing attitudes towards the body, and the history of obstetrics and gynaecology. (Joint undergraduate-graduate)

Exclusion: HIS423YI

Prerequisite: A minimum of one course in HIS/PSY/SOC

**HIS424HI Violence in Medieval Society (formerly HIS424YI) 26S**

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: HIS220YI/304YI/320YI/322YI

Exclusion: HIS424YI

**HIS425HI Historiography 26S**

A look at some basic problems of historical study, approached by means of an analysis of the work of a number of historians and philosophers of history, representing different schools of thought and time periods from ancient times to the present.

Recommended preparation: Three HIS courses

**HIS427HI History and Historiography in the Golden Legend 26S**

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: HIS220YI

**HIS428HI Institutes of Perfection 26S**

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 in Medieval history such as HIS220YI

**HIS429YI Fascism 52S**

Examines the historiography, theories and trappings of fascist movements and regimes. Special attention is afforded to a number of case studies. Regional focuses include: Germany, France, Italy and Eastern Europe. The course deciphers the political, cultural and social dimensions of fascism through definitions and origins of fascism; fascism and xenophobia; fascism and gender; fascism and empire; and fascist aesthetics and literature.

Prerequisite: HIS242HI or permission of the instructor

**HIS430HI Canadians and the World Wars 26S**

Topics in the political, social, cultural, and military history of Canadians during the First and Second World Wars. Emphasis on the home front.

Prerequisite: HIS263YI

**HIS432HI Topics in Medieval History 26S**

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 HIS220YI

**HIS433HI Polish Jews Since the Partition of Poland 26S**

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: HIS208YI/251YI/permission of the instructor

**HIS434YI Kievan Rus' 52S**

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: One of the following: HIS220YI/250YI/320YI/322YI/JHP204YI

**HIS435HI Change and Continuity in Seventeenth Century England 26S**

This course focuses on the causes, character and consequences of the British Civil Wars (1638-60) and on the different ways historians have treated these questions over the past 150 years. Students will think about how religious issues influenced political events before, during and after the Civil Wars and on how they were influenced by contemporaneous economic and social change.

Prerequisite: four full HIS courses, including HIS238H/348H

**JHP435YI Linguistic and Cultural Minorities in Europe 52S**

Examines status of minority peoples in Europe, using specific case studies to compare similarities and differences in how these minorities function in states with differing political systems and ideologies. The evolution of specific minorities focuses on questions of language, religion, historical ideology, legal status, assimilation, and political goals. (Given by the Departments of Political Science and History)

Prerequisite: POL 103YI/312YI/a course in European history

**HIS436HI Culture and the Cold War (formerly HIS436YI) 26S**

The impact of the Cold War on life in the West through a study of selected popular culture themes and modes of production that helped shape the era. Four themes include "Living with the Bomb," "Living with the National Security State," "Living with Spies," and "Women Living with the Cold War."

Exclusion: HIS436YI

**HIS437HI A History of the Black Autobiographical Tradition in Canada 26S**

This course explores the history of the Black autobiographical tradition from the eighteenth century to the late twentieth century. It focuses on three slave narratives and two memoirs. Black autobiographies illustrate some of the following themes: slavery and freedom, exodus and migration, war and revolution, family and identity, alienation and neglect, racism and discrimination, the quest for literacy and education, writing as



a critical terrain of Black struggle, the political import of Black writing, human rights activism, and feminist justice.

Prerequisite: HIS 263Y1/360Y1/366Y1 or some other background in women's history, Black history or the literature thereof

**HIS438HI Inquisition and Society in Medieval and Early Modern Europe 26S**

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

**HIS439HI Russia's Empire 26S**

This course examines ways in which the Russian Empire and Soviet Union expanded their territories, the ways they controlled those colonies, and the ways in which they dealt with rising nationalism both at home and abroad. Prerequisite: HIS250Y1

**JHP440YI Gender & International Relations (formerly HIS 440HI) 52S**

The 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; and contributions of feminist theory to international relations theory.

Prerequisite: HIS103Y1/245Y1/377Y1/POL208Y1 or permission of instructor

Exclusion: HIS 440HI

**HIS441HI Conversion & Christianities in the Early Modern Spanish World 26S**

Investigates religious conversion and cultural change in the Spanish world ca. 1450-1750. Principal settings include the late medieval Spanish kingdoms, Mexico, Peru, Paraguay, and the Philippines archipelago. Fall 2007 is special: our seminar readings and assignments will take best advantage of "The Virgin, Saints and Angels", an exhibition of baroque paintings from Spanish South America in the UofT Art Centre.

Recommended Preparation: HIS106Y1 or HIS291Y1 may be useful

**HIS442YI Power and Powerlessness in Jewish History 52S**

Analyzes the religious, social and psychological roots of antisemitism and traces its development in Europe from the Middle Ages through the early twentieth century. The course compares and contrasts antisemitism and other forms of prejudice and examines Jewish-Gentile relations in terms of minority-majority relations throughout the continent.

Prerequisite: Two courses in European history

Recommended preparation: A course in Judaism or Jewish history

**HIS443HI Society, Culture and Religion in the Renaissance and Reformation (formerly HIS443YI) 26S**

Developments in popular/lay/local religion as expressed in a variety of cultural, political, and social forms from 1400-1600; the relation of these forms to both Catholic and Protestant institutional churches. Impact of Renaissance humanism on notions of kinship, order, community, perfection.

Exclusion: HIS443Y1

Recommended preparation: HIS340Y1/357Y1 or permission of instructor

**HIS444HI Topics in Jewish History: Jewish Identity in the Modern World 26S**

Explores the construction of Jewish identity in Europe from the late 18th through mid 20th centuries. Political emancipation and unprecedented economic opportunity stimulated many Jews to adopt the cultures of their host societies while refashioning Jewishness as a form of religious or ethnic community. Others constructed identities based on a defensive Orthodoxy or revolutionary ethos. Zionism grew out of and responded to all of these options and will receive particular focus in this course.

Prerequisite: Two of the following: HIS208Y1/241HI/242HI/244HI/250Y1/251Y1/317Y1/338Y1/341HI/353Y1/356HI/388HI or permission of instructor

Recommended Preparation: A course in Jewish history.

**HIS445HI Nationalism 26S**

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 1700's through the present.

Prerequisite: Two courses in European history or permission of instructor

**HIS446YI Gender and Slavery in the Atlantic World (formerly HIS446HI) 52S**

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.

Exclusion: HIS446HI

Prerequisite: HIS245Y1/291Y1/294Y1/295Y1

**HIS 448HI Gender in East and Southeast Asia (formerly HIS 391HI) 26S**

This course explores the history of gender in East and Southeast Asia from a comparative perspective. It will examine how models of Southeast Asian women have been constructed against their East Asian counterparts.

Prerequisite: HIS283Y1

Exclusion: HIS391HI

**HIS449YI Ukrainian National Revival 52S**

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: JHP 204Y1/HIS 241HI/251Y1/445HI

**HIS451HI World War II in East Central Europe 26S**

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/HIS251Y1/334Y1

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**HIS452HI Science and Society in Eighteenth Century Europe 26S**

Comparative analysis of British and French scientific culture during the age of the Enlightenment and the French Revolution. Addresses science as a culturally constructed system of knowledge rather than a body of absolute truth. Particular attention is therefore paid to similarities and differences between “elite” and “popular” science, as manifested in the periodical press, literary texts and consumer culture. Major course themes include gender, race, imperialism and governance. Prerequisite: HIS 244HI/337HI/324HI/324YI/341YI

**HIS453HI Problems of National Survival in Eastern Europe Since 1848 26S**

How the peoples of Eastern Europe tried to organize their domestic affairs, and in what international context they sought to operate, in order to survive as national entities and later to preserve their newly-won independence and territorial integrity. (Joint undergraduate-graduate) Prerequisite: HIS251YI/334YI or equivalent

**JHP454YI Twentieth Century Ukraine 52S**

World War I and the Russian Revolution: the Ukrainian independence movement; the Soviet Ukraine and west Ukrainian lands during the interwar period; World War II and the German occupation; the Soviet Ukraine before and after the death of Stalin. Socio-economic, cultural, and political developments. (Given by the Departments of History and Political Science) (Joint undergraduate-graduate) Prerequisite: A course in modern European, East European or Russian history or politics such as JHP204YI/HIS250YI/351YI/353YI

**HIS454HI Topics in Russian and Soviet Social History 26S**

This course uses the ideas of “city” and “citizenship” as a lens for examining the social and economic development of Russia in the late imperial and early Soviet eras. In the Russian empire the rural population was the main source of urban growth throughout modern history. The interaction between city and countryside will be one of the main themes of the course. (Joint undergraduate-graduate) Prerequisite: A course in Russian history such as HIS 250YI

**HIS455HI In the Soviet Archives: Text and History 26S**

A tour of Soviet history through recently declassified archival documents (in English translation), first-hand accounts, memoirs, and literature. The primary chronological emphasis of the course will be on the years of Stalin. The focus of the course will be on close textual analysis and a critical reading of the sources. (Joint undergraduate-graduate.) Prerequisite: HIS351YI with a grade of 80 or higher.

**HIS456YI Black Slavery in Latin America 52S**

An examination of black slavery in Latin America, with emphasis on the lives of the slaves, from the conquest of America to abolition in the 19th century. Prerequisite: HIS291YI/292YI/294YI/295YI/394YI/408YI/IAS200YI/320HI

**HIS457HI The French Revolution and the Napoleonic Empire 26S**

Explores the central themes in the history of France during the Revolution and the First Empire. We will consider the period’s principal political, social and cultural aspects: the causes of the French Revolution; the shift from constitutional

monarchy to Republic; the relationship between politics and religion; the invention of a new republican political culture; counterrevolution and Terror; the Directory; Bonaparte’s rise to power; the Napoleonic Empire; the nature of war during the Empire; the Restoration; and the Revolution’s legacy in France and beyond today.

Prerequisite: HIS243HI/244HI/319HI/341YI/388HI/492YI

**HIS458YI Topics in Russian and Soviet Foreign Policy 52S**

Tsarist and Soviet foreign relations from the Crimean War to the present with emphasis on continuity and change. The seminar examines major themes in Russian and Soviet foreign policy behaviour on the basis of assigned readings. Prerequisite: HIS250YI/334YI/344YI

**HIS459HI Soviet History and Film, 1921-1946 26S**

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: INI115YI/HIS250YI

Exclusion: HIS450YI/SLA233HI/234HI

**HIS460HI Soviet History and Film, 1941-1991 26S**

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: INI115YI/HIS250YI

Exclusion: HIS450YI/SLA233HI/SLA234HI

**HIS461HI Poland in the 20th Century 26S**

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: HIS334YI/353YI/permission of the instructor

**HIS466HI Topics in Canadian History (formerly HIS466YI) 26S**

Selected topics in a specific period of Canadian history. Content in any given year depends on instructor. Please see Departmental Handbook for complete description. Prerequisite: HIS262YI/263YI

**HIS467HI French Colonial Indochina: History, Cultures, Texts, Film (formerly HIS467YI) 26S**

Examines French colonial Indochina through several different lenses. Themes include the cross-cultural “contact zones” between colonial and colonized societies, gender perceptions, 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: ANT344YI/EAS 204YI/GGR342HI/HIS104YI/107YI/280YI/282YI/283YI/315HI/388YI/NEW369YI

Exclusion: HIS467YI

**HIS468HI Atlantic Canada 26S**

The emphasis in this course is on Native peoples, settlement issues and settler society; economic development; women; reform movements; other distinctive aspects of the history of the Maritime region and Newfoundland. (Joint undergraduate-graduate)

Prerequisite: HIS262Y1/263Y1

**HIS469HI Religion, Culture and Society in Canada 26S**

This course examines the interaction between religion and culture in Canada from colonial times to the present with emphasis on primary documents. (Joint undergraduate-graduate) Recommended preparation: A course in Canadian history

**HIS470HI History, Rights, and Difference in South Asia 26S**

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 HIS 282Y1 or instructor's permission

Recommended preparation: Background in political and social theory and some background in South Asia

**HIS471HI United States and Globalization 26S**

This course considers the origins and evolution of U.S. experiences with globalization: attention is paid to economic, technological, cultural, and institutional developments during the past century.

Prerequisite: HIS271Y1/377Y1

Recommended preparation: HIS377Y1

**HIS472HI Topics in Aboriginal History 26S (formerly HIS472Y1)**

Major themes in the history of Aboriginal-White relations in Canada. Topics included are: role of native people in the creation of British North America and in the Western fur trade; the emergence of the Métis; analysis of colonial Indian policy; the Red River Resistance; the making of treaties; the North West Rebellion; the struggle for survival in post-treaty Canada; the emergence of "red power"; contemporary and feminist issues. (Joint undergraduate-graduate)

Exclusion: HIS472Y1

Prerequisite: HIS262Y1/263Y1

**HIS473YI The United States and Asia in the Cold War Era 52S (formerly HIS 473HI)**

This seminar examines strategic, economic, ideological, and cultural factors in U.S. relations with East and Southeast Asia. Major themes include the role of cultural and informal diplomacy and the effect of perceptions and misperceptions on both sides of U.S.-Asian interactions.

Prerequisite: HIS344Y/372Y1/377Y1

Exclusion: HIS 473HI

**HIS475HI Race, Segregation, and Protest: South Africa and the United States 26S**

This course explores the origins, consolidation, and unmaking of segregationist social orders in South Africa and the American South. It examines the origins of racial inequality, the structural and socio-political roots of segregation, and the twin strategies

of accommodation and resistance employed by black South Africans and African Americans. (Joint undergraduate-graduate)

Recommended preparation: HIS271Y1/295Y1

**HIS476HI Voices from Black America 26S (formerly HIS476Y1)**

The history of Black Americas seen through the eyes of some of the men and women who experienced it. Attention is given to slavery but emphasis is on the twentieth century. Students examine autobiographical works, novels, and film.

Prerequisite: HIS271Y1

Exclusion: HIS476Y1

**HIS477HI Topics in the Social and Cultural History of Victorian Britain 26S (formerly HIS477Y1)**

Examination of the impact of industrialism on Victorian society and values. Concentration on Victorian social critics including Engels, Owen, Maynew, Dickens and Morris.

Recommended preparation: A course in modern British History/Victorian literature

Exclusion: HIS477Y1

**HIS478HI Hellhound on my Trail: Living the Blues in the Mississippi Delta, 1890-1945 26S**

This course examines black life and culture in the cotton South through the medium of recorded blues music. It seeks to restore a voice and a sense of agency to black southerners in the age of Jim Crow. Topics include the plantation economy, agricultural life, mobility, migration, and urban subcultures.

Recommended Preparation: HIS 271Y1/USA 300HI

**HIS479HI American Foreign Policy Since World War II 26S (formerly HIS479Y1)**

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: HIS271Y1/377Y1

Exclusion: HIS479Y1

**HIS480HI Modernity and its Others: History and Postcolonial Critique 26S**

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 HIS 282Y1, or instructor's permission

Recommended preparation: History of colonialism, political theory, or postcolonial literatures

**HIS481HI Elite Women, Power, and Modernity in Twentieth-Century Africa 26S**

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: HIS 295HI/296Y1/383HI/396HI or permission of instructor

# History

- HIS483HI Men, Women and Gender in Europe, 1400-1800 (formerly HIS483YI) 26S**  
 This research seminar builds on work done in lower-level gender history courses. It focuses on intensive study of sources and methodologies for the history of masculinities and women in early modern Europe. The main assignment is an independently-designed major research project.  
 Prerequisite: HIS245Y1/306Y1/354HI  
 Exclusion: HIS483YI
- HIS484HI The Car in North American History (formerly HIS484YI) 26S**  
 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: HIS263Y1/271YI  
 Exclusion: HIS484YI
- HIS485HI Topics in Late Imperial and Modern Chinese History (formerly HIS485YI) 52S**  
 A seminar on aspects of Chinese history from 1368 to the present, with emphasis on social history. Topics vary and include: social structure in Ming-Qing China; religion and ritual in Chinese society; Chinese popular culture. (Joint undergraduate-graduate)  
 Exclusion: HIS485YI  
 Prerequisite: EAS102Y1/HIS280Y1, HIS380Y1/JMC201YI
- HIS486HI Love, Money, and Subjectivity in Sub-Saharan Africa 26S**  
 This course examines the denial of African subjectivity - feelings, thoughts, and concerns - by western cultures from the time of the trans-Atlantic slave trade until the present. At the same time it examines the overwhelming evidence of African subjectivity and how these feelings, thoughts and concerns have changed over the same period due to the effects of capitalism. Other topics that are covered include slavery, racism, colonialism, anthropology, and ethnology. (Joint undergraduate-graduate)  
 Prerequisite: A 200- or 300-level course in African Studies
- HIS488HI The Secret War, 1939-1945 (formerly HIS488YI) 26S**  
 The development of intelligence techniques and operations in wartime conditions; the role of espionage, cryptanalysis and deception in deciding the battles and campaigns of the Second World War.  
 Prerequisite: Any two courses from: EUR200Y1/HIS103Y1/241HI, 242HI/343Y1/344YI  
 Exclusion: HIS488YI
- HIS489HI The History of Psychiatry and Psychiatric Illness 26S**  
 Introduces students to some of the main issues in the history of psychiatry. Readings from the secondary historical literature are distributed and discussed in class, covering such topics as changes in the nature of psychotic illness, the psychoneuroses, disorders of the mind/body relationship, and the psychiatric diagnosis and the "presentation" of illness. (Joint undergraduate-graduate)  
 Prerequisite: a minimum of one course in HIS/PSY/SOC  
 Exclusion: HIS423YI
- HIS492YI Britain and the French Revolution, 1785-1801 (formerly HIS492HI) 52S**  
 Britain's response to the French Revolution and revolutionary wars studied through selected topics in political theory, the history of popular movements, the experience of industrialization and foreign policy.  
 Prerequisite: Any course in Western European or British History  
 Exclusion: HIS492HI
- HIS493HI Cultural Encounters in Early Canada 26S**  
 Issues of identity and difference in the meeting of Natives and Europeans during colonization of Canada. Eastern, Western and Arctic Canada, 16th- to early 19th-centuries.
- HIS494YI Kinship, Slavery and Citizenship in West Africa c. 1500 to the present 52S**  
 Slavery has often been used to define both kinship and citizenship in African history, just as slavery and citizenship have been seen as threats to kinship, and kinship and slavery have been seen as obstacles to citizenship. This course examines the relationship between these three topics in West African history.  
 Prerequisite: HIS295Y1/395YI
- HIS495HI Topics in History (formerly HIS495YI) 52S**  
 An in-depth examination of historical issues. Content in any given year depends on instructor. See Undergraduate Handbook or History website for more details.  
 Exclusion: HIS495YI  
 Recommended preparation: Varies from year to year
- HIS496HI Topics in History 26S**  
 An in-depth examination of historical issues. Content in any given year depends on instructor. See Undergraduate Handbook or History website for more details.  
 Recommended preparation: Varies from year to year
- HIS498HI/ 499YI Independent Studies TBA**  
 These courses assume the form of an undergraduate thesis. Students must find an appropriate supervisor from the Department, receive approval for the project, and submit an Independent Studies ballot. Students must be enrolled in either a History Specialist or Major program, with a B+ average in no less than 4 HIS courses, or with special permission of the instructor. Applications must be received in September for first session courses; in December for second session courses.

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# History and Philosophy of Science and Technology

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## Sponsored by the Institute for the History and Philosophy of Science and Technology

### Faculty

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#### University Professor Emeritus

T.H. Levere, MA, D Phil, D Litt, FRSC (V)

#### Professors Emeriti

P.M.H. Mazumdar, MB, M Tech, Ph D (V)

M.P. Winsor, M Phil, Ph D (V)

#### Professor and Director of the Institute

P. Thompson, MA, Ph D (V)

#### Professors

C. Fraser, MS, Ph D (V)

B.S. Hall, BA, Ph D (V)

A.R. Jones, BA, Ph D, FRSC (V)

J. Langins, M Eng, Ph D (V)

#### Associate Professors

B. Baigrie, MA, Ph D (V)

J. Berkovitz, BSc, MA, Ph D (V)

A. Chakravartty, BSc, MA, M Phil, Ph D (V)

N. Krementsov, Diploma Candidate of Sciences/History and Philosophy of Science and Technology (V)

D. Walsh, BSc, BA, M Phil, Ph D, Ph D (V) Canada Research Chair

#### Assistant Professors

L. Dacome, BA, M Phil, Ph D (V)

M. Solovey, BA, MA, MA, Ph.D. (V)

M. Vicedo, BA, MA, Ph.D., Ph.D. (V)

C.-P. Yeang, BS, SM, Ph D, Sc D (V)

The history and philosophy of science and technology cuts across traditional disciplines of the sciences and the humanities. HPS courses treat the sciences and technology, including mathematics and medicine, as being historically and philosophically significant in themselves, and also as being integral components of the general development of knowledge, culture, and society. The undergraduate courses serve to introduce the student to this discipline, and also to provide a wider context for understanding science and technology. All courses have a substantial historical component, and many deal with philosophical, sociological and related issues. For example, students of history will find courses in the history of science to be an important part of social and intellectual history, while students of economic history may be especially interested in the history of technology. For philosophy students, history of science courses form a natural adjunct to issues in the theory of knowledge, philosophy of science and history of philosophy. Students of the humanities with particular interests in the physical or biological sciences, technology, engineering, mathematics, or medicine will naturally be interested in HPS courses, and students in these scientific disciplines will benefit from the broad historical and philosophical perspective on their studies that HPS courses can provide.

Some students may wish to plan their entire programs around a core of HPS courses. The Major program in HPST listed is suitable training for medical school, the law, elementary and secondary

school teaching, museum and library work, science writing and editing, and other fields where competence in both science and humanities is valuable. Students considering graduate study in this field should seek direction from an IHPST faculty member. For more information consult the IHPST Undergraduate Handbook, available at the Institute.

Undergraduate Coordinator:

Professor D. Walsh, Victoria College, Room 316A (416-978-5847)

Email: denis.walsh@utoronto.ca

Enquiries:

Victoria College, Room 316 (416-978-5397)

## History and Philosophy of Science and Technology Programs

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Enrolment in the History and Philosophy of Science and Technology programs requires the completion of four courses; GPA of 1.7 required.

### History and Philosophy of Science and Technology (Arts program)

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#### Major program:

(7 full courses or their equivalent)

Admission requires GPA of 1.7 and continuation in the program requires maintenance of a GPA of 2.3

1. One course in science, choices subject to the approval of the Under Graduate coordinator. It is recommended that it include a laboratory or practical component; HIS109Y1
2. HPS210H1; HPS211H1; HPS250H1; HPS350H1; HPS201H1/202H1
3. One additional course at HPS300+ level
4. One 200+H science half course; one 300+ science half course; HIS200+ series half course/CLA203H1/CLA206H1

Recommended preparation: HPS100H1. It is further recommended that the first HPS courses taken (other than HPS100H1) be HPS210H1 and HPS211H1

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**All the specialist, major, and minor programs listed below will no longer be offered.**

**Students admitted to these programs prior to September 2004 may complete their programs as described below.**

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### History and Philosophy of Science (Arts program)

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#### Specialist program:

(11.5 full courses or their equivalent)

1. Three 200+ series courses in science, choices subject to the approval of the Undergraduate Coordinator
2. HPS 200Y1/(210H1 + 211H1), 250H1; PHL 210Y1, 245H1
3. 2.5 additional HPS courses. Students may substitute courses in the history of science or the history of thought offered in other departments for up to two courses, with approval of the Undergraduate Coordinator
4. Four PHLI/PHI half-courses in epistemology, logic and formal semantics, philosophy of science

# History and Philosophy of Science and Technology

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5. One additional 400 series HPS/PHL course. Of the other HPS/PHL courses, three must be 300+ series

## Major program:

(7 full courses or their equivalent)

1. Two 200+ series courses in science, choices subject to the approval of the Undergraduate Coordinator
2. HPS 200Y1/(210HI + 211HI), 250HI, PHL 210Y1, 245HI
3. One 300+ series PHL course in epistemology, logic and formal semantics, philosophy of science
4. One other HPS 300+ series course

## Minor program:

(4 full courses or their equivalent)

1. HPS 200Y1/(210HI + 211HI), 250HI; PHL 210Y1, 255HI
2. One HPS/PHL 300+ series course

## History of Science and Technology (Arts program)

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### Specialist program:

(11 full courses or their equivalent)

1. Two 100+ series and three 200+ series courses in science, choices subject to the approval of the Undergraduate Coordinator
2. HIS 109Y1 plus one other course in history, choice subject to the approval of the Undergraduate Coordinator
3. Three HPS courses, of which two may be courses in history of science offered by another department, subject to the approval of the Undergraduate Secretary. CLA 203HI will be treated as an HPS course
4. One HPS 400-series course

### Note:

At least three of the above ten courses must be 300+series

### Major program:

(7 full courses or their equivalent)

1. Two 200+ series courses in science or technology, choices subject to approval of the Undergraduate Coordinator
2. Five HPS courses, at least two of which must be 300+ series courses; up to two courses in history or the history of science offered in other departments may be substituted with the approval of the Undergraduate Coordinator

### Minor program:

(4 HPS full courses or their equivalent)

Four HPS courses, of which at least one must a 300+ series course. One course may be replaced by a course in the history of science offered by another department, but requires approval of the Undergraduate Coordinator.

## History and Philosophy of Science and Technology Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), some HPS courses are cross-listed; check individual course descriptions.

### HPS100HI Introduction to History and Philosophy of Science 26L, 13T

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.

This counts as a Humanities or Science course

### HPS201HI Origins of Western Technology 26L, 13T

Technology and its place in our culture from Antiquity to the beginnings of the Industrial Revolution. Relations between technology and science, religion, the arts, social institutions, and political beliefs.

This is a Humanities course

### HPS202HI Technology in the Modern World 26L, 13T

A survey of technical change and its social implications from the Industrial Revolution to the present.

Recommended preparation: HPS201HI

This is a Humanities course

### HPS210HI Scientific Revolutions I (formerly HPS200Y1) 26L, 13T

Case studies in the history of science from antiquity to 1800, including the revolutionary work of Copernicus, Kepler, Galileo, Descartes, Newton, Linnaeus, Lavoisier, and Herschel. The course is designed to be accessible to science students and non-scientists alike.

This counts as a Humanities or Science course

Exclusion: HPS200Y1

### HPS211HI Scientific Revolutions II (formerly HPS200Y1) 26L, 13T

Case studies in the history of science from 1800 to 2000, including Volta, Lyell, Darwin, Mendel, Einstein, Schrödinger, Watson, and Crick. The course is designed to be accessible to science students and non-scientists alike.

This counts as a Humanities or Science course

Exclusion: HPS200Y1

### HPS250HI Introductory Philosophy of Science 26L, 13T

This course introduces and explores central issues in the philosophy of science, including scientific inference, method, and explanation. Topics may include underdetermination, realism and empiricism, and laws of nature.

This is a Humanities course

### HPS299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details.

### HPS300HI Topics in History and Philosophy of Science and Technology TBA

Topics vary year to year.

This is a Humanities course

### HPS306HI Technology and War 26L, 13T

An examination of the tools of war in the Western world from the Middle Ages to World War II, including not only weapons but the means of transportation, communication, and organization used in violent conflict. The effects of war on the development of science and technology.

Exclusion: HPS417HI

Recommended preparation: HPS201HI/202HI or any HIS course

This is a Humanities course

### HPS307HI History of Energy 26L, 13T

The history of human control of various sources of energy, including technical developments, scientific theories, and impact on culture and society. Recent debates on fossil fuel and nuclear power examined in historical context.

# History and Philosophy of Science and Technology

Recommended preparation: HPS201HI/202HI or any HIS course

This is a Humanities course

## **HPS311HI History of Physics 13S**

Topics in the history of physics from antiquity to the 20th century, including Aristotelian physics, Galileo, Descartes, electromagnetism, thermodynamics, statistical mechanics, relativity, quantum physics, and particle physics. The development of theories in their intellectual and cultural contexts.

Prerequisite: At least one PHY course at university level

This is a Humanities or Science course

## **HPS312HI History of Chemistry 13S**

The emergence of the modern discipline of chemistry from 1785 to 1939. Seminar discussions focus on key papers of important Historical analysis of the interplay between theory and practice, and of the dynamics of scientific communities

Prerequisite: At least one CHM course at university level

This is a Humanities or Science course

## **HPS313HI Two Hundred Years of Electricity 26L**

A history of the science and technology of electricity in the 19th and 20th centuries in its social, economic, and cultural context.

This is a Humanities or Science course.

## **HPS318HI History of Medicine I 26L, 13T**

A survey of medical theory and practice from Antiquity to the Renaissance, with emphasis on medicine's social, cultural and political setting.

Exclusion: HPS314YI

This is a Humanities course

## **HPS319HI History of Medicine II 26L, 13T**

A survey of medical theory and practice from the 17th century to the modern welfare state, with emphasis on medicine's social, cultural and political setting.

Exclusion: HPS314YI;315HI

This is a Humanities course

## **HPS322HI Complexity, Order, and Emergence**

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-organisation in biology and cognitive development.

This is a Humanities course.

## **HPS324HI Natural Science and Social Issues 26L, 13T**

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.

This is a Humanities course

## **HPS326HI History of Science and Religion 13S, 13T**

From its origins in the Renaissance, modern science has developed in the context of European religious beliefs and institutions. Although cases of conflict like Galileo or the "Monkey Trial" are famous, more common are cases of scientists like Newton or Faraday whose religious convictions were crucial to their scientific success.

This is a Humanities course

## **HPS343HI History of Pre-Electronic Computing 26L**

Computing technology from Chaldean astronomy to the advent of British and U.S. mass production of electronic mainframes in 1953. Emphasis will be on uses and users, especially on great figures from Babbage through von Neumann, but hardware descriptions will also be featured.

This counts as a Humanities or Science course.

## **HPS344HI History of Mainframe Computing 26L**

Covers the period from mass production in 1953 to the emergence of minicomputers around 1969. Beginnings of software and services industries, networking, university computer science. Emphasis on international developments.

This counts as a Humanities or Science Course

## **HPS350HI Revolution in Science 26S**

An investigation into the nature and development of scientific knowledge, inspired by Kuhn's notion of revolutions. Topics may include incommensurability, the rationality of theory choice, and social constructivism.

Prerequisite: HPS250HI or permission of the instructor

This is a Humanities course

## **HPS352HI History and Philosophy of the Social Sciences 26L**

This course explores central developments, ongoing controversies, and major figures in the social sciences: sociology, economics, political science, anthropology, and the behavioral sciences. It concentrates on such prominent individuals as: Rene Descartes, Thomas Hobbes, John Locke, Adam Smith, Karl Marx, Franz Boas, Sigmund Freud, and Gunnar Myrdal.

This is a Humanities or Social Science course.

## **HPS353HI History of Evolutionary Biology (formerly HPS323HI) 26L, 13T**

An examination of major ideas about biological evolution from the 18th century to the 1930's and of their impact on scientific and social thought. Topics include the diversity of life and its classification, the adaptation of organisms to their environment, Wallace's and Darwin's views on evolution by natural selection, sexual selection, inheritance from Mendel to T.H. Morgan, eugenics, and the implications of evolution for religion, gender roles, and the organization of society.

Exclusion: ZOO354YI/HPS323HI/EEB353HI

Prerequisite: 6 full courses or equivalent including one HPS half course or BIO150Y.

This counts as a Humanities or Science course

## **HPS355HI History of Evolutionary Biology II (formerly HPS333HI) 26L, 13T**

An examination of ideas about biological evolution from the 1930's to the present. Topics include the Modern Synthesis, population genetics, the concept of biological species, ecology, sociobiology, and creationism.

Exclusion: ZOO354YI/HPS333HI/EEB355HI

Prerequisite: HPS323HI/HPS353HI/EEB353HI

This counts as a Humanities or Science course

## **PHL355HI Philosophy of Science**

See "Philosophy"

## **HPS360HI History of Modern Cosmology 26L, 13T**

Conceptions of the universe since 1800 with attention to observational sources of changing ideas. History of large telescopes, stellar spectroscopy and radio astronomy. Relativistic

# History and Philosophy of Science and Technology

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conceptions of space and time, models of stellar evolution, discovery of extra-galactic nebulae, Hubble red-shift and microwave background radiation. Philosophical and religious implications are examined.

This counts as a Humanities or Science course

**HPS375HI Science and Technology in 26L, 13S  
The Realms of Islam, 600-1600, Part I:  
The Mathematical Sciences and their  
Practical Applications  
(formerly HPS275HI)**

First part of a series on the history of science and technology in the Islamic world. History of the exact sciences, including mathematics, astronomy, optics, and cartography.

Prerequisite: At least one MAT or Science course at university level

Exclusion: HPS275HI, NMC379HI

This counts as a Humanities or Science course

**HPS376HI Science and Technology in 26L, 13S  
the Realms of Islam, 600-1600, Part II:  
The Life Sciences  
(formerly HPS276HI)**

Second part of a series on the history of science and technology in the Islamic world. History of biological and life sciences, including history of medicine, botany, agriculture, and alchemy.

Prerequisite: At least one MAT or Science course at university level

Exclusion: HPS276HI, NMC379HI

This counts as a Humanities or Science course

**HPS390HI History of Mathematics 26L, 13T  
up to 1700**

A survey of ancient, medieval, and early modern mathematics with emphasis on historical issues. (Offered in alternate years)

Exclusion: 310Y1; MAT220Y1

Prerequisite: At least one full course equivalent at the 200+level from CSC/MAT/STA

This counts as a Humanities or Science course

**HPS391HI History of Mathematics 26L, 13T  
after 1700**

A survey of the development of mathematics from 1700 to the present with emphasis on historical issues. (Offered in alternate years)

Exclusion: HPS310Y1; MAT220Y1, MAT391HI

Prerequisite: At least one full course equivalent at the 200+level from CSC/MAT/STA

This counts as a Humanities or Science course

**HPS410HI History of Mathematics 26S**

An historical survey from pre-Greek to the present. Various themes are emphasized year to year, to show mathematics as changing and evolving. A student could expect to gain an historical overview as well as a sense of the unity of the mathematical sciences.

Prerequisite: HPS309Y1/310Y1/390HI/391HI/MAT220Y1 and permission of instructor

This is a Humanities course

**HPS412HI History of the Biological Sciences 26S**

Advanced level survey of biological science from ancient Greece to the 20th century emphasizing primary sources analyses.

Prerequisite: HPS 200Y1/(210HI + 211HI)/ZOO354Y1/HPS323HI;HPS333HI and permission of instructor

Recommended preparation: BIO150Y1/European history/Philosophy

This is a Humanities course

**HPS427HI Historical Foundations of 26S  
Chemistry**

The development of chemistry from the Chemical Revolution of Lavoisier to the periodic table of Mendeleev: electro-chemistry, the rise of organic chemistry, classification, valency, structural chemistry.

Prerequisite: Permission of instructor

This is a Humanities course

**HPS430HI History of Technology I 26S**

An advanced survey of the history of technology from Antiquity to the Industrial Revolution.

Prerequisite: Permission of instructor

Recommended preparation: HPS201HI/202HI

This is a Humanities course

**HIS431HI History of Technology II 26S**

An advanced survey of the history of technology from the Industrial Revolution to modern times.

Prerequisite: Permission of instructor

Recommended preparation: HPS201HI/202HI

This is a Humanities course

**HPS495YI Individual Studies TBA**

A reading and research project in some aspect of history of science and technology, supervised by a faculty member.

Projects must be approved by the Institute and are subject to availability of a faculty supervisor.

Prerequisite: Two HPS courses

This is a Humanities course

**HPS496HI/ Individual Studies TBA  
497HI**

A reading and research project in some aspect of the social, cultural or intellectual history of science and technology, supervised by a faculty member. Projects must be approved by the Institute by the previous June for a Fall course or by November for a Spring course, and are subject to availability of a faculty supervisor.

Prerequisite: Two HPS courses

**HPS498HI/ Individual Studies TBA  
499HI**

A reading and research project in some aspect of the development of scientific theory or practice, supervised by a faculty member. Projects must be approved by the Institute by the previous June for a Fall course or by November for a Spring course, and are subject to availability of a faculty supervisor.

Prerequisite: Two HPS courses



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## Faculty

### Professors

E.K. Armatage, Ph D

### Associate Professors

R. DiFrancesco, Ph D

C. Keil, Ph D

### Assistant Professors

C. Columpar, Ph D

A. Fenner, Ph D

N. Sammond, Ph D

### Senior Lecturers

C. Messenger, MA

R.E. Riendeau, MA

B.W. Testa, MA

### Lecturers

S. Brail, Ph D

S. English, MA

The courses offered at Innis College are integral to its three academic programs: Cinema Studies; Urban Studies; Writing and Rhetoric.

### Cinema Studies

Cinema Studies treats film primarily as a unique and powerful art form with its own traditions, history, conventions, and techniques. Understanding film, its properties, methods, aesthetics, and its impact on culture and society, is the basis of Cinema Studies. The Program provides a wide variety of approaches: the history and development of cinema; film theory and critical analysis; the study of genres, national cinemas, and the works of individual masters of cinema; and the examination of film in relation to other arts and academic fields.

Further details are available on the Cinema Studies website [[www.utoronto.ca/cinema](http://www.utoronto.ca/cinema)].

Enquiries: Deborah Ohab, Program Assistant, (416-978-5809), [d.ohab@utoronto.ca](mailto:d.ohab@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 third-year course and extensive field research in the fourth-year seminar.

Because urban issues are so varied, a Major or Minor in Urban Studies combines well with Specialists or Majors in many other 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: Innis College Secretary, (416-978-7023), [collegesecretary.innis@utoronto.ca](mailto:collegesecretary.innis@utoronto.ca)

### Writing and Rhetoric

The Minor Program in Writing and Rhetoric is built on a foundation of Innis College courses that cover academic essay writing, rhetoric, critical thinking, creative writing, media analysis, and writing in the workplace. The Program also draws on relevant University of Toronto courses in a range of disciplines. The Program's design reflects three interrelated themes.

#### Writing:

This discipline involves more than instruction in composition skills. Writing is related to rhetoric, logic, reasoning, and critical thinking. One of the main goals of the Program is to ensure that students graduate with a solid grounding in various modes of writing and with highly developed transferable skills.

#### Rhetoric:

Classical rhetorical terms and methods of argumentation and persuasion are central to the study of rhetoric. One of the oldest disciplines in the liberal arts, rhetoric as a contemporary discipline focuses on the influence of discourse on social forces. For the purposes of this Program, rhetoric will, broadly speaking, be used to signify both rhetoric in the classical sense of the term and the patterns of communication identifiable in a variety of disciplines and environments.

#### Critical Analysis:

One of the tenets of the Program is shared by many of the University's Arts and Science disciplines: that problem-solving and creative, persuasive, and effective writing depend on the ability to analyze discourse critically.

Enquiries: Cynthia Messenger, Program Director, Room 314 Innis College (416-978-6508), [cynthia.messenger@utoronto.ca](mailto:cynthia.messenger@utoronto.ca)

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## Innis College Programs

### Cinema Studies (Arts program)

Consult the Program Assistant, Deborah Ohab, (416-978-5809 or [d.ohab@utoronto.ca](mailto:d.ohab@utoronto.ca)) or the Cinema Studies Website: [www.utoronto.ca/cinema](http://www.utoronto.ca/cinema)

Enrolment in the Cinema Studies programs requires completion of INII 15Y and three additional full-course equivalents. A minimum grade of 70% in INII 15Y1 is required.

Note: All Cinema Studies programs are Type 3 (limited enrolment) programs. See Registration Handbook and Timetable for application procedures.

For students applying to the Specialist program, only those with a CGPA of at least 2.5 will be considered. Meeting the minimum GPA requirement may not guarantee admission.

For students applying to the Major program, only those with CGPA of at least 2.3 will be considered. Meeting the minimum GPA requirement may not guarantee admission.

For students applying to the Minor program, only those with CGPA of at least 2.0 will be considered. Meeting the minimum GPA requirement may not guarantee admission.

## Specialist program:

(10 full courses or their equivalent, with at least one at the 400-level and three others at the 300+ level)

First Year:

INI115Y1

Higher Years:

1. INI212Y1, 214Y1
2. One full-course equivalent from Group B
3. One full-course equivalent from Group C
4. Five additional full-course equivalents from Groups B, C, D, E, with no more than two from Group D

## Major program:

(7 full courses or their equivalent, with at least two at the 300/400 level)

First Year:

INI115Y1

Higher Years:

1. INI 212Y1, 214Y1
2. One full-course equivalent from Group B or C
3. Three additional full-course equivalents from Groups B, C, D, or E, with no more than one from Group D

## Minor program:

(4 full courses or their equivalent, with at least one at the 300+level)

1. INI115Y1
2. INI 212Y1 or 214Y1
3. Two additional full-course equivalents from Groups A, B, C, D, or E

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## Group A: Foundations :

INI115Y1, 212Y1, 214Y1

## Group B: Theory and Genre:

INI 224Y1, 226H, 227H, 322Y1, 323Y1, 325Y1, 327Y1, 329Y1, 330Y1, 374HI, 375HI, 383H, 384HI, 396Y1, 397HI, 398HI

## Group C: Cinema, Nation, World:

EAS237Y1, 351HI;; FCS310Y1; FIN 250HI, 260HI; GER 351HI, 352HI; 364HI; HIS 335HI, 459HI, 460HI, 467Y1; HUN 351HI, 451HI; INI 225Y1, 324Y1, 380Y1, 381HI, 382HI, 385Y1, 386HI, 390Y1; ITA240Y1, 340HI, 341HI; 347HI; NEW352Y1; SLA225HI, 226HI, 234HI, 235HI, 244H; SMC354Y1; UNI 335HI

## Group D: Interdisciplinary:

CLA388HI;; FCS 331HI; HIS 345HI, 367HI, 375Y1, 447Y1; NEW308HI; SLA424HI; UNI221HI, 325HI; VIC 311Y1, 411HI; VIS 202HI, 302HI

## Group E: Senior Seminars:

EAS431HI; INI 423HI, 426HI, 428HI, 429H, 460HI, 461HI, 462HI, 463HI, 464HI, 465HI, 476Y1, 477HI, 478HI, 482Y1, 483HI, 484HI; ITA441HI

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## Urban Studies (Arts program)

For Program requirements and information, consult the College Secretary at 416-978-7023 or collegese secretary.innis@utoronto.ca.

Note: All Urban Studies programs are Type 3 (limited enrolment) programs (see Registration Handbook and Timetable for application procedures). As a Type 3 program, the admission process is competitive and meeting minimum CGPA requirements does not guarantee admission.

## Specialist program:

(11 full courses or their equivalent including at least four 300+ series courses with at least one 400-level course)

Enrolment in the Specialist program in Urban Studies is limited. Successful enrolment requires prior enrolment in the Urban Studies Major; completion of ten full-course equivalents, and a mark of at least 70% in INI235Y1.

First Year:

Three of ECO100Y1/105Y1, GGR124Y1, a 100-level POL course or POL214Y1, SOC101Y1

Higher Years:

1. INI 235Y1, 306Y1, 430Y1
2. ECO220Y1/GGR270HI, GGR271HI/POL242Y1/ SOC200Y1/300Y1
3. Four full-course equivalents selected from Groups A through G; no more than one full-course from any group

## Major program:

(7 full courses or their equivalent, including at least two 300+series courses)

For admission to the Major program, a minimum CGPA of 2.3 is required.

First Year:

Two of ECO100Y1/105Y1, GGR124Y1, a 100-level POL course or POL214Y1, SOC101Y1

Higher Years:

1. INI235Y1
2. Either INI 306Y1 or 430Y1
3. Three full-course equivalents from Groups A through G; no more than one full-course equivalent from any group

## Minor program:

(4 full courses or their equivalent, including at least one 300+ series course)

For admission to the Minor program, a minimum CGPA of 2.3 is required.

First Year:

One of ECO100Y1/ECO105Y1, GGR124Y1, a 100-Level POL course or POL214Y1, SOC101Y1.

Higher Years:

1. INI235Y1
2. INI306Y1 or INI430Y1
3. One full course equivalent from Groups A through G

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## Group A: Architecture

FAH 215HI, 216HI, 230231HI, 260HI, 270HI, 272HI, 300HI, 303HI, 309HI, 318HI, 327HI, 330HI, 339HI, 341HI, 364HI, 370HI, 371HI, 372HI, 373HI, 374HI, 375HI, 376HI, 391Y0, 392Y0, 393Y0, 394Y0, 395Y0, 396Y0, 397Y0, 404HI, 418HI, 420HI, 421HI, 470HI, 471HI, 477HI.

## Group B: Economics

ECO 239Y1, 230Y1, 301Y1, 302HI, 303Y1, 307HI, 308HI, 309HI, 310Y1, 313HI, 314HI, 321Y1, 324Y1, 328Y1, 333Y1, 336Y1, 338HI, 339Y1, 340HI, 342Y1, 360Y1, 369Y1, 370Y1,

380HI, 382HI, 418HI, 419HI, 423HI, 424HI, 425HI, 435HI, 450HI, 451HI, 459HI, GGR 220YI, 326HI

### Group C: Geography

GGR 216HI, 240HI, 246HI, 249HI, 252HI, 254HI, 323HI, 324HI, 327HI, 328HI, 339HI, 343HI, 344HI, 346HI, 350HI, 357HI, 361HI, 362HI, 368HI, 431HI, 450HI, 451HI, 452HI, 459HI; JGI 216HI, 346HI, 454HI.

### Group D: History

GGR 336HI, 366HI; HIS 312HI, 313YI, 322YI, 329HI, 332HI, 339YI, 355HI, 360YI, 366YI, 370HI, 376HI, 385YI, 420HI, 474YI, 484HI, INI 428HI.

### Group E: Politics

JPF 455YI; POL 221HI, 304HI, 311YI, 312YI, 314YI, 317YI, 318HI, 321HI, 324YI, 333YI, 336HI, 337YI, 341HI, 343YI, 344HI, 349YI, 351YI, 352HI, 356YI, 401HI, 406YI, 418YI, 425YI, 436YI, 445YI, 447YI, 473HI, 474HI, 475HI, INI 308HI.

### Group F: Sociology

SOC 205YI, 207YI, 210YI, 218YI, 220YI, 243HI, 244HI, 246HI, 247HI, 260YI, 270HI, 278YI, 301YI, 303HI, 304HI, 306YI, 309YI, 310HI, 312YI, 317YI, 320YI, 330YI, 336HI, 339HI, 344YI, 352HI, 354HI, 356YI, 358HI, 364HI, 365YI, 366HI, 367HI, 369YI, 370YI, 382YI, 383HI, 385HI, 386YI.

### Group G: Environment:

GGR 233YI, 256HI, 314HI, 330HI, 331HI, 332HI, 333HI, 334HI, 335HI, 338HI, 393HI, 409HI, 415HI, 435HI; INI 309HI, JGE 221YI, JAG 321HI, JGE 221YI, ENV223HI, 236YI, JIE 307YI, ENV320YI, 321YI, 333HI, 335HI, 340HI, 341HI, 350HI, 420YI, 423HI, 424HI, 446HI.

### Note:

Students may be able to substitute other courses offered by the faculty of Arts & Science, other faculties, Mississauga, and Scarborough for courses listed here. Please consult the Program Director for more details.

### Urban Studies & Sociology - See Sociology

### Writing and Rhetoric (Arts program)

For Program requirements and information, contact Program Director Cynthia Messenger, Innis College (416-978-6508 or cynthia.messenger@utoronto.ca).

### Minor Program:

This is a Type 2 program. See the Registration Handbook and Timetable for application procedures.

### Entrance Requirements:

Students who wish to be considered for enrolment in the Minor program must meet the following requirements. Please note that meeting the minimum GPA requirement does not guarantee admission:

1. Achieve a CGPA of at least 2.3 (any discipline).
2. Complete four full-course equivalents (any discipline).

Requirements for the Minor program: four full courses or their equivalent, as outlined below, including at least one 300/400-level course. Note: No specialist or major degree is available in

this program.

1. 2.5 INI writing courses.
2. 1.5 other full-course equivalents from groups A, B, or C below. Courses outside these lists may be approved by the Program Director.

### Courses For The Minor:

Note: Enrolment in all INI writing courses (except INI412YI) requires completion of 4 full-course equivalents and a CGPA of 2.3. Students do not have to be enrolled in the minor to take INI writing courses.

### Innis Writing Courses

INI 200Y, INI 203YI, 204YI, 300YI, 301HI, 304HI, 305HI, 311YI, INI412YI

### A. Critical Analysis and Reasoning

ARC235HI, 417HI; INI 204YI, 304HI; LIN481HI; PHL 247HI, 275HI, PSY370HI; TRN 190YI, 200YI

### B. Workplace Writing and Media

ARC232HI; FAH443HI; HIS316HI, 482HI; INI 300YI, 301HI, 384HI; PHL295HI, POL475HI; PSY327HI; SMC 219YI, 228YI, 300HI; UNI221HI

### C. Language and Rhetoric

ANT253H, 329Y, 427H; ENG 100HI, 110YI, 205H; 285H; 385H; INI200Y, INI 203YI, 305HI, 311YI, 412Y; JAL328HI, 355HI; JPL315HI; LIN200HI, 201HI, 203HI, 204HI; VIC120YI, 345HI, 350YI; All Vic One Courses.

## Innis College Courses

Listed in this order:

Cinema Studies  
Urban Studies  
Writing and Rhetoric  
Other Innis College courses

### Cinema Studies Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), INI Cinema Studies courses are classified as HUMANITIES courses.

#### INI115YI Introduction to Film Study 26L, 52P, 26T

Introduction to film analysis; concepts of film style and narrative. Topics include documentary, avant-garde, genres, authorship, ideology, and representation.

#### INI212YI Film History 26L, 52P, 26T

An introduction to major phases of international film history from its origins to the present, including screenings and discussion of narrative films representative of film movements, technological innovations, and influential directors. Issues in the writing and reading of film history are examined.  
Prerequisite: INI115YI

#### INI214YI Film Theory 26L, 52P, 26T

A study of select classical and contemporary film theories, their medium-specific arguments, and their cultural and intellectual contexts. Investigations include the nature of film theorizing, formalist and realist traditions, first and second film semiologies,

apparatus theory, and debates specific to spectatorship and film viewing.

Prerequisite: INI115Y1

**INI224Y1 Filmmakers: The Personal Vision (Formerly Authorship in Cinema) 52L, 52P**

Close examination of the careers and works of four auteur directors in commercial film production. (Offered in alternate years)

**INI225Y1 American Popular Film Since 1970 52L, 52P**

Examination of the art of popular film in its social, political, and commercial contexts, through study of selected popular films from 1970 to the present. Various critical approaches, genres, and directors are included.

Exclusion: INI326Y1

**INI226H1 Fantasy and Horror Film 52L, 52P**

Study of fantasy and horror films with emphasis on literary background, political and social contexts and critical interpretations.

**INI227H1 Science Fiction Film 52L, 26P**

Study of science fiction film in its role as a commercial film genre, social allegory and speculation on technology and the future.

Exclusion: ENG238H1

**INI322Y1 Avant-Garde and Experimental Film 52L, 52P**

Film experimentation in the context of modern art and poetry (Cubism, Dada-Surrealism) from the 1920s through the 1990s. (Offered in alternate years)

Exclusion: INI322H1

Prerequisite: INI115Y1

**INI323Y1 Women and Representation 52L, 52P**

Feminist film criticism from mid-sixties critiques of media stereotypes of women to current issues in feminist film theory. Films to be studied include mainstream narrative fiction and films by women directors: Von Sternberg, Godard, Sirk, Arzner, Dulac, Lupino, Von Trotta, Rainer, Akerman, Duras. (Offered in alternate years)

Prerequisite: INI115Y1/NEW260Y1

**INI324Y1 American Filmmaking in the Studio Era 26L, 52P, 26T**

A study of filmmaking in the US once the studio system was in place; consideration of industrial, economic, ideological, and aesthetic dimensions of the American studio era. Topics include the primacy of classicism, the operations of the studio system (including censorship, labour relations, marketing, and star promotion), and the cultural function of American films. (Offered in alternate years)

Prerequisite: INI115Y1

**INI325Y1 Documentary Film 52L, 52P**

A critical survey of documentary practice including newsreels, direct cinema, cinema vérité, ethnographic, and various hybrid narrative forms, with emphasis on the rhetorical, aesthetic, and political dimensions of "the art of record." Topics include poetics, argument, and modes of address; evidence, authenticity, and persuasion; filmmaker/subject/audience nexus; historiography, hagiography, and memory; reflexive irony and performance. (Offered in alternate years)

Prerequisite: INI115Y1

**INI327Y1 Race and Representation 52L, 52P**

Theories of cinematic representation emphasizing race, identity, and Diaspora, with an emphasis on post-colonial and critical race theories. Films include works from Africa and the black Diaspora, as well as selections from aboriginal and other diasporic communities. Films by Mambety, Julien, Dash, Cisse, Akomfrah, Moffat, Sembene. (Offered in alternate years)

Prerequisite: INI115Y1

**INI329Y1 Theories of Film Genres and Filmic Narration 26L, 52P, 26T**

Study of theoretical and analytical models of film genres and narratology; structuralist, cognitive, and semiotic approaches to filmic narration. Genres to be studied include westerns, crime films, art cinema, fantasy, and horror. (Offered in alternate years)

Prerequisite: INI115Y1

**INI330Y1 Contemporary Film Theory: The Screen Revolution 52L, 52P**

Film theory since the early 1970s. Topics include the critique of realism, suture, spectatorship, genre, the cinematic apparatus, race, and queer cinema. Films are screened as illustrations of the theoretical texts: Welles, Sirk, Godard, Duras, Potter, Ottinger, Julien. (Offered in alternate years)

Exclusion: INI 425Y1, 481Y1

Prerequisite: INI 115Y1, 214Y1

**INI374H1/ 375HI Problems in Film Authorship (I & II) 52L, 52P**

Advanced study of problems in film authorship through the intensive examination of one or more major filmmakers. (Offered in alternate years)

Prerequisite: INI115Y1

**INI380Y1 Contemporary World Cinema 52S**

An intensive survey of world cinema since 1970, from Africa, Asia, Australia, South and North America, and Europe. (Offered in alternate years)

Prerequisite: INI115Y1

**INI381H1 Aspects of a National Cinema 52S**

In-depth treatment of a national cinema in a seminar format. (Offered in alternate years)

Prerequisite: INI115Y1

**INI382H1 European Cinemas 26L, 26P**

Comparative study of European film production and culture: inter-war and post-war developments; contemporary tendencies (co-production, continental unification, immigration). (Offered in alternate years)

Exclusion: INI382Y1

**INI383H1 The Origins of the Animation Industry, 1900-1950: A Technosocial History 26S, 26P**

An introduction to early animation, considering its vaudeville roots, its industrialization, and its 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. (Offered in alternate years)

Prerequisite: INI115Y1, INI212Y1

**INI384H1 Critical Writing on Film (formerly INI384Y1) 26S**

The practice of film criticism with concentration on film reviews and scholarly articles. The study of examples of such work is the focus of the seminars supplemented by practical

sessions involving process writing and collaborative editing. (Offered in alternate years)

Exclusion: INI384Y1, NEW304Y1

Prerequisites: Any 2 courses from Group A (INI115Y; 212Y; 214Y) and 2 additional Cinema Studies full course equivalents.

**INI385Y1 Cinema in Canada 26L, 52P, 26T**

Critical study of Canadian cinema from its inception to the present. (Offered in alternate years)

Exclusion: INI385HI; NEW 311HI

Prerequisite: INI115Y1

**INI386HI Quebec Cinema 13L, 26P, 13T (formerly INI486HI)**

The range of French-language filmmaking in Quebec within the context of efforts to establish a distinct national identity from the 1940s to the present day. (Offered in alternate years)

Exclusion: INI486HI/NEW312HI

Prerequisite: INI115Y1

**INI390Y1 Contemporary Chinese Cinemas 52L, 52P**

Examination of contemporary Chinese films in their three production centres: the People's Republic of China, Taiwan, and Hong Kong. Production, commercial and aesthetic trends, and international reception; major auteurs and genres. Directors include Chen Kaige, Zang Yimou, Edward Yang, John Woo, and Wang Kar-wai. (Offered in alternate years)

Exclusion: INI390H

Prerequisite: INI115Y1

Recommended preparation: INI 212Y1, 214Y1

**INI396Y1/ Special Topics in Cinema Studies TBA 397HI/ 398HI**

Seminars in special topics designed for specialist and major students in Cinema Studies.

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI423HI Melodrama in Film 26S, 26P**

Intensive study of theoretical issues raised by melodrama, including gender, class, and spectatorship; emotion and the non-representational. Psychoanalytical and historical factors shaping the "melodramatic imagination" are emphasized.

Exclusion: INI423Y1

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI426HI Film Comedy 26S, 26P**

A study of international film comedy, including its historical development, and the difficulties that comedy poses for genre and auteur approaches.

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI428HI The Cinematic City 26S, 26P**

Film's emergence from urban culture of the nineteenth century: the modern industrial city and the cinematic imagination between the world wars; the critical alignment of urbanism and the cinema.

Exclusion: INI321HI

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI429HI The Revolution Will/Will Not Be Televised 26L, 26P**

Examining the mediation of political struggle from 1964-1974, this course analyzes both how specific political issues were represented in popular media, and attempts to politicize and question representational regimes. Its primary focus will be cinematic and televisual, but by necessity it will also touch upon radio and the recording industry.

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI460HI Film Noir 26S, 26P**

Consideration of film noir's roots, its status as a genre, and its enduring appeal, the latter evidenced by continued critical interest and neo-noir offshoots.

Prerequisite: At least full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI461HI Models of Film Analysis 26S, 26P**

Advanced survey of a variety of approaches to the filmic text, including structuralist variants, textual analysis, and neo-formalism.

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI462HI Theory, History and German Cinema 26S, 26P**

Historiographic and theoretical issues raised by German Cinema.

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI463HI Early Cinema 26S, 26P**

Investigation of film from the beginnings of the medium until the advent of the feature film in the mid-teens: early cinema's technological, formal, economic, and cultural dimensions; questions of audience composition, spectatorial address, and intermediality.

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI465HI Cinema and Technology 26S, 26P (formerly INI483HI)**

How technology influences the operations and study of cinema. Includes technology's relationship to realism, apparatus theory, and cinematic style; study of widescreen, sound, colour, and emergent technologies.

Exclusion: INI483HI

Prerequisite: At least ten full-course equivalents, including INI115Y1, 212Y1, 214Y1 or permission of instructor.

**INI475HI Advanced Studies in Cinema: Corporeality and Cinema 26S**

Films regularly offer up human bodies as both sources of visual fascination and texts expressive of deeper truths. This course examines the ways cinema constructs bodies so as to produce affect and bear meaning in a variety of traditions and genres, from melodrama to action films, ethnographic cinema to pornography.

Prerequisite: INI 115Y, INI 214Y, INI 212Y

**INI476Y1/ Independent Studies in Cinema TBA 477HI/ 478HI**

Independent research projects devised by students and supervised by Cinema Studies faculty. Open to advanced Specialist and Major students in the Program. Applications must be submitted to the Program Office by June 1 for a Fall

course, by November 1 for a Spring Course, and by April 1 for a summer course.

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of the Cinema Studies Committee

**INI482Y1/ 483H1/ 484H1**      **Advanced Studies in Cinema**      **TBA**

Seminars in special topics designed for advanced specialist and major students in Cinema Studies.

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

## Urban Studies Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all INI Urban Studies courses are classified as SOCIAL SCIENCE courses.

**INI235Y1**      **A Multidisciplinary Introduction to Urban Studies**      **52L**

Explores the culture, thoughts, institutions, policies, and processes shaping our urban areas. Emphasis is placed on understanding the problems and prospects associated with growth and change in the city. Disciplines used to provide various interpretations include Economics, Environmental Studies, Geography, History, Political Science, Sociology, Urban Design and Planning.

Prerequisite: Four courses with at least two from: ECO100Y1, ECO105Y1, GGR124Y1, a 100-level POL course or POL214Y1, SOC101Y1 or permission of the instructor

**INI306Y1**      **Urban Experiential Learning in Toronto & the GTA**      **78S**

A method of studying city issues that combines readings, seminar discussions, and lectures with an internship in the office of a municipal politician, local government, or non-profit research/community organization. Readings focus on community development, urban planning, economic development and local government. Students must fill out a ballot for the course (available from the College Secretary) by June 30th. Enrolment in this course is competitive and at the discretion of Dr. Shauna Brail (Director, Urban Studies Placement Program).

Prerequisite: INI235Y1, enrolment in minor, major or specialist programs in Urban Studies or permission of instructor

**INI335Y1**      **The Changing Dynamics of Cities**      **26L**

IN this course, students develop an understanding of the city as a dynamic organism that is constantly changing as a result of economic, social and political pressure. The course material is organized around a series of industry cluster case studies including: automotive, culture, information technology and health care. The emphasis of the course will be on the extension and refinement of theories and arguments developed in INI235Y.

Prerequisite: INI235Y. 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. Note: INI335Y cannot be taken concurrently with INI235Y.)

**JIE307Y1**      **Urban Sustainability (formerly INI307Y1)**      **52L, 26P**

This course critically examines the concept of urban sustainability in theory and application. Case studies of ongoing urban sustainability programs in the developed 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.

Prerequisite: One of the following: JEG221Y/JIE222Y1 and enrolment in a Centre for Environment program OR INI235Y1 OR permission of the instructor (particularly for students who have completed JEG222Y1/JIE222Y1/ GGR233Y1/POL209Y1/SOC205Y1/260Y1)

Exclusion: INI307Y1

This is a Social Science course

**INI308H1**      **The City of Toronto**      **52L, 26P**

Examines the struggle to create a civic society within Toronto as it becomes a global city. Sample topics include: the neighbourhood and the city, the outer city and the urban region, planning and sprawl, public and private transportation, the natural and the urban environment, housing and homelessness, levels of government, civic culture and multiculturalism.

Prerequisite: One of the following: a 100 level Political Science, GGR124Y1, INI235Y1, SOC101Y1, or permission of the instructor.

**INI309H1**      **Urban Infrastructure**      **52L, 26P**

Examines the importance of infrastructure to urban societies from a technical, environmental, political, historical, and social perspective. Students study energy and communications systems, transportation, water; solid waste disposal, parks and recreation facilities, schools, hospitals, and community facilities and services. Key issues include growth management, financing and maintenance, public-private partnerships, and international development.

Prerequisite: One of the following: INI235Y1 or permission of the instructor.

**INI430Y1**      **Urban Policy Seminar**      **52S**

Examines contemporary urban problems and policy issues through seminar discussions, readings and field research. Emphasis is placed on developing an interdisciplinary approach to urban problem solving.

Prerequisite: INI235Y, enrolment in a minor, major or specialist program in Urban Studies, or permission of instructor.

**INI431Y1/ 432H1/ 433H1**      **Special Topics in Urban Studies**      **TBA**

From time to time, the Urban Studies Program organizes community outreach and information sessions. At the discretion of the Director, students may enroll in a special topics course and investigate these issues more deeply under the supervision of an agreeable faculty member. Proposals including a letter from an agreeable faculty member should be submitted to the Director by June 1 for a Fall or Year-long course, or by November 1 for a Spring course.

Prerequisite: Enrolment in a major or specialist program in Urban Studies.

Recommended Preparation: INI235Y, INI306Y.

**INI434YI/ 435HI/ 436HI**      **Independent Research in Urban Studies**      **TBA**

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 departments. 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.

Prerequisite: Enrolment in the Urban Studies Major or Specialist Program

Recommended Preparation: INI235YI, INI306YI

**JGI216HI**      **Urbanization and Global Change**      **26L**

Examines the process of globalization, mass urbanization and economic change taking place in cities around the world. Includes interdisciplinary exploration of the industrial and economic changes that have ensued as a result of globalization, as well as social and cultural manifestations associated with the emergence of global cities.

Recommended Preparation: GGR124YI

**JGI346HI**      **The Urban Planning Process**      **26L**

Urban planning mechanisms, the legislation, and its goals. Planning issues from negotiation to legislation to appeal. Urban and regional problems facing planners in Ontario compared with those emerging in other provinces; Ontario's legislative solutions contrasted with those developed elsewhere. (Given by the Department of Geography and Innis College)

Recommended Preparation: GGR124YI

**JGI454HI**      **The Role of the Planner: Making a Difference**      **26L**

This course will focus 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 new City of Toronto Act.

Prerequisite: 15 credits, 5.0 of which must be GGR/INI Urban Studies

## Writing and Rhetoric Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), Writing and Rhetoric courses are classified as HUMANITIES courses, except for INI 300YI, 301HI, 304H, 405YI/406HI/407HI, and 408YI/409HI/410HI which are classified as both HUMANITIES and SOCIAL SCIENCE courses.

**INI200YI**      **Writing Essays and Reports**      **78S**

Teaches the fundamentals of essay and report writing within an interdisciplinary context. Includes the history of the essay and its various rhetorical modes (narrative, descriptive, expository, argumentative), with a focus on the academic essay. Research

and workplace reports are examined in terms of purpose, audience, and persuasive strategies.

Prerequisite: Completion of 4.0 full-course equivalents and CGPA of 2.3 or higher.

**INI203YI**      **Foundations of Written Discourse**      **78S**

Designed to teach students to write persuasively and to recognize persuasive strategies at work in writing they analyze. Classical rhetorical terms, elements of style, and modes of argument are central to the course. Assignments include a rhetorical analysis, in-class essays, and a term essay. Readings include prose from a variety of disciplines, excluding fiction and poetry. Students who enrol in the course must demonstrate competence in the English language.

Prerequisite: Completion of 4.0 full-course equivalents and CGPA of 2.3 or higher.

**INI204YI**      **The Academic Writing Process**      **78S**

The strategy necessary to write complete pieces of non-fictional prose, especially exposition and argument. Concepts of planning and organization include: focusing, research, outlining, patterns of logical development, introduction, paragraph development, conclusion, argumentation and persuasion, documentation, and revision. Students for whom English is a second language should have an advanced level of fluency in English before enrolling.

Prerequisite: Completion of 4.0 full-course equivalents and CGPA of 2.3 or higher.

**INI300YI**      **Strategic Writing in Business and the Professions: Theory and Practice**      **78S**

Aims to teach students to recognize the rhetoric of the professional workplace and to communicate strategically and ethically using written and oral discourse appropriate to business, government, and not-for-profit organizations. Case study analysis using ethical reasoning models is a central component of the course.

Prerequisite: Completion of 4.0 full-course equivalents and CGPA of 2.3 or higher.

**INI301HI**      **Contemporary Issues and Written Discourse: Rhetoric and the Print Media**      **39S**

Examines how the language and rhetoric of print media shape social issues. Rhetorical strategies at work in the media reporting of such controversial issues as international crises and military actions are examined. The construction of the columnist's persona and the role of editorials are also examined.

Prerequisite: Completion of 4.0 full-course equivalents and CGPA of 2.3 or higher.

**INI304HI**      **Critical Thinking and Inquiry in Written Communication**      **26L**

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 full-course equivalents and CGPA of 2.3 or higher.

**INI305HI**      **Word and Image in Modern Writing**      **39S**

The rhetorical term Ekphrasis, which refers to writing that is about visual art, is central in the examination of the persuasive

# Innis College

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power of the “conversation” or discourse that is produced when the written word attempts the evocation of visual images. Course readings will include ekphrastic texts drawn from several disciplines and genres: journalism, informal essays, poetry, and scholarly writing.

Prerequisite: Completion of 4.0 full-course equivalents and CGPA of 2.3 or higher.

## **INI311Y1 Seminar in Creative Writing 78S**

This workshop course examines methodological approaches to literary fiction from the perspective of the creator. Through course readings, discussion, and creative writing assignments, student writers will learn how prose writers combine stylistic techniques, point-of-view, setting, character, scenes, and structure to produce literary effects.

Prerequisite: Experience or strong interest in writing fiction. 4.0 full-course equivalents, fluency in English. CPA 2.3 minimum.

## **INI405Y1/ 406HI/ 407HI Independent Studies in Writing and Rhetoric TBA**

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.

Prerequisite: At least ten full-course equivalents including INI 203Y1 or 204Y1 and INI 300Y or 301H or 304H or 305H or 311Y; permission of Program Director

## **INI408Y1/ 409HI/ 410HI Special Topics in Writing and Rhetoric TBA**

Seminars in special topics designed for students who are completing the Minor Program in Writing, Rhetoric, and Critical Analysis.

Prerequisite: At least ten full-course equivalents including INI 203Y1 or 204Y1 and INI 300Y or 301H or 304H or 305H or 311Y; or permission of instructor

## **INI412Y1 Prose Style Across Genres 39L, 39S**

Focuses on methods for analyzing how various aspects of style shape the meaning of texts in such genres as fiction, biography, oratory, legal argument, science writing, and government reports. Also considers historical and theoretical perspectives on style. Requires a research project, which for qualified students may include a translation.

Prerequisite: 10 full course equivalents; CGPA of 2.3 or higher  
Recommended Preparation: INI 200Y, INI203Y1 or 204Y1

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### **Other Innis College Courses**

#### **INI299Y1 Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**International Relations: see Trinity College**

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## Faculty

### Professors Emeriti

M. Ciavolella, Ph D  
A. Franceschetti, Dott in Lett, Ph D  
M. Kuitunen, Dott in Lett, MA, Phil M, Ufficiale Ord.  
Merit It. Rep.  
J.A. Molinaro, MA, Ph D, FRSC  
M.W. Ukas, MA, Ph D

### Professor and Chair of the Department

D. Pietropaolo, MA, Ph D (SM)  
Commend. Rep. It

### Associate Professor and Associate Chair

S. Bancheri, MA, PhD (University of Toronto Mississauga)

### Professors

R. Capozzi, MA, Ph D  
K. Eisenbichler, MA, Ph D (V)  
F. Guardiani, Dott in Lett, MA, Ph D (SM)  
M. Lettieri, MA, Ph D (University of Toronto Mississauga)  
O.L. Pugliese, MA, Ph D (V)

### Associate Professors

M. Gieri, Dott in Lett, Ph D (I)  
L. Somigli, Dott in Lett, Ph D

### Senior Lecturers

R. Longo Lavorato, MA, Ph D  
B. Magliocchetti, MA  
M. Pasquarelli-Clivio, MA, Ph D (SM)  
M. Scarci, MA, Ph D  
A. Urbancic, B Ed, MA, Ph D (V)

To study Italian is not only to acquire a language, but also to study a rich literature and 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 for students with an Italian background. 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-series 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 and linguistics. Except for specialists and majors, it is not necessary to take language courses in the 300- and 400-series, but language courses may be taken without literature courses. In addition, there are courses in culture, cinema and theatre that 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 Elsewhere program in conjunction with the International Student Exchange Office.

Undergraduate Coordinator: 416-926-2338

Email: [italian.undergrad@utoronto.ca](mailto:italian.undergrad@utoronto.ca)

Enquiries:  
100 St. Joseph St. Room 204 (416-926-2345)

Web site:  
<http://www.utoronto.ca/italian/>

## Italian Studies Programs

Enrolment in the Italian Studies programs requires the completion of four courses; no minimum GPA required.

### Italian (Arts program)

#### Specialist program:

(10 full courses or their equivalent, including at least one full course equivalent at the 400 level)

- ITA 100Y1/101Y1/102Y1/110Y1/(133H1, 134H1)/152Y1
- One of the following series of courses.
  - ITA 250Y1, (343H1,344H1) (Prerequisite ITA 100Y1/102Y1(133H1, 134H1))
  - ITA 251Y1,(354H1,355H1) (Prerequisite ITA 101Y1/110Y1)
  - ITA 252Y1, (364H1,365H1) (Prerequisite ITA 152Y1)
- Two 200-series ITA courses including ITA 250Y1/251Y1/252Y1
- Two full courses or equivalent at the 300+ level in literature. Students must complete at least ONE half course in THREE separate periods of Italian literature.
- Four additional ITA 300+ series courses with at least one full course equivalent at the 400-level.
- No more than TWO full courses or equivalent where the language of instruction is English may be counted towards the Specialist Program.

#### Major program:

(7 full courses or their equivalent)

- ITA 100Y1/101Y1/102Y1/110Y1/(133H1, 134H1)/152Y1
- Two 200-series courses including ITA 250Y1/251Y1/252Y1 or JFI 225Y1
- One full course or equivalent at the 300+ level in literature
- Three additional ITA 300+ series courses (ex-beginners must include ITA 343H1 and 344H1 in their selection)

#### Minor program:

(4 full courses or their equivalent)

Any 4 ITA courses (at least one full course equivalent must be a 300/400-level literature course)

# Italian Studies

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## Italian Culture and Communication Studies (Arts program)

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### Minor program:

4 full courses (or equivalent) including ONE full course equivalent from any of the following:  
ITA 340H1/341H1/441H1/347H1/360H1/361H1/363H1/  
430H1/356Y1/357Y1/358Y1/359Y1/371H1/372H1/385H1/  
471H1/472H1/473H1

## Second Language Learning (Italian) (Arts program)

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### Major program:

(7 full courses or their equivalent)

1. ITA 100Y1/101Y1/110Y1/(133H1, 134H1) (all with minimum 73%)/152Y1
2. JFI 225Y1
3. ITA 250Y1/251Y1/252Y1/253Y1
4. One full course or equivalent at the 300+ level in literature
5. At least one full-course equivalent from: ITA 360H1, 361H1, 363H1, 430H1
6. Two additional ITA 300/400-series courses

See also **Modern Languages and Literatures; Linguistics and Languages; Cinema Studies (listed with Innis College); Drama; European Studies; Renaissance Studies (listed with Victoria College); Women and Gender Studies**

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## Italian Studies Courses

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For Distribution Requirement purposes (see page 27), all ITA courses are classified as HUMANITIES courses.

### HUM199H1/Y1 First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

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### Note

#### Guidelines for the selection of first-year language courses:

ITA152Y1: for students who have completed OAC/4U Italian at the high school level (or equivalent).

ITA101Y1: for students who have some passive knowledge of Italian (or an Italian dialect) or some secondary school training in Italian (but not at the senior level OAC/4U).

ITA100Y1: for students who have neither passive knowledge nor any secondary school training in Italian.

Students with an adequate knowledge of Italian may substitute for the language courses and half-courses in the First and Second years another course or half-course, subject to the permission of the Department. The Department reserves the right to place students in the language course appropriate to their level of language skill.

### ITA100Y1 Italian Language for Beginners 78S

An introduction to the main elements of the Italian language. The development of speaking, reading, and writing skills. Introduction to linguistic analysis of literary prose excerpts. Exclusion: Grade 10 Italian/ITA101Y1/102Y1/110Y1/(133H1, 134H1)/142Y1/152Y1 (Not open to students with a knowledge, however passive, of an Italian dialect)

### ITA101Y1 Elementary Italian Language 78S

Main elements of Italian grammar for students who have some passive knowledge of Italian or an Italian dialect or some secondary school training in Italian (but not at the senior OAC/4U level). Introduction to linguistic analysis of literary prose excerpts. Exclusion: OAC/4U Italian/ ITA100Y1/102Y1/110Y1/(133H1, 134H1)/142Y1/152Y1

### ITA102Y1 Italian for the Arts 78S

An introduction to Italian, both spoken and written, with special emphasis on lexicon and structures useful to students in the Arts. Exclusion: Grade 10 Italian/ITA100Y1/101Y1/110Y1/(133H1, 134H1)/142Y1/152Y1

### ITA135Y0 Conversation and Culture: An Introduction to Italian 78S

The course is designed to introduce students to Italian grammar and develop basic oral and comprehension skills. Elements of Italian culture, past and present, are also examined in the context of language and communication. To select the appropriate second-year follow-up course, students are asked to contact the Undergraduate Coordinator. (Offered in Siena only)

### ITA142Y1 Intensive Language Practice 78S

This is a course designed for students who wish to maintain and improve their general knowledge of Italian without wishing to specialize. Acquiring the ability to communicate effectively in a variety of situations is a priority, while less emphasis is placed on the traditional teaching of grammar and on essay writing. This course counts toward the minor programs only. Exclusion: ITA100Y1/101Y1/102Y1/110Y1/(133H1, 134H1)/152Y1

Prerequisite: Italian OAC/ 4 U or permission of Department

### ITA152Y1 Language Practice 78S

A review of grammar, the writing of short compositions, and oral practice. Linguistic analysis based on readings of contemporary literary texts. Exclusion: ITA100Y1/101Y1/102Y1/110Y1/(133H1, 134H1)/142Y1

Prerequisite: Italian OAC/4 U or permission of Department.

### ITA210Y1 Contemporary Italy 52S

An analysis of literary, social and artistic movements, whose aim is to better understand the conditions that prevail in modern Italy. This course includes a component designed to introduce students to methods of scholarly research appropriate to the field. (Given in English)

### ITA220H1 Introduction to Italian Literature: Prose 26L

Reading of selections of Italian prose works, with emphasis on linguistic and stylistic features. Texts to be read in Italian; both English and Italian will be used as language of instruction, as appropriate. This course includes a component designed

to introduce students to methods of scholarly research appropriate to the field.

Prerequisite: ITA100Y1/101Y1/152Y1

**ITA221HI Introduction to Italian Literature: Poetry 26L**

Reading of selections of Italian poetry, with emphasis on linguistic and stylistic features. Texts to be read in Italian; both English and Italian will be used as language of instruction, as appropriate. This course includes a component designed to introduce students to methods of scholarly research appropriate to the field.

Prerequisite: Ita100Y1/101Y1/152Y1

**JFI225Y1 Second Language Learning 52S**

A theoretical and practical consideration of the ways we learn a second language, with a historical overview and critical evaluation of the various methodologies that have been developed; the role of cultural studies in language learning, practical evaluation and development of syllabus, course and textbook materials. This course includes a component designed to introduce students to methods of scholarly research appropriate to the field.

Prerequisite: FSL161Y1(73%)/181Y1/ITA100Y1/101Y1/102Y1/110Y1/(133HI, 134HI) (all with a minimum of 73%)/152Y1

**ITA233Y1 Ethnicity and Mainstream Italian Canadian Culture 52L**

An examination of the Italian presence in Canada from the time of John Cabot (Giovanni Caboto) to the present through an analysis of literary and other texts and a consideration of sociological and linguistic phenomena. This course includes a component designed to introduce students to methods of scholarly research appropriate to the field. (Given in English)

**ITA235Y0 Conversation and Culture: Intermediate Italian Intensive Oral Practice 78S**

This course is designed to enhance students' oral proficiency in Italian, improve listening and reading comprehension and develop a broad lexical base for more effective communicating skills. Elements of Italian culture are also examined in the context of language and communication through a series of topical readings which form the basis of discussion. (Offered in Siena only)

Exclusion: ITA252Y1 (and/or higher)

Prerequisite: ITA100/101/102/(133HI,134HI)/135Y1/142/152 or permission of Department.

**ITA240Y1 Italian Cinema 52L, 78P**

An overview of Italian cinema from its early days to the present, which also offers a survey of Italian 20th Century history and culture. The course features films by masters Rossellini, DeSica, Fellini, Antonioni, Bertolucci, Pasolini and works by younger filmmakers, such as Academy Award winners Tornatore, Salvatores and Benigni. 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.

**ITA245Y1 Italian Culture & Civilization 26L, 26T**

The main elements of Italian civilization from the time of Dante until the present in literature, art, and thought with reference to political history where appropriate. This course includes a component designed to introduce students to methods of scholarly research appropriate to the field. (Given in English)

Exclusion: ITA246HI/247HI/248Y1/(356/357Y1)/(358/359Y1)

**ITA249HI Italians in China: From Marco Polo to Matteo Ricci 26L**

The course focuses on two historical encounters of Italian civilization with imperial China: One made possible by the immensely popular book, *Il Milione*, an account of several years of Asian travels by the Venetian merchant Marco Polo (1245-1324), the other by the writings by Matteo Ricci (1552-1610) and other Jesuits, Catholic Missionaries. This course includes a component designed to introduce students to methods of scholarly research appropriate to the field. (Given in English)

**ITA250Y1 Intermediate Italian 78S**

Grammar review, readings of Italian authors and oral practice to enhance comprehension and expressive skills.

Exclusion: ITA152Y1/251Y1/252Y1/253Y1 (Not open to students with a knowledge of an Italian dialect)

Prerequisite: ITA100Y1/102Y1/(133HI, 134HI)

**ITA251Y1 Intermediate Italian II 78S**

A review of Italian grammar; readings of Italian authors and one hour of oral practice.

Exclusion: ITA152Y1/250Y1/252Y1/253Y1

Prerequisite: ITA101Y1/110Y1/(133HI, 134HI) or permission of department.

**ITA252Y1 Written and Oral Expression in Italian 78S**

A study of fundamental grammatical structures with special emphasis on vocabulary and syntax. Some attention is paid to stylistics. Linguistic analysis of literary texts. One hour a week is devoted to oral practice.

Exclusion: ITA250Y1/251Y1/253Y1

Prerequisite: ITA152Y1

**ITA253Y1 Italian for Business Communication 78S**

A review of Italian grammar. Development of oral and written skills, especially as they pertain to the world of business and finance.

Exclusion: ITA250Y1/251Y1/252Y1

Prerequisite: A first-year ITA language course

**ITA271Y1 Translating I 26L, 26T**

An introduction to the problems of translation from English into Italian and Italian into English. Specific treatment of common difficulties and extensive exercises.

Prerequisite: Permission of Department

**ITA299Y1 Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**ITA300HI History of Italian Literature: Middle Ages and Renaissance 26L**

This course provides a comprehensive view of Italian literature from its beginnings to the Renaissance, by focusing on the major authors. This course includes a component designed to enhance students' research experience.

Exclusion: ITA300Y1

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

**ITA301HI History of Italian Literature: Baroque to Contemporary 26L**

This course provides a comprehensive view of Italian literature from the Baroque period to the present day, by focusing on the major authors. This course includes a component designed to enhance students' research experience.

Exclusion: ITA300Y1

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

# Italian Studies

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## **ITA310HI The 'Journey' in the 19th Century 26L**

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.

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

## **ITA311HI Mediaeval Italian Literature 26L in Translation: Dante**

A study of the Vita Nuova and of the Divine Comedy within the literary and cultural context of the Middle Ages.

This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: ITA320Y1/321Y1 /320HI/321HI

## **ITA312HI Mediaeval Italian Literature in 26L Translation: Petrarch and Boccaccio**

A study of the Petrarch's Canzoniere and of Boccaccio's Decameron considered in relation to the later Middle Ages.

This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: ITA325HI/427HI

## **ITA320HI Dante: Vita Nuova and Divina 26L Commedia (Inferno)**

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 his complex vision of contemporary society within the framework of providential history. This course includes a component designed to enhance students' research experience.

Exclusion: ITA311HI/320Y1

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

## **ITA321HI Dante: Divina Commedia 26L (Purgatorio and Paradiso)**

A continuation of ITA320HI, 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.

Exclusion: ITA311HI/320Y1

Prerequisite: ITA320HI

## **ITA325HI Themes and Forms of the Lyric 26L Tradition from Petrarch to Tasso.**

A comprehensive view of the Italian lyric tradition focusing on the distinctive elements of the genre, from the establishment of the canon with Petrarch to its amplification with Tasso. This course includes a component designed to enhance students' research experience.

Exclusion: ITA325Y1/ITA312HI

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

## **ITA326HI Themes and Forms of the Lyric 26L Tradition from Late Renaissance to 20th Century**

A chronological review of the forms and themes of the lyric tradition from Marino, who revised the genre inherited from the Petrarchists and Tasso, to the numerous variations of the genre culminating in the love poetry of D'Annunzio.

This course includes a component designed to enhance students' research experience.

Exclusion: ITA325Y1

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

## **ITA330HI The Christian 'Epic' 26L**

Italy's foremost writers' conscious attempt to write the great representative ("epic") work of their age: this course explores their struggle to find the appropriate language, style, and genre to express their vision of history. This course includes a component designed to enhance students' research experience.

Exclusion: ITA330Y1

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

## **ITA332HI Love in the Renaissance 26L**

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, homosexuality and other issues. This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: ITA345HI

## **ITA334HI Italian Canadian Literature I: 13L, 13T Life in a New World**

Works by first- and second-generation authors of Italian background. Among the themes explored: Italians as "pioneers", the Italian perception of Canada, the immigrant experience, the immigrants' encounter with a new world, their sense of discovery and the process of cultural adaptation. This course includes a component designed to enhance students' research experience. (Texts available in both Italian and English.) (Given in English)

## **ITA340HI Italian Neorealist Cinema I 26L, 39P**

An analysis of the neorealist period in Italian cinema, and its relation to the political and social climate of post-war Italy. Screenings include selections from the major exponents of Italian neorealism: Rossellini, DeSica, and Visconti, among others. This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: ITA340Y

Recommended preparation: ITA240Y1

## **ITA341H Italian Neorealist Cinema II 26L, 39P**

The evolution of Italian cinematic neorealism and its historical heritage is examined in the early films of Fellini, Antonioni, Pasolini and others. This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: ITA340Y

Prerequisite: ITA340HI or permission of Department.

## **VIC341HI The Self and Society in the Renaissance**

See Victoria College Courses

## **VIC343Y1 Sex and Gender in the Renaissance**

See Victoria College Courses

## **VIC344HI Renaissance Narrative**

See Victoria College Courses

## **ITA343HI Language Practice I 39S**

Discussion of problems of grammar and composition with special emphasis on the noun phrase. 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.

Exclusion: ITA252Y1/350Y1/351Y1/352Y1/353Y1/  
(354HI,355HI)/(364HI,365HI)

Prerequisite: ITA250Y1/253Y1

**ITA344HI Language Practice II 39S**

Discussion of problems of grammar and composition with special emphasis on the verb phrase. 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.

Exclusion: ITA252Y1/350Y1/351Y1/352Y1/353Y1/(354H,355H1)/(364H,365H1)

Prerequisite: ITA343HI

**ITA346HI Monsters and Marvels in Italian Modernist Literature 26L**

In this course we consider how in nineteenth- and twentieth century literature, fantastic and monstrous figures reflect the anxieties of the modern subject over the social, economic and existential transformations wrought by modernity. The course may include works by Tarchetti, Arrigo Boito, Capuana, Marinetti, Rosa, Bontempelli, Pirandello, Savino, and Landolfi. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

**ITA347HI Studies in Italian Cinema 26L,39P**

This course focuses on issues of "genre" and "authorship" in the context of a general discussion of Italian film-making as a national and popular tradition. This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: ITA342Y1

Recommended preparation: ITA240Y1

**ITA354HI Language Practice (Dialect Speakers) I 39S**

For students who have a familiarity with an Italian dialect. Discussion of problems of grammar and composition with special emphasis on the noun and its derivatives. 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.

Exclusion: ITA252Y1/(343HI,344HI)350Y1/351Y1/352Y1/353Y1/(364H,365H)

Prerequisite: ITA251Y1/253Y1

**ITA355HI Language Practice (Dialect Speakers) II 39S**

For students who have a familiarity with an Italian dialect. Discussion of problems of grammar, style and syntax. 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.

Exclusion: ITA252Y1/(343HI,344HI)350Y1/351Y1/352Y1/353Y1/(364H,365H)

Prerequisite: ITA354HI

**ITA356Y0/ Italian Culture from the Middle Ages to the Renaissance 26L, 26T 357Y0**

A survey of artists, writers, and thinkers from the time of Dante to the days of Leonardo. During field trips, the streets, squares, churches, and palazzi of many cities serve as living laboratories for a discussion of the topography of mediaeval and Renaissance cities. This course includes a component designed to enhance students' research experience. (Offered in Siena only.)

ITA 356Y0: This course is taught in English and is open to students from other disciplines.

ITA 357Y0: 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

Exclusion: ITA245Y1/246HI/248Y1

**ITA358Y0/ Modern Italian Culture 26L, 26T 359Y0**

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)

ITA 358Y0: This course is taught in English and is open to students from other disciplines.

ITA 359Y0: 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.

Exclusion: ITA245Y1/247HI/248Y1

**ITA360HI Italian Linguistics 26L**

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.

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

**ITA361HI Aspects of Italian Descriptive and Applied Linguistics 26L**

This course deals primarily with morphological, syntactic and semantic analysis, but also discusses the educational uses of linguistics. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1 and 360HI

**ITA363HI Italian Sociolinguistics 26L**

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: ITA250Y1/251Y1/252Y1/253Y1

**ITA364HI Advanced Language Practice I 39S**

Analysis and discussion of vocabulary and syntax with special emphasis on the noun phrase and Italian word derivation. Reading and linguistic analysis of selected Italian literary texts from the Middle Ages to the present. Special emphasis will be

# Italian Studies

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placed on individual stylistic problems. This course includes a component designed to enhance students' research experience.

Exclusion: ITA(343HI,344HI)/350YI/351YI/352Y/353YO/  
(354HI,355HI)

Prerequisite: ITA252YI/253YI/

## **ITA365HI Advanced Language Practice II 39S**

Analysis and discussion of vocabulary and syntax with special emphasis on the verb phrase and other syntactic structures. Reading and linguistic analysis of selected Italian literary texts from the Middle Ages to the present. Special emphasis will be placed on individual stylistic problems. This course includes a component designed to enhance students' research experience.

Exclusion: ITA(343HI,344HI)/350YI/351YI/352Y/353YO/  
(354HI,355HI)

Prerequisite: ITA364HI

## **ITA370HI Power and Success in the Renaissance 26L**

Concepts of power and strategies for success in Renaissance texts including Machiavelli's *Il principe* and Castiglione's *Il libro del cortegiano*. This course includes a component designed to enhance students' research experience.

Exclusion: ITA370YI

Prerequisite: ITA250YI/251YI/252YI/253YI

## **ITA371HI Translating II 26S**

A course designed for advanced students. Written translation of a variety of non-technical texts from English into Italian and Italian into English. This course includes a component designed to enhance students' research experience.

Exclusion: ITA371Y

Prerequisite: Permission of Department

## **ITA372HI Translating III 26S**

A course designed for advanced students. Written translation of a variety of non-technical texts from English into Italian and Italian into English. This course includes a component designed to enhance students' research experience.

Exclusion: ITA371YI

Prerequisite: ITA371HI or permission of Department

## **ITA381HI Topics in Modern and Contemporary Literature 26L**

Focusing on compelling themes arising from critical and theoretical debates in 20th-century culture, this course analyzes poetic, narrative and dramatic works by major Italian modern and contemporary authors. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250YI/251YI/252YI/253YI

## **ITA390HI The Commedia dell'Arte 26L**

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)

## **ITA394HI The Opera Libretto 26L**

An in-depth study of four opera librettos, examined first in the context of contemporary theories of drama, and then in the context of recent stagings, all available in video form, by distinguished directors. This course includes a component designed to enhance students' research experience. (Given in English)

## **ITA395YO Special Topics in Italian Studies 52S**

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)

## **ITA398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

## **ITA400HI Autobiography 26L**

An introduction to the conventions of the genre as illustrated by a selection of representative autobiographies from different periods of history and by authors professionally engaged in different disciplines (artists, philosophers, playwrights, etc.). Special emphasis on narrative strategies and on the rhetoric of self-description. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250YI/251YI/252YI/253YI

## **ITA405HI 19th Century Italian Poetry 26L**

Centred around the poetic production of Leopardi, Pascoli, and D'Annunzio, the course explores the main literary, artistic and socio-political issues that characterize Italy's cultural contribution within the context of the romantic movements in Europe. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250YI/251YI/252YI/253YI

## **ITA409HI Masterpieces of Medieval and Renaissance Drama 26L**

This course examines the impact of the theatrical works of Feo Belcari, Lorenzo de' Medici, Machiavelli, Ariosto and others in the development of theatre in 15th and 16th century Italy. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250YI/251YI/252YI/253YI

## **ITA410HI Masterpieces of Modern Drama 26L**

An analysis of the most representative works of 20th-century Italian dramatists, from Pirandello to Fabbri to Fo. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250YI/251YI/252YI/253YI

## **ITA415HI Drama in Performance 26L**

An in-depth study of two plays, one of which is studied in the context of its production history and against the background of contemporary performance theory and theatre technology, while the other is examined from the dramaturgical perspective of current theatre practice and in the context of modern theories of directing. This course includes a component designed to enhance students' research experience. (Given in English)

## **ITA420HI Spinning a Tale: The Italian Short Story from Boccaccio to Basile 26L**

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.

Exclusion: ITA421YI

Prerequisite: ITA250YI/251YI/252YI/253YI

- ITA421HI Spinning a Tale :The Italian Short Story after 1800 26L**  
 The short story genre and its development from 1800 to the present. Authors to include Pratesi, Verga, Negri, Landolfi. This course includes a component designed to enhance students' research experience.  
 Exclusion: ITA421YI  
 Prerequisite: ITA250YI/251YI/252YI/253YI
- ITA426HI Actors, Directors and Stage Artists of the Renaissance and Baroque Periods 26L**  
 The origin and early development of the professional theatre in Italy. Among the topics examined are the composition of theatrical companies, acting conventions, theories of directing, costume design, theatre architecture, and production technology. This course includes a component designed to enhance students' research experience.  
 Prerequisite: ITA250YI/251YI/252YI/253YI
- ITA430HI History of the Italian Language 26L**  
 The historical formation of the Italian language and of its dialects. Historical phonology and morphology, and problems of syntax and lexicon. Reading and linguistic analysis of early Italian texts. This course includes a component designed to enhance students' research experience.  
 Prerequisite: ITA250YI/251YI/252YI/253YI
- ITA436HI Man and Society from the Renaissance to the Enlightenment 26L**  
 A study of the different concepts of man and his place in society, as exemplified in Italian literature from the late 15th to the 18th century. This course includes a component designed to enhance students' research experience.  
 Exclusion: ITA436YI  
 Prerequisite: ITA250YI/251YI/252YI/253YI
- VIC440YI Florence and the Renaissance**  
 See "Victoria College Courses"
- ITA441HI Italian Novel into Film: Aspects of Cinematic Adaptation 26L**  
 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: ITA240YI/340YI/340HI/341HI/347HI/381YI. Knowledge of Italian recommended
- ITA451HI Advanced Composition and Stylistics I 39S**  
 A study of the more complex aspects of Italian syntax, stylistics and semantics. Discussion of problems and difficulties relating to syntax, vocabulary and style as they arise from individual compositions or essays. Reading and linguistic analysis of selected Italian literary texts. This course includes a component designed to enhance students' research experience.  
 Prerequisite: ITA(343HI,344HI)/350YI/351YI/352YI/353YI/(354HI,355HI)/(364HI,365HI)  
 Exclusion : ITA450Y/451Y/452Y
- ITA452HI Advanced Composition and Stylistics II 39S**  
 A continuation of the study of the more complex aspects of Italian syntax, stylistics and semantics. Discussion of problems and difficulties relating to syntax, vocabulary and style as they arise from individual compositions or essays. Reading and linguistic analysis of selected Italian literary texts. This course includes a component designed to enhance students' research experience.  
 Prerequisite: ITA451HI  
 Exclusion : ITA450Y/451Y/452Y
- ITA455HI Women Writers in Italy 26L**  
 Cultural movements and feminist issues as reflected in the writings of various periods. This course includes a component designed to enhance students' research experience.  
 Prerequisite: ITA250YI/251YI/252YI/253YI
- ITA470HI Galileo and the Scientific Revolution in Renaissance Italy 26L**  
 Focusing on Galileo Galilei, this course examines the development of the language of science in Renaissance Italy using a variety of tools such as literary and scientific texts, overheads, multimedia programs, and the Internet. This course includes a component designed to enhance students' research experience.  
 Prerequisite: ITA250YI/251YI/252YI/253YI
- ITA471HI Translating IV 26S**  
 Written translation of literary, administrative, business, and semi-technical texts from English into Italian and Italian into English. This course includes a component designed to enhance students' research experience.  
 Exclusion: ITA471YI  
 Prerequisite: Permission of Department
- ITA472HI Translating V 26S**  
 Written translation of literary, administrative, business, and semi-technical texts from English into Italian and Italian into English. This course includes a component designed to enhance students' research experience.  
 Exclusion: ITA471YI  
 Prerequisite: ITA471HI or permission of Department
- ITA473HI Legal, Scientific and Business Italian 26S**  
 Reading, lexical and syntactic analysis of representative texts written in business, legal and scientific Italian. Translation of such texts into English and of comparable English texts into Italian. This course includes a component designed to enhance students' research experience.  
 Exclusion: ITA472YI  
 Prerequisite: Permission of Department
- ITA475HI Literature and Desire 26L**  
 This course traces the development of erotic discourse in Italian culture. Course material is drawn from poetry, prose, and plays on love, focusing both on the literary and psychoanalytic language of love. This course includes a component designed to enhance students' research experience.  
 Prerequisite: ITA250YI/251YI/252YI/253YI
- ITA489HI 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

# Italian Studies

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## **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

## **ITA491H1 Topics in Contemporary Fiction 26L**

This course traces the debate on the relationship between writing and reality in contemporary fiction from the early 20th century to neo-realism and post-modernism. Texts studied are by such prominent writers as Pirandello, Svevo, Gadda, Vittorini, Calvino, Morante, and Eco. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

## **ITA492H1 What is a Poet? The Roles and Functions of Poetry in Twentieth-Century Literature 26L**

What function can the aesthetic experience play in capitalist society? This course examines how, through irony, humour, pathos, lyricism, or detachment, twentieth century poets sought to provide an answer, and to renew the poetic tradition. The course may include works by Gozzano, Marinetti, Palazzeschi, Montale, Luzi, Caproni, and Sanguineti. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

## **ITA493H1 Italian-Canadian Literature II: Identity and Voice 26L**

Critical investigation of works by Italian-Canadian authors, focusing on themes linked to the second-generation experience, such as intergenerational conflict, gender relations, the return journey, and the quest for identity. Special attention is given to the most recent production, new narratives and artistic forms. This course includes a component designed to enhance students' research experience. (Texts are available in Italian and English)

Recommended preparation: One of ITA233Y1/334H1

## **ITA494H1 The Artist as Writer 26S**

Writings by Italian artists through the ages, including Michelangelo in the Renaissance. This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: ITA494Y1



## Faculty

### Professors Emeriti

J. Kornberg, MA, Ph D (HIS)  
A. Pietersma, BA, BD, Ph D (NMC)  
G.P. Richardson, B Arch, BD, Ph D (U)(RLG)  
R. Sandler, MA, Ph D (NMC)

### Professor and Program Director

D.J. Penslar, MA, Ph D, C Phil (U) (HIS)  
Samuel J. Zacks Chair in Jewish History

### Professors

E. Adler, BA, MA, Ph D (POL)  
Andrea and Charles Bronfman Chair in Israeli Studies  
D. Bergen, MA, Ph D  
Chancellor Rose and Ray Wolfe Chair in Holocaust Studies  
R.B. Gibbs, BA, MA, Ph D (U) (PHL)  
J. Kloppenborg, MA, Ph D (RLG)  
R.J. Leprohon, MA, Ph D (NMC)  
M.R. Marrus, MA, Ph D, FRSC (T) (HIS)  
D. Novak, MHL, Ph D (U) (RLG, PHL)  
J. Richard and Dorothy Shiff Chair of Jewish Studies  
C. Orwin, MA, Ph D (SM) (POL)

### Associate Professors

Y.M. Bodemann, MA, Ph D (SOC)  
J. Bryant, MA, Ph D (SM) (RLG)  
H. Fox, BSc, BA, MA, Ph D (NMC, RLG)  
W. Goetschel, Lic Phil, Ph D (GER)  
K.H. Green, MA, Ph D (RLG)  
A. Harrack, MA, Ph D (NMC)  
I. Kalmar, MA, Ph D (WV,V) (ANT)  
J.S. Kopstein, MA Ph D (POL)  
T. Meacham, MA, Ph D (NMC)  
S. Metso, MA, Th D (NMC)  
M.D. Meyerson, MA, Ph D (HIS)  
J. Newman, MA, Ph D  
J.A. Reilly, MA, Ph D (NMC)  
M.E. Subtelny, MA, Ph D (NMC)  
P. Wróbel, MA, Ph D (HIS)

### Assistant Professors

M. Chazan, M Phil, Ph D (V)  
A.S. Cohen, MA, Ph D (Fine Art)  
T.P. Harrison, MA, Ph D (NMC)  
R. Holmstedt, MA, Ph D (NMC)  
J. Marshall, MA, Ph D (RLG)  
A. Most, MA, Ph D (ENG)  
A. Shternshis, MA, D Phil (GER)

### 2007/08 Shoshana Shier Distinguished

#### Visiting Professor

Professor K. Stow, Department of Jewish History,  
University of Haifa

### Special Lecturer

S. Green, MA, Ph D (NMC)

These inter-disciplinary and inter-departmental programs study both traditional and modern Jewry. The courses provide an opportunity to study the religion, languages, literature, history and philosophy of the Jewish people from biblical times to the present.

## Jewish Studies Programs

### Jewish Studies (Arts program):

Jewish Studies Program is divided into three main areas of concentration:

- A: Judaism and Jewish Thought;
- B: Jewish History and Society;
- C: Jewish Language and Literature.

### Specialist program:

(12 full courses or equivalent, including 4 300+series and 1 400-series courses)

1. One Hebrew course: NMC 136Y or NMC 230Y (or written equivalency examination)
2. Eight courses from one of the areas of concentration listed above
3. Four courses from at least two other Areas

### Major program:

(6 full courses or equivalent, including two 300-series courses)

1. Four courses from one area of concentration listed above
2. Two further courses from at least one other area
3. Two courses must be at the 300+ level.

### Minor program:

(4 full courses or equivalent, including one 300-series course)

## Courses Offered by the Jewish Studies Program

The following is a list of courses typically offered by the Jewish Studies Program. For detailed information on courses offered in the current academic year, please check the 2006-2007 Jewish Studies Undergraduate Handbook. If your division does not carry the handbooks, please call 416-978-8118.

### Department of Anthropology

ANT 426HI Orientalism: Western Views of the Other

### Department of English (416-978-3190)

ENG256YI Twentieth-Century North American Jewish Literature

### Department of German (416-926-2324)

GER260YI Elementary Yiddish  
GER360HI Intermediate Yiddish  
GER361HI Yiddish Literature and Culture in Translation  
GER362HI Soviet and Kosher: Jewish Culture in the Soviet Union, 1917-1941  
GER363YI Cultural History of the East European Community, 1800-2000  
GER411HI Introduction to Critical Theory  
GER462HI Advanced Yiddish  
GER491YI Individual Studies

### Department of History (416-978-3363)

HIS206YI Medieval History of the Jewish People  
HIS208YI Modern History of the Jewish People

# Jewish Studies

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HIS304YI	Medieval Spain: 711-1610
HIS307HI	Middle East International Relations
HIS338YI	The Holocaust: Nazi Germany, Occupied Europe, and the Destruction of European Jewry
HIS356HI	Zionism and the State of Israel
HIS414HI	The Third Reich
HIS433HI	Polish Jews Since the Partitions of Poland
HIS442YI	Antisemitism and Jewish Responses
HIS444HI	Topics in Jewish History: Society and the Sacred: Birth, Marriage, Death in Jewish Culture
HIS451HI	World War II in East Central Europe

## Department of Near and Middle Eastern Civilizations (416-978-3180)

HUM199HI/YI	Mystical Dimensions of Islam and Judaism
NMC230YI	Introductory Biblical Hebrew
NMC256YI	Literature and Culture of Modern Israel
NMC257YI	Literature of Jewish Sages
NMC278YI	Introduction to the Modern Middle East/
NMC331HI	Mishnah and Tosefta
NMC333YI	Intermediate Biblical Hebrew: Pentateuch
NMC36YI	Intermediate Modern Hebrew
NMC352HI	Faith and Doubt in Modern Hebrew Poetry
NMC384HI	Life Cycle and Personal Status in Judaism: Reproductive Technology and Jewish Law
NMC432YI	Halakhic Midrashim

## Department of Philosophy (416-978-3311)

PHL338HI	Jewish Philosophy
PHL410HI	Seminar in Continental Philosophy: Derrida As Philosophical Reader

## Department of Political Science (416-978-3343)

POL345HI	Becoming Israel: War, Peace and the Politics of Israel's identity
POL421HI	Maimonides and his Modern Interpreters
POL430YI	Comparative Studies in Jewish and Non-Jewish Political Thought

## Department for the Study of Religion (416-978-2395)

RLG202YI	The Jewish Religious Tradition
RLG220HI	Philosophical Responses to the Holocaust
RLG221HI	Religious Ethics: the Jewish Tradition
RLG239HI	Special Topics: Jewish and Christian Polemics
RLG280YI	Comparative World Religions
RLG320HI	Judaism and Christianity in the Second Century
RLG340YI	Classical Jewish Theology
RLG341HI	Dreaming of Zion: Exile and Return in Jewish Thought
RLG342YI	Judaism in the Modern Age
RLG343HI	Kabbala: A History of Mystical Thought in Judaism
RLG344YI	Anti-Semitism
RLG345HI	Ecology and Judaism
RLG346HI	Time and Place in Judaism
RLG440HI	Advanced Topics: Natural Law in Judaism and Christianity
RLG446HI	Advanced Topics: Religion West III: Maimonides and his Modern Interpreters

## Department of Slavic Languages and Literatures

SLA302HI	The Imaginary Jew
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### Joint Courses

See page 27 for Key to Course Descriptions.

These courses are sponsored by more than one department, college, or program office.

#### Note

For Distribution Requirement purposes (see page 33), the following courses are variously classified; check listing at the end of each course.

#### **JAG321HI**      **Aboriginal People and Environmental Issues in Canada**

See Aboriginal Studies or Geography  
This is a Social Science course

#### **JAL328HI**      **Writing Systems**

See Anthropology or Linguistics  
This is a Social Science course

#### **JAL355HI**      **Language and Gender**

See Anthropology or Linguistics  
This is a Social Science course

#### **JAL401HI**      **Field Linguistics**

See Anthropology or Linguistics  
This is a Social Science course

#### **JB0302YI**      **Human Physiology and Biophysics**

See Physics or Physiology  
This is a Science course

#### **JB1428HI**      **Molecular Immunology**

See Biochemistry or Immunology  
This is a Science course

#### **JDC400HI**      **Dramatic Text and Theatrical Communication**

See Comparative Literature or Drama  
This is a Humanities course

#### **JDC410HI**      **New Approaches to Theatre History**

See Drama

#### **JEF100YI**      **The Western Tradition**

See English or French  
This is a Humanities course

#### **JFG470HI**      **Forest Management**

See Geography or Forest Conservation  
This is a Science course

#### **JFG475HI**      **Emergency Response Systems Planning**

See Geography or Forest Conservation  
This is a Science course

#### **JFI225YI**      **Second Language Learning**

See French or Italian  
This is a Humanities course

#### **JFL477HI**      **Issues in French and Linguistics I**

See French or Linguistics  
This is a Humanities course

#### **JFL478HI**      **Issues in French and Linguistics II**

See French or Linguistics  
This is a Humanities course

#### **JFP450HI**      **First Nations Issues in Health and Healing**

See Aboriginal Studies or Faculty of Pharmacy  
This is both a Humanities and a Social Science course

#### **JFV323HI**      **Semiotics and Literature I**

See French or Victoria College.  
This is a Humanities or Social Science course.

#### **JGE221YI**      **Environment and Sustainable Development**

See Geography or Centre for Environment.  
This is a Social Science course.

#### **JGI216HI**      **Urbanization & Global Change**

See Geography or Innis College  
This is a Social Science course

#### **JGI346HI**      **The Urban Planning Process in Canada**

See Geography or Innis College  
This is a Social Science course

#### **JGI454HI**      **The Role of the Planner: Making a Difference**

See Geography or Innis College  
This is a Social Science course

#### **JGP438HI**      **Shallow Crust Geophysics**

See Geology or Physics  
This is a Science course

#### **JHP304YI**      **Ukraine: Politics, Economy and Society (formerly JHP204Y)**

See History or Political Science  
This is both a Humanities and a Social Science course

#### **JHP435YI**      **Linguistics and Cultural Minorities in Europe**

See History or Political Science  
This is both a Humanities and a Social Science course

#### **JHP440YI**      **Gender & International Relations**

See History or Political Science  
This is both a Humanities and a Social Science course

#### **JHP454YI**      **Twentieth Century Ukraine**

See History and Political Science  
This is both a Humanities and a Social Science course

#### **JIA400HI**      **Interdisciplinary Practice for the Arts**

See Drama  
This is a Humanities course

#### **JIE307YI**      **Urban Sustainability (formerly INI307YI)**

See Geography, Innis College Urban Studies or Centre for Environment  
This is a Social Science course

#### **JLP315HI**      **Language Acquisition**

See Linguistics or Psychology  
This is a Science course

#### **JLP374HI**      **Psychology of Language**

See Linguistics or Psychology  
This is a Science course

#### **JLP471HI**      **Advanced Psycholinguistics**

See Linguistics or Psychology  
This is a Science course

## Joint Courses

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**JLS474HI Disorders of Speech and Language**

See Linguistics  
This is a Science course.

**JMB170YI Biology, Models, and Mathematics**

See Ecology & Evolutionary Biology or Mathematics  
This is a Science course

**JMC301YI State and Society in 20th Century China**

See East Asian Studies or Political Science  
This is a Humanities and Social Science course

**JNV 300HI Gender, History and Literature**

See Victoria College or Women & Gender Studies  
This is a Humanities course

**JOP210HI Holography for 3D Visualization**

See Physics  
This is a Science course.

**JPA305HI Introduction to Archaeometry**

See Anthropology or Physics  
This is a Science course

**JPA310HI Physic and Archaeology**

formerly JPA 300Y See Anthropology or Physics  
This is a Science course

**JPA400YI Advanced Physics and Archaeology**

See Anthropology or Physics  
This is a Science course

**JPD439YI Post-Modern and Contemporary Thought**

See Political Science or Sociology  
This is a Social Science course

**JPF455YI Cities**

See Political Science  
This is a Social Science course

**JPJ421YI Comparative Constitutionalism: Rights and Judicial Review**

See Political Science or Faculty of Law  
This is a Social Science course

**JPJ471HI Constitutional Politics**

See Political Science or Faculty of Law  
This is a Social Science course

**JPJ494HI Innovation and Knowledge Transfer in Regional Industry Clusters**

See Political Science or Faculty of Law  
This is a Social Science course

**JPP343YI Women in Western Political Thought**

See Philosophy or Political Science  
This is a Social Science course

**JSV200HI/262HI Communication and Conflict Resolution**

See St. Michael's College or Victoria College.  
This is a Social Science course.

**JUG320HI The Canadian Wilderness**

See Geography or University College  
This is a Social Science course

**JUM202HI Mathematics as an Interdisciplinary Pursuit**

See Mathematics or University College  
Offered every three years  
This is a Science course

**JUM203HI Mathematics as a Recreation**

See Mathematics or University College  
Offered every three years  
This is a Science course

**JUM205HI Mathematical Personalities**

See Mathematics or University College  
Offered every three years  
This is a Science course

**JUP460HI/YI Contemporary Issues in Peace and Conflict**

See Political Science or University College  
This is a Social Science course

**JWU200HI Toronto in the Canadian Context**

See University College Canadian Studies  
This is a Humanities or Social Science course.

**HAJ453HI AIDS:A Global Perspective**

See Human Biology  
This is a Science or Social Science course.

**MEJ204HI Mathematics & Poetry**

See English  
This is a Humanities course.

**MIJ485HI Vaccines and Immunity**

See Immunology or Molecular Genetics & Microbiology  
This is a Science course.

**Latin: see Classics**

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## Faculty

- Ana María Bejarano (Political Science, UTM, and Political Science, UofT at St. George)
- Anne-Emanuelle Birn (Public Health Sciences, Faculty of Medicine, UofT at St. George, and Social Science, UTSC)
- Patricia Landolt (Social Science, UTSC and Centre for Urban and Community Studies, UofT at St. George)
- Peter Blanchard (History, UofT at St. George)
- Laura Colantoni (Spanish and Portuguese, UofT at St. George)
- Jock Galloway (Geography, UofT at St. George)
- Gustavo Indart (Economics, UofT at St. George)
- Kenneth Mills (History, UofT at St. George, and Director)
- Valentina Napolitano Quayson (Anthropology, UofT at St. George)
- Ana T. Pérez-Leroux (Spanish and Portuguese, UofT at St. George)
- Victor R. Rivas (Spanish and Portuguese, UofT at St. George)
- Néstor Rodríguez (Spanish and Portuguese, UofT at St. George)
- David Rojinsky (Spanish and Portuguese, UofT at St. George)
- Rosa M. Sarabia (Spanish and Portuguese, UofT at St. George)
- Daniel Schugurensky (OISE and Centre for Urban and Community Studies, UofT at St. George)
- Ricardo Sternberg (Spanish and Portuguese, UofT at St. George)
- Judith Teichman (Social Sciences, UTSC, and Political Science, UofT at St. George)
- William O. Walker III (History, UofT at St. George)
- Derek Williams (Historical Studies, UTM, and History, UofT at St. George)

Latin American Studies at the University of Toronto (LAS@UofT) is a programme for students in the social sciences, humanities and sciences who seek a deeper understanding of the Latin American regions, their histories, cultures and societies. LAS@UofT seeks to inspire knowledge and experience across the University's three-campus community and beyond. The programme's courses encourage students to complement special interests in fields such as Anthropology, Political Science, Geography, History or Sociology with a broader interdisciplinary framework, while at the same time committing themselves to an emphasis upon the languages and the historical and cultural experiences of Spanish and Portuguese America.

LAS@UofT exists to bring together the energy and insights of a multi-disciplinary collection of individuals and units, to develop innovative courses and to stimulate exchange. The programme's research and pedagogical mission encompasses everything from the ancient American civilizations and the ideas, peoples and commodities that came together and emerged within a wide Iberian world, through the archaeology, geography, history, languages, literatures, politics, societies and cultures of the Latin American regions and countries, to the natural sciences and transnational investigation of Latin Americans and their descendants in Canada and elsewhere.

## Contact:

Camille Harrison  
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Latin American Studies at the University of Toronto  
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camille.harrison@utoronto.ca, 416 946-8972

Kenneth Mills  
Professor of History & Director  
Latin American Studies at the University of Toronto  
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LAS@UofT website: [www.utoronto.ca/las](http://www.utoronto.ca/las)

## Latin American Studies Program

### Latin American Studies (Arts program)

#### Major program

(7 full courses or equivalent including at least two courses at the 300+ level)

1. Course work: Students must successfully complete seven full courses or their equivalents sponsored or approved by LAS@UofT, as well as satisfy the requirements of their departmental specialization. The requirement is six full courses for students who begin their language study in PRT220Y1 or SPA220Y1/SPA319Y1, or who demonstrate language proficiency by exam.

Of the required courses:

- One course must be LAS200Y1
  - At least one course must be LAS300HI or LAS301HI.
- Note that if the subject matter and/or instructor has changed, it will be possible to take, and be credited for, LAS300HI or LAS301HI more than once.

#### Courses eligible for programme credit

Courses eligible for programme credit include those appearing below. Please note that some of the courses have pre-requisites; in all cases, and for updates on courses being offered, check individual department websites.

#### Latin American Studies

- LAS200Y1 Latin American History, Civilization and Culture  
LAS300HI Topics in the Social Sciences  
(Latina/o Identity in Canada)
- LAS301HI Topics in the Humanities  
(Postcolonial Imaginary in Latin America)
- LAS400HI Topics in Latin American Studies  
(Gender, Migration and Globalization)

#### Anthropology

- ANT340HI Anthropology of Latin America

#### Geography

- GGR240Y1 Historical Geography of the Americas

#### History

- HIS291Y1 Latin America: The Colonial Period  
HIS292Y1 Latin America: The National Period  
HIS301Y1 Imperial Spain  
HIS333Y1 Revolution in 20th Century Latin America  
HIS390Y1 Latin America in the Age of Revolution  
HIS402HI Indigenous Colonial Cultures in the Spanish and Portuguese Americas  
HIS441HI Conversion & Christianities in the Early Modern Spanish World  
HIS456Y1 Black Slavery in Latin America

# Latin American Studies

## Political Science

POL305Y1	Politics and Society in Latin America
POL442H1	Topics in Latin American Politics

## Portuguese

PRT100Y1	Beginners Portuguese
PRT110Y1	Elementary Portuguese
PRT220Y1	Intermediate Portuguese
PRT255H1	The Brazilian Puzzle: Culture and Identity
PRT258H1	Introduction to Luso-Brazilian Studies
PRT355H1	Topics in Brazilian Studies
PRT357H1	Modern and Contemporary Brazilian Literature
PRT365H1	The Rise of Modern Identity
PRT454Y1	The Luso-Brazilian Identity
PRT455Y1	Machado de Assis and <i>Eça de Queiroz</i>
PRT458H1	The Luso-Brazilian Short Story

## Spanish

SPA100Y1	Spanish for Beginners
SPA220Y1	Intermediate Spanish
SPA259H1	Introduction to Hispanic Cultural Studies
SPA375H1	Latin American Cinema
SPA380H1	Colonial Literature and Cultures
SPA381H1	Nation, Identity and Literary Modernism in Spanish-America
SPA382H1	Spanish American Women in Art, Film and Literature
SPA384H1	Avant-Garde Movements in Spanish America
SPA385H1	Literature and Social Change in Spanish America
SPA467H1	Topics in Spanish-American Culture
SPA468H1	Topics in Modern Spanish-American Literature
SPA471H1	The Historical Novel in Spanish America
SPA480H1	Theories of Culture in Latin America
SPA482H1	20 <sup>th</sup> Century Spanish American Narrative
SPA486H1	Contemporary Caribbean Literatures and Identities
SPA487H1	The Culture of Revolution

## UTM Courses

HIS290H5	Intro to Latin American History
HIS345H5	Popular Culture in Latin America
HIS390H5	Revolutions and Nations in Latin America
HIS391H5	Modern Mexico
HIS454H5	Race, Gender and Nation in Modern Latin America
HIS490H5	Religion and Society in Latin America
POL201Y5	Politics of the Third World
POL361H5	After Regime Change: The Quality of Democracy in Latin America

## UTSC Courses

POLB90H3	Comparative Development in International Perspective
POLB91H3	Comparative Development in Political Perspective
POLC91H3	Development Studies: Political and Historical Perspectives
POLC99H3	Latin America: The Politics of the Dispossessed
SOCC25H3	Comparative Ethnic and Race Relations

- Language: Students must successfully complete (with a grade of at least 65%) the first two levels of instruction in the Spanish or Portuguese language by the end of the third year of study ( SPA100Y1 then SPA220Y1; or SPA319 [for heritage-speakers, and viewed by the programme as an equivalent of SPA 220Y1]; PRT100Y1/PRT110Y1 then PRT220Y1 ), or demonstrate equivalent proficiency in the given language through examination by LAS@UofT before the end of the second year.

## Latin American Studies Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), LAS courses are classified in different categories; check individual course descriptions.

### LAS200Y1 Latin America: History, Civilization and Culture 52L, 26P

An introductory course that studies the development of societies in the Latin American region from its pre-Columbian past to its heterogeneous present. Cultural, geographical, historical, literary, political and social topics will be examined combining traditional historical narratives and supporting documents with art, cinema, music and other texts from popular culture and mass media. This course is open to students in at least their second year of undergraduate study. It provides both a broad foundation, and an invitation to delve deeper in further courses and in different disciplinary concentrations.

Exclusion: IAS200Y1

This is a Humanities or Social Science course.

### LAS300H1 Topics in the Social Sciences 26S (Latina/o Identity in Canada)

This issue-oriented seminar explores the construction of Latina/o identity in Canada from an interdisciplinary perspective. We look to generate knowledge and understanding about: 1) the manner in which Latina/o diasporas have been constructed through historical and socio-political processes such as exile, migration, immigration, and the ways in which they are articulated within transnational processes of capital accumulation and the redefinitions of 'authentic' national subjecthood and, 2) the ways in which Latinidad emerges both within Latina/o communities and in relation to the Canadian nation and transnational realities.

Prerequisite: IAS200Y1/LAS200Y1

This is a Social Science Course

### LAS301H1 Latin America: Topics in the Humanities 26S

The issue of Latin America's postcolonial status is a controversial debate. We will explore this question through the analysis of the Latin American social imaginary. The most relevant events currently taking place in Latin America will be studied in relation to the most notable expressions of resistance originating in the 19th and 20th centuries. Critical texts will provide the theoretical basis for the discussion of films and related texts. We will pay particular attention to works of Simón Bolívar, José Martí, Che Guevara, Pablo Neruda, Rigoberta Menchú, Subcomandante Marcos, Sergei Eisenstein, Walter Salles, Tomás Gutiérrez Alea, and others. Although class discussions will be conducted in English, a reading knowledge of Spanish is required. The films will be scheduled for viewing outside of class.

Prerequisite: IAS200Y1/LAS200Y1

This is a Humanities course.

**LAS400H1    Topics in Latin American Studies I    26S**  
**(Gender, Migration and**  
**Globalization)**

An in-depth exploration of specific themes in the study of Latin America. Designed especially for students in their third or fourth year of undergraduate study, pursuing an LAS Major. Special topics will vary; emphasis upon discussion of common readings and sources in a seminar format.

Prerequisite: IAS200Y1/LAS200Y1 plus at least one other course eligible for LAS programme credit

Note: please see LAS@UofT web site for more details on this course.

# Life Sciences

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The following Life Science departments and programs are included in this section:

- Biochemistry
- Biology
- Botany (see Biology)
- Cell & Systems Biology
- Ecology & Evolutionary Biology
- Human Biology
- Immunology
- Laboratory Medicine & Pathobiology
- Molecular Genetics & Microbiology
- Neuroscience (see Human Biology)
- Nutritional Sciences
- Pharmacology & Toxicology
- Pharmaceutical Chemistry
- Physiology
- Psychology
- Zoology (see Biology)

Many of the Life Science programs listed in this section 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 judgements 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 *Registration Handbook and Timetable's* "Enrol in a Subject POST" section for further details about programs.

For students with career goals in the health sciences, please see the "Admission to Other University Faculties/Programs" section under "Admission" in this *Calendar*.

## **Specialist Programs**

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Behaviour (Ecology & Evolutionary Biology), Biochemistry, Biogeography (Geography), Biological Chemistry (Chemistry), Bioinformatics and Computational Biology (Biochemistry), Biology, Biophysics (Physics), Botany (Biology), Cell Biology (Cell & Systems Biology), Comparative Animal Physiology (Cell & Systems Biology), Developmental Biology (Cell & Systems Biology), Ecology (Ecology & Evolutionary Biology), Environment and Health (Centre for Environment), Evolutionary Biology (Ecology & Evolutionary Biology), Genes Genetics and Biotechnology (Human Biology), Global Health (Human Biology), Health and Disease (Human Biology), Immunology, Molecular Genetics & Microbiology, Molecular Plant Biology (Cell & Systems Biology), Neuroscience (Human Biology), Pathobiology, Pharmaceutical Chemistry, Pharmacology, Physiology, Psychology, Psychology Research, Toxicology, Zoology (Biology).

## **Major Programs**

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Biochemistry, Biology, Botany (Biology), Ecology & Evolutionary Biology, Life Science (Human Biology), Nutritional Sciences, Pharmacology, Physiology, Psychology, Toxicology, Zoology (Biology).

## **Minor Programs**

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Biology, Botany (Biology), Environmental Biology (Ecology & Evolutionary Biology), Physiology, Psychology, Zoology (Biology).

## **Animal Use in Laboratories**

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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.



## Given by members of the Faculty of Medicine

### Faculty

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#### Professor and Chair of the Division

M.J. Wiley, M Sc, Ph D

#### Professors

J.A. Saint-Cyr, M Sc, Ph D

P.A. Stewart, M Sc, Ph D

I.M. Taylor, MD

#### Associate Professor

A.M. Agur, M Sc, Ph D

#### Assistant Professors

P. Koeberle, Ph D

C. Morshead, Ph D

#### Lecturer

B. Balyk, Ph D

Anatomy is the science that explores the relationship between the structure and function of living things. The discipline of anatomy includes Gross Anatomy, Histology, Neuroanatomy, Embryology, and Developmental Biology. Courses offered by the Division give the essentials of these subjects.

Undergraduate Secretary:

Professor M.J. Wiley (416-978-2642)

Enquiries:

Medical Sciences Building, Room 1156 (416-978-2690)

### Anatomy Courses

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See page 33 for Key to Course Descriptions.

NOTE: For Distribution Requirement purposes, all ANA courses are classified as SCIENCE courses (see page 27).

#### **NRS202HI Neuroanatomy**

See Life Science: Neuroscience

#### **ANA300Y1 Human Anatomy and Histology 86L, 18P**

Structure of the human body and its relationship to function. Basic Human Cytology, Histology, Gross Anatomy, and Neuroanatomy.

Prerequisite: BIO150Y1

#### **ANA301HI Human Embryology 52L**

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: BIO150Y1

#### **ANA498Y1 Project in Anatomy TBA**

A research project in Histology, Cellular or Molecular Biology, Developmental Biology, Neuroanatomy or Gross Anatomy.

Prerequisite: Permission of a professor to supervise the project

# Life Sciences: Biochemistry

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## Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

### Faculty

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#### University Professor Emeritus

M.A. Packham, BA, Ph D, FRSC

#### Professors Emeriti

R.A. Anwar, M Sc, Ph D  
A. Bennick, M Sc D, Ph D  
N. Camerman, B Sc, Ph D  
G.E. Connell, BA, Ph D, FRSC, O.C.  
T. Hoffmann, Dip Chem, D Sc Tech  
V.K. Kalnins, M Sc, Ph D  
B.G. Lane, BA, Ph D  
H.G. Lawford, B Sc, Ph D  
A. Marks, MD, Ph D  
M.A. Moscarello, BA, MD, Ph D  
R.K. Murray, MB, Ch B, MS, Ph D  
R.H. Painter, B Sc, Ph D (T)  
B. Sarkar, M Pharm, Ph D  
H. Schachter, BA, MD, Ph D, FRSC  
D.O. Tinker, B Sc, Ph D  
G.R. Williams, B Sc, Ph D, D Sc (S), FRSC

#### Professor and Chair of the Department

R. Reithmeier, B Sc, Ph D

#### University Professor

D.H. MacLennan, BA, M Sc, Ph D, FRSC, O.C.

#### Professors

K. Adeli, B Sc, M Sc, Ph D  
R.R. Baker, B Sc, Ph D (V)  
D. Bazett-Jones, M Sc, Ph D  
C.E. Bear, M Sc, Ph D  
H.S. Chan, B Sc, Ph D  
D.M. Clarke, B Sc, Ph D  
C.M. Deber, B Sc, Ph D, FRSC  
J. Forman-Kay, B Sc, Ph D  
S. Grinstein, B Sc, Ph D, FRSC  
J.W. Gurd, BA, Ph D  
L. Howell, B Sc, Ph D  
C.J. Ingles, B Sc, Ph D  
D.E. Isenman, B Sc, Ph D  
A.O. Jorgensen, Ph D  
L. Kay, B Sc, Ph D, FRSC  
F.W. Keeley, B Sc, Ph D  
S. Kelley, BA, Ph D  
A. Klip, M Sc, Ph D, FRSC  
P.N. Lewis, B Sc, Ph D  
C.A. Lingwood, B Sc, Ph D  
L.A. Moran, B Sc, Ph D  
E.F. Pai, Dipl-Chem, Dr rer nat  
G. Privé, B Sc, Ph D  
D.E. Pulleyblank, B Sc, Ph D  
B.H. Robinson, B Sc, Ph D

D. Rotin, B Sc, Ph D  
J.M. Segall, B Sc, Ph D  
C.H. Siu, BA, Ph D  
J. Sodek, B Sc, Ph D  
W. Trimble, B Sc, Ph D  
D.B. Williams, M Sc, Ph D  
S. Wodak, L.C. Ph D

#### Associate Professors

L. Attisano, B Sc, Ph D  
G.W. Brown, B Sc, Ph D  
J.W. Callahan, M Sc, Ph D  
A. Chakrabarty, B Sc, Ph D  
A.R. Davidson, B Sc, Ph D  
J.R. Glover, B Sc, Ph D  
W. Houry, B Sc, Ph D  
G. Lukacs, Ph D, MD  
M.L. Rand, B Sc, Ph D  
J. Rini, B Sc, Ph D  
C.A. Smibert, B Sc, Ph D  
I. Stagljar, B Sc Dipl-Mol Biol, Ph D  
B. Steipe, MD, Ph D  
C.M. Yip, BA Sc, Ph D

#### Assistant Professors

M.F. Manolson, B Sc, Ph D  
A. McQuibban, B Sc, M Sc, Ph D  
J. Parkinson, B Sc Ph D  
R. Pomès, B Eng, Ph D  
J. Rubinstein, B Sc, Ph D  
S. Sharpe, B Sc, Ph D  
A. Volchuk, B Sc, Ph D

#### Senior Lecturer

S. Andreopoulos, M Sc, Ph D

#### Lecturer

A. Khan, B Sc, Ph D

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

# Life Sciences: Biochemistry

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 training in problem solving specifically using a molecular approach. Biochemistry specialists will 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. Frequently students who have completed a B.Sc. in the Specialist Program 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.

Undergraduate Coordinator: R. R. Baker, roy.baker@utoronto.ca

Undergraduate Administrator: Brenda Bradshaw, brenda.bradshaw@utoronto.ca

Enquiries: Medical Sciences Building, Room 5207 (416-978-2700)

Web site: [www.biochemistry.utoronto.ca](http://www.biochemistry.utoronto.ca)

## Biochemistry Programs

### Biochemistry (Science Program)

The Biochemistry Specialist Program is a Type 3 program. Enrolment is limited and selection is based on performance in First Year courses. Typically, students considered for entrance into the Specialist Program have a GPA greater than 3.0. Students apply via the Faculty's Subject POST web site. See the departmental web site at [www.biochemistry.utoronto.ca](http://www.biochemistry.utoronto.ca) for more information.

#### Specialist Program:

(14 full courses or their equivalent, including at least three 400-series courses)

First Year: BIO 150Y1; CHM 151Y1/(CHM 138H1, 139H1); MAT 135Y1/136Y1/137Y1; PHY 110Y1/138Y1/140Y1 (PHY 138Y1 recommended)

Second Year: BCH 242Y1; BIO 250Y1; CHM 220H1, 247H1/249H1  
NOTE: BIO260H1 is a recommended preparation for MGY311Y1.

Third Year:

1. BCH 335H1, 340H1, 371H1; MGY 311Y1

2. 1.5 full-course equivalents from the following list:  
Any 300-level course(s) in BIO/BOT/CHM/HMB/IMM/LMP/MGY/PCL/PSL/ZOO/BIO260H1/CHM217H1/345H1/347H1/BCH304H1 (departmental approval required).

Fourth Year:

1. BCH 471Y1  
2. Four of: BCH 422H1/425H1/426H1/440H1/441H1/445/CHM 447H1/JBI 428H1/MGY 420H1/425H1

#### Major Program

(8 full courses or their equivalent, including two 400-series half-year courses as noted below) The Biochemistry Major program is a Type 3 program. Only students with a GPA of 2.5 or higher will be considered for entrance into the Major program. Enrollment is limited and selection is based upon performance in First Year courses. Students may combine this Biochemistry Major with another suitable Major within Science, Humanities, or Social Sciences.

In order to be admitted into the program you must have taken a full course load in first year (five full courses) and the enrollment is limited.

For more information, refer to the Biochemistry web site at [www.biochemistry.utoronto.ca](http://www.biochemistry.utoronto.ca)

First Year: BIO 150Y1; CHM 151Y1 (CHM 138H1, 139H1); MAT 135Y1/136Y1/137Y1

Second Year: BCH 210H1; BIO 250Y1; CHM 247H1/249H1

Third Year:

1. BCH 370H1  
2. PSL 350H1/BIO 349H1\* (\*NOTE: BIO 349H1 has BIO 260H1/HMB 265H1 as prerequisite)  
3. One full-course equivalent from the following list: Any 300-level course(s) in BIO/BOT/CHM/HMB/IMM/LMP/MGY/PCL/PSL/ZOO/BIO 260H1/CHM 217H1/CHM 220H/BCH 304H1 (departmental approval required)

Fourth Year: Two of: BCH 422H1/425H1/426H1/440H1/441H1/445H1/CHM 447H1/JBI 428H1\* (\*NOTE JBI 428H1 has IMM 334Y/335Y1 as prerequisite)

### Bioinformatics and Computational Biology

If we were to choose the single most important scientific advance of the last century, it would be iconified in the image of the double helix of DNA and its implied duality: life propagates as pure information, which is encoded in physical molecules. Molecular biology is an information science as much as it is a physical science. Bioinformatics devises methods to make biological information computable - to abstract properties of molecules, cellular systems and biological organisms, to efficiently store and retrieve the very large volumes of data that are being accumulated, to support sensitive comparisons and to mine the data with sophisticated statistical tools. Computational biology is bioinformatics' goal: to advance our understanding of life through computational analysis, modeling, and prediction. However, integrating the two cultures of computer science and life science has been a challenge, and a bottleneck for progress has emerged from a lack of dually qualified researchers. The Bioinformatics and Computational Biology specialist program is designed to provide a balance between its foundational subjects and to cover advanced topics in both the theoretical and the life-sciences. It aims to train the generalist, who will become creative at the intersection of two fields, rather than pursue their subspecialization. The program draws on the University's state-of-the-art facilities across several departments, as well as being firmly embedded in a comprehensive landscape of graduate and postgraduate research in one of the University's

# Life Sciences: Biochemistry

priority areas. Graduates of the program would typically pursue graduate studies in any of the participating departments: Computer Science (from the biocomputing stream, see below), Biochemistry, Botany or Zoology (from the bioanalyst stream). Important advances in the computer sciences have been motivated by these needs and there is virtually no field in the life-sciences and in molecular medicine that does not critically depend on insightful data analysis.

## Bioinformatics and Computational Biology (Science Program)

The Bioinformatics and Computational Biology Program is jointly sponsored by the Departments of Biochemistry, Botany, Computer Science and Zoology. Enrollment is limited and selection is based on performance in the required first year courses.

### Specialist program:

(16.5 full courses or their equivalent)

First Year: MAT135Y1/MAT137Y1/MAT157Y1; (CSC107H1/ CSC108H1, CSC148H1)/CSC150H1; CSC165H1; CHM151Y1 / (CHM138H1, CHM139H1); BIO150Y1; writing requirement (0.5 credit, see Note 2 to Comprehensive Program in Computer Science)  
Second Year: MAT223H1/MAT240H1; STA247H1; STA248 H1; CSC207H1; CSC236H1/CSC240H1; BCH242Y1; BIO250Y1  
Third Year: CSC263H1 / CSC265H1; CSC321H1 / CSC343H1; CSC373H1 / CSC375H1; BCH441H1 / BIO472H1; MGY311Y1 / (BIO260H1, BIO349H1)

### Fourth Year:

Bio Analyst Stream (preparation for life-science graduate programs)  
BCB410H1; BCB420H1; CSC411H1; five half credits from (BCB430Y1, BCH335H1, BCH340H1, MGY420H1, MGY425H1, MGY428H1, BCH422H1, BCH426H1, BCH440H1, MGY460H1, BIO460H1, BIO473H1, BOT421H1, BOT450H1, BOT458H1)

Bio Computing Stream (preparation for computer-science graduate programs)  
BCB410H1; BCB420H1; CSC411H1; CSC336H1/ CSC350H1; one half credit from (MGY420H1, MGY425H1, MGY428H1, BCH422H1, BCH426H1, BCH440H1, MGY460H1, BIO460H1, BIO473H1, BOT421H1, BOT450H1, BOT458H1); three half credits from (BCB430Y1, CSC324H1, CSC363H1, MAT244H1, CSC310H1, CSC321H1, CSC343H1, CSC412H1, CSC456H1)

## Bioinformatics & Computational Biology Courses

See page 33 for Key to Course Descriptions. For Distribution Requirement purposes, all BCB courses are classified as SCIENCE courses (see page 27). For details on BCB courses, see [www.biochemistry.utoronto.ca/bcb](http://www.biochemistry.utoronto.ca/bcb)

### BCB410H1 Applied Bioinformatics 26L, 13P

Practical introduction to concepts, standards and tools for the implementation of strategies in bioinformatics and computational biology.

Prerequisite: CSC263H1, CSC373H1, MGY311Y1 / (BIO260H1, BIO349H1) or special permission

### BCB420H1 Computational Systems Biology 26L

Current approaches to using the computer for modeling biology as integrated molecular systems.

Prerequisite: CSC263H1, CSC373H1, MGY311Y1 / (BIO260H1, BIO349H1) or special permission

### BCB430Y1 Special Project in Bioinformatics and Computational Biology TBA

An opportunity for specialized individual research in bioinformatics and computational biology by arrangement with the course coordinator and a supervisor.

Prerequisite: GPA 3.0 and written acceptance by coordinator and supervisor. Corequisite: BCB410H1, BCB420H1

Exclusion: Any other 4th year special project course taken at the same time.

## Biochemistry Courses

See page 33 for Key to Course Descriptions. For Distribution Requirement purposes, all BCH courses are classified as SCIENCE courses (see page 27).

### BCH299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details.

### BCH210H1 Introductory Biochemistry 39L, 26T

An introductory course in biochemistry covering proteins, enzymes, and metabolism. This course is intended for students who are NOT taking BCH242Y1 as part of their program.

Exclusion: BCH242Y1/310H1/320Y1/321Y1/CHM265H5(UTM)/361H5(UTM)/362H5(UTM)

Prerequisite: (CHM138H1, 139H1)/CHM151Y

**NOTE:** CHM1\*\* WITH COURSE EXCLUSION TO CHM138H AND CHM139H meet the prerequisite requirement for BCH210H. SC11\*\* DOES NOT COUNT AS A PREREQUISITE.

### BCH242Y1 Biochemistry 78L

An introduction to biochemistry for students specializing in biochemistry and related specialist programs. The major topics include protein structure, enzyme mechanisms, carbohydrates, metabolism and bioenergetics, lipids, membranes, structure of DNA and RNA.

Exclusion: BCH210H1/310H1/320Y1/321Y1/CHM265H5(UTM)/361H5(UTM)/362H5(UTM)

Prerequisite: (CHM138H1, 139H1)/CHM151Y

### BCH304H1 Cell Dynamics & Interactions 28L, 11T

Principles and concepts of cell biology; structure, molecular organization and dynamic cell-cell and cell-extracellular matrix interactions during cell migration, cell adhesion, cell polarity and tissue organization and the role of cytoskeletal components and cell surface receptors in these processes. Approaches and imaging techniques used; contributions of cell biology to advances in medicine.

Exclusion: ANA304Y1

Prerequisite: BIO250Y1, BCH210H1/242Y1

### BCH335H1 Nucleic Acids and Recombinant DNA Technology 39L

Structure of DNA and RNA. Catalytic RNAs (ribozymes).

Aspects of DNA topology and chromatin structure. Restriction/modification and fundamentals of recombinant DNA technology.

Exclusion: BCH430H1

Prerequisite: BCH242Y1

**BCH340HI Proteins: from Structure to Proteomics 39L**

Proteins are the main functional units of the cell. In this course, a detailed overview of protein structure, stability, folding, and protein-ligand interactions will be given with strong emphasis on discussing the basic principles in the field. Biophysical methods as well as theoretical approaches to studying protein stability and folding will be presented. Finally, proteomics approaches to map protein-protein interactions will be discussed.

Exclusion: BCH421HI

Prerequisite: BCH242YI

**BCH370HI Laboratory Course in Biochemical Techniques 13L, 39P**

Techniques in biochemical research and analytical laboratories. 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. **No enrolment will be permitted five days after the start of class.** (Enrolment limited)

Exclusion: BCH371HI, CHM379HI

Prerequisite: BCH210HI

**BCH371HI A Laboratory Course in Biochemistry 75P**

An introduction to laboratory techniques of modern biochemistry. Experiments illustrate and develop the concepts described in lecture courses, and prepare the student for advanced training in biochemical laboratory techniques. (Enrolment limited)

Exclusion: BCH370HI, CHM379HI

Prerequisite: BCH242YI

**Note**

Students who have completed University of Toronto at Mississauga's CHM361H5 and 362H5 may enroll in 400-series lecture courses if they obtain permission of the Department

**BCH422HI Membrane Proteins: Structure, and Function 26L**

Structural features of membrane proteins and methods of analysis. Function of membrane proteins as transporters, channels, pumps and receptors. Molecular aspects of disease processes linked to membrane proteins.

Prerequisite: BCH210HI/242YI, MGY311YI/BIO349HI/PSL350HI

**BCH425HI Structural Biology: Principles and Practice 26L**

Theory and practice of modern biophysical techniques as applied in the study of structure and function of macromolecules; emphasis on protein X-ray crystallography, NMR, and other spectroscopic methods; discussion of selected examples.

Prerequisite: BCH 210HI/242YI, CHM220HI. Analytical problem solving skills are highly recommended for this course.

**BCH426HI Regulation of Signalling Pathways 26L**

A variety of questions relating to signal transduction are investigated. How is calcium regulated in the cell and how does

calcium regulate cell function? How are extracellular signals received and transmitted by intracellular proteins to control cellular proliferation and differentiation? What signaling paths are triggered by insulin?

Prerequisite: BCH210HI/242YI, MGY311YI/BIO349HI/PSL350HI

**JBI428HI Molecular Immunology 26L**

Molecular mechanisms involved in innate and adaptive immunity including the structure and function of immunoglobulins, the complement system, antigen processing and presentation and membrane signalling events. Emphasis is on experimental approaches and quantitative aspects. (Given jointly by the Departments of Biochemistry and Immunology)

Prerequisite: BCH210HI/242YI, IMM334YI/335Y

Recommended preparation: BIO349HI/MGY311YI/PSL350HI

**BCH440HI Protein Biosynthesis 26L**

Mechanisms of translation initiation and translational control, ribosome assembly and structure. Protein folding and molecular chaperones. Protein targeting and transport. Regulation of protein degradation.

Prerequisite: BCH210HI/242YI, MGY 311YI/BIO 349HI/PSL350HI

**BCH441HI Bioinformatics 26L, 13T**

This course covers the use of computers in biochemistry and molecular biology. The main topics include: structure and organization of sequence databases, genome databases, sequences alignment and search strategies, molecular evolution and methods for constructing phylogenetic trees. Recent advances in comparative genomics and proteomics are presented. Assignments focus on practical applications of web-based bioinformatics tools.

Prerequisite: BCH210HI/242YI, MGY311YI/BIO349HI/PSL350HI

**BCH444HI Protein Trafficking in the Secretory & Endocytic Pathways 26L**

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.

Prerequisite: BCH 242YI/210HI, MGY311YI/PSL 350HI/BIO349HI

**BCH445HI Organelles and Cell Function 26L**

Principles and concepts of cell biology are covered including structure, biogenesis, and dynamic behaviour of cell organelles. The roles of sub-nuclear structure in DNA replication and of vesicular transport in endocytosis, exocytosis and phagocytosis are emphasized, as are modern imaging techniques and contributions of cell biology to advances in medicine.

\*\*Please note in the past academic session this course was presented as BCH 305HI

Exclusion: ANA304YI, BCH305HI

Prerequisite: BIO250YI, BCH210HI/242YI, MGY311YI/BIO349/PSL350

## Life Sciences: Biochemistry

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**BCH471Y1    Advanced Biochemistry                    168P**  
**Laboratory**

Experiments demonstrating modern concepts of biochemistry and molecular biology. (Enrolment limited)

Prerequisite: (BCH335HI + 340HI + 371HI)/(CHM361H5 [UTM] + 362H5 [UTM] + 371H5 [UTM]) + MGY311Y1

**BCH473Y1    Advanced Research Project in                    154P**  
**Biochemistry**

Research in a particular area of biochemistry, by arrangement with the Department and the instructor concerned. Students must have a minimum GPA of 3.0.

Prerequisite: BCH335HI + 340HI + 371HI, and permission of Department

Co-requisite: BCH471Y1

**Biological Chemistry: see Chemistry**

## Given by Members of the Departments of Cell & Systems Biology and Ecology & Evolutionary Biology

Students are advised to consult courses listed by these Departments.

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 grappling with the ethical questions that face humanity, and in understanding the interdependent web of living organisms on the planet. Today the biological sciences are experiencing a revolution. Important discoveries occur almost weekly as scientists and their students around the world develop and use new techniques, theories, and approaches.

The University of Toronto has many faculty conducting research and teaching courses in the biological sciences. Within the Faculty of Arts and Science, St. George campus, there is no single biology department. Biology courses once taught by the departments of Botany and Zoology are now taught by members of the new departments of Cell & Systems Biology and Ecology & Evolutionary Biology. Each of these departments offers its own programs and courses, but also jointly offers the Biology, Botany, and Zoology programs. Courses are available in the subject areas of behaviour, evolution, ecology, cell and molecular biology, genetics, physiology, and developmental biology. In addition, there are courses offering a field experience for students. Students should consult the Cell & Systems Biology and Ecology & Evolutionary Biology entries in this Calendar.

Because many areas of biology draw on mathematics and the physical sciences, background preparation in mathematics and chemistry (and sometimes physics) is recommended for students pursuing programs in biology.

Students entering their first year in the life sciences take BIO150Y1. BIO150Y1 is taken by students who have successfully completed grade 12 Biology (or an equivalent course) and is a prerequisite for almost all further courses in the life sciences.

Note that courses prior to 2007-08 that were listed in Calendars under Botany and Zoology are now listed under Cell & Systems Biology or Ecology & Evolutionary Biology. All students, regardless of campus or Faculty, must abide by the stated course prerequisites and exclusions.

## Biology Programs

### Biology (Science program)

The Biology Specialist, Major, and Minor programs are administered through the Department of Ecology & Evolutionary Biology. After completing 4.0 FCEs (four full courses or their equivalent), students in these programs are encouraged to discuss their course selections each year with the Department. Contact: [undergrad@eeb.utoronto.ca](mailto:undergrad@eeb.utoronto.ca)

Enrolment in the programs listed below requires completion of 4.0 FCEs; no minimum GPA is required.

### Specialist program:

(13 full courses or their equivalent, including at least 1.0 400-series FCE)

First Year: BIO150Y1; CHM (138H1, 139H1)/151Y1; JMB170Y1/ MAT135Y1/136Y1/137Y1/157Y1

Higher Years:

- 2.0 FCEs from: chemistry, CHM 220H1, 247H1/249H1; physics, PHY110Y1/138Y1/140Y1; or statistics, EEB/BIO 225H1, PSY 201H1, 202H1, STA 220H1, 221H1, 250H1, 255H1, 257H1, 261H1, JBS 229H1  
NOTE: One of the two courses selected here could also be taken in First Year
- 3.5 FCEs: BIO250Y1/255Y1; BIO/BOT 251Y1; BIO/ZOO 252Y1; BIO260H1/HMB265H1
- 0.5 FCE at the 200+ series from: BCH; BIO; BOT (excluding BOT202Y1); CSB (excluding CSB200Y1); EEB (excluding EEB 202H1, 214H1, 215H1, 216H1); ENV234Y1; HMB321H1; HPS 323H1, 333H1, 353H1, 355H1; MGY312H1; PSY397H1/JZP326H1, PSY497H1/JZP428H1; ZOO (excluding ZOO 200Y1, 214Y1, 215H1, 216H1)
- 1.0 300+ series FCE in plant or microbial biology from: BOT; CSB 340H1, 350H1, 351Y1, 353H1, 450H1, 452H1, 459H1, 460H1; EEB 304H1, 330H1, 331H1, 337H1, 340H1, 341H1, 428H1, 440H1
- 1.0 300+ series FCE in animal biology from: CSB 325H1, 327H1, 328H1, 329H1, 330H1, 331H1, 332H1, 344H1, 345H1, 346H1, 347H1, 357H1, 425H1, 428H1, 429H1, 430H1, 457H1, 482Y1, 485Y1; EEB 309H1, 322H1, 356H1, 360H1, 361H1, 384H1, 386H1, 388H1, 389H1; ZOO
- 1.0 300+ series FCE from: ANA; ANT436H1; BCH; BIO; BOT; CSB; EEB; HMB321H1; HPS 323H1, 333H1, 353H1, 355H1; IMM; MGY; PSL; PSY397H1/JZP326H1, PSY497H1/JZP428H1; ZOO
- 1.0 400-series FCE from: BIO; BOT; CSB; EEB; ZOO

### Major program:

(8 full courses or their equivalent)

First Year: BIO150Y1; CHM (138H1, 139H1)/151Y1

Higher Years:

- 3.0 FCEs: BIO250Y1/255Y1; BIO/BOT 251Y1; BIO/ZOO 252Y1
- 1.0 FCE from: BCH; BIO, including BIO260H1/HMB265H1; BOT (excluding BOT202Y1); CSB (excluding CSB200Y1); EEB (excluding EEB 202H1, 214H1, 215H1, 216H1); ENV 234Y1; HMB321H1; HPS 323H1, 333H1, 353H1, 355H1; MGY312H1; PSY397H1/JZP326H1, PSY497H1/JZP428H1; ZOO (excluding ZOO 200Y1, 214Y1, 215H1, 216H1)
- 2.0 300+ series FCEs from: ANA; BCH; BIO; BOT; CSB; EEB; HMB321H1; HPS 323H1, 333H1, 353H1, 355H1; IMM; MGY; PSL; PSY397H1/JZP326H1, PSY497H1/JZP428H1; ZOO

### Minor program:

(4 full courses or their equivalent)

- BIO150Y1
- 1.0 FCE from: BIO250Y1/255Y1; BIO/BOT 251Y1; BIO/ZOO 252Y1
- 2.0 FCEs (1.0 FCE must be at the 300+ series) from: BIO; BOT (excluding BOT202Y1); CSB (excluding CSB200Y1); EEB (excluding EEB202H1, 214H1, 215H1, 216H1); ENV234Y1; HMB265H1, 321H1; HPS323H1, 333H1, 353H1, 355H1; MGY312H1; PSY397H1/JZP326H1; PSY497H1/JZP428H1; ZOO (excluding ZOO200Y1, 214Y1, 215H1, 216H1)

# Life Sciences: Biology

## Botany (Science program)

The Botany Specialist, Major, and Minor programs are administered through the Department of Ecology & Evolutionary Biology. After completing 4.0 FCEs (four full courses or their equivalent), students in these programs are encouraged to discuss their course selections each year with the Department. Contact: [undergrad@eeb.utoronto.ca](mailto:undergrad@eeb.utoronto.ca)

Enrolment in programs listed below requires completion of 4.0 FCEs; no minimum GPA is required.

### Specialist program:

(12 full courses or their equivalent, including at least 1.0 400-series FCE)

First Year: BIO150Y1; CHM (138HI, 139HI)/151Y1

Higher Years

- 2.0 FCEs from: BCH210HI; CHM 220HI, 247HI/249HI; CSC 108HI, 148HI; JMB170Y1/MAT135Y1/136Y1/137Y1; PHY110Y1/138Y1/140Y1; or statistics, EEB/BIO 225HI, STA 220HI, 221HI, 250HI, 255HI, 257HI, 261HI, JBS 229HI  
NOTE: One or more of the two courses selected here could also be taken in First Year
- 2.5 FCEs: BIO250Y1/255Y1; BIO/BOT 251Y1; BIO260HI/HMB265HI
- 1.0 FCE from: ENV234Y1 or EEB/BIO 319HI, 321HI, 323HI, 324HI, EEB330HI/BOT300HI, EEB337HI/BOT307HI
- 2.0 FCEs from: BCH210HI; BIO260HI/HMB265HI; BOT (excluding BOT202Y1); CSB 340HI, 350HI, 351Y1, 353HI, 450HI, 452HI, 459HI, 460HI; EEB 304HI, 330HI, 331HI, 337HI, 340HI, 341HI, 428HI, 440HI
- 2.5 300+ series FCEs (at least 1.0 must be 400-series) from: BOT; CSB 340HI, 349HI, 350HI, 351Y1, 353HI, 450HI, 452HI, 459HI, 460HI, 472HI, 473HI, 497HI/498Y1, 499Y1; EEB 301HI, 302HI, 303HI, 304HI, 305HI, 306HI, 307HI, 308HI, 319HI, 321HI, 323HI, 324HI, 328HI, 330HI, 331HI, 337HI, 340HI, 341HI, 353HI, 355HI, 428HI, 440HI, 494Y1, 495Y1, 497HI/498Y1, 499Y1; HPS 323HI, 333HI, 353HI, 355HI

### Major program:

(8 full courses or their equivalent)

First Year: BIO150Y1; CHM (138HI, 139HI)/151Y1; and one course from CSC (108HI, 148HI), JMB170Y1/MAT135Y1/136Y1/137Y1, PHY110Y1/138Y1/140Y1

Higher Years:

- 2.0 FCEs: BIO250Y1/255Y1; BIO/BOT 251Y1
- 1.0 FCE from: BCH210HI; BIO260HI/HMB265HI; BOT (excluding BOT202Y1); CSB 340HI, 350HI, 351Y1, 353HI, 372HI, 373HI, 450HI, 452HI, 459HI, 460HI; EEB 304HI, 330HI, 331HI, 337HI, 340HI, 341HI, 428HI, 440HI; ENV234Y1
- 2.0 300+ series FCEs from: BOT; CSB 340HI, 349HI, 350HI, 351Y1, 353HI, 450HI, 452HI, 459HI, 460HI, 472HI, 473HI; EEB 301HI, 302HI, 303HI, 304HI, 305HI, 306HI, 307HI, 308HI, 319HI, 321HI, 323HI, 324HI, 328HI, 330HI, 331HI, 337HI, 340HI, 341HI, 353HI, 355HI, 428HI, 440HI; HPS 323HI, 333HI, 353HI, 355HI

### Minor program:

(4 full courses or their equivalent)

- BIO150Y1; BIO/BOT 251Y1
- 1.0 FCE from: BIO250Y1/255Y1; BIO260HI/HMB265HI; BOT (excluding BOT202Y1); CSB 340HI, 349HI, 350HI, 351Y1, 353HI, 450HI, 452HI, 459HI, 460HI, 472HI, 473HI; EEB 301HI, 302HI, 303HI, 304HI, 305HI, 306HI, 307HI, 308HI, 319HI, 321HI, 323HI, 324HI, 328HI, 330HI, 331HI, 337HI, 340HI, 341HI, 353HI, 355HI, 428HI, 440HI; ENV234Y1; HPS 323HI, 333HI, 353HI, 355HI
- 1.0 300+ series FCEs from: BOT (excluding BOT202Y1); CSB 340HI, 350HI, 351Y1, 353HI, 450HI, 452HI, 459HI, 460HI; EEB 304HI, 330HI, 331HI, 337HI, 340HI, 341HI, 428HI, 440HI

## Zoology (Science program)

The Zoology Specialist, Major, and Minor programs are administered through the Department of Cell & Systems Biology. After completing 4.0 FCEs (four full courses or their equivalent), students in these programs are encouraged to discuss their course selections each year with the Department. Contact: [undergrad@csb.utoronto.ca](mailto:undergrad@csb.utoronto.ca)

Enrolment in programs listed below requires completion of 4.0 FCEs; no minimum GPA is required.

### Specialist program:

(13 full courses or their equivalent, including at least 1.0 400-series FCE)

First Year: BIO150Y1; CHM (138HI, 139HI)/151Y1; JMB170Y1/MAT135Y1/136Y1/137Y1/157Y1 (MAT135Y1 may be required for certain courses)

Higher Years

- 2.5 FCEs from: BIO250Y1/255Y1; BIO/ZOO 252Y1; BIO260HI/HMB265HI
- 1.0 FCE from: CHM 220HI, 247HI/249HI; or statistics, EEB/BIO 225HI, PSY 201HI, 202HI, STA 220HI, 221HI, 250HI, 255HI, 257HI, 261HI, JBS 229HI
- 1.0 FCE from: CHM 220HI, 247HI/249HI; MAT235Y1/237Y1; PHY110Y1/138Y1/140Y1; PSY100HI/100Y1; or statistics, EEB/BIO 225HI, PSY 201HI, 202HI, STA 220HI, 221HI, 250HI, 255HI, 257HI, 261HI, JBS 229HI  
NOTE: Some of the courses selected here could also be taken in First Year
- 1.0 300+ series FCE from: CSB 325HI, 327HI, 328HI, 329HI, 330HI, 331HI, 332HI, 344HI, 345HI, 346HI, 347HI, 357HI, 425HI, 429HI, 430HI, 457HI, 482Y1, 485Y1, 486HI; EEB 309HI, 322HI, 356HI, 360HI, 361HI, 384HI, 386HI, 388HI, 389HI; ZOO
- 4.5 FCEs (at least 2.0 must be 300+ series and 1.0 400-series) from: ANT436HI; BIO; CSB 325HI, 327HI, 328HI, 329HI, 330HI, 331HI, 332HI, 344HI, 345HI, 346HI, 347HI, 349HI, 357HI, 425HI, 429HI, 430HI, 457HI, 472HI, 473HI, 482Y1, 485Y1, 486HI, 497HI/498Y1, 499Y1; EEB 263Y1, 265Y1, 301HI, 302HI, 303HI, 305HI, 306HI, 307HI, 308HI, 309HI, 319HI, 321HI, 322HI, 323HI, 324HI, 328HI, 353HI, 355HI, 356HI, 360HI, 361HI, 362HI, 365HI, 370HI, 375HI, 384HI, 386HI, 388HI, 389HI, 459HI, 460HI, 461HI, 462HI, 465HI, 468HI, 469HI, 471HI, 494Y1, 495Y1, 496Y1, 497HI/498Y1, 499Y1; ENV234Y1; HMB321HI; HPS 323HI, 333HI,



353HI, 355HI; MGY312HI; PSY397HI/JZP326HI, PSY497/  
JZP428HI; ZOO (excluding ZOO 200YI, 214YI, 215HI,  
216HI)

NOTE: The 5.5 FCEs in 4. and 5. above must include at least  
78 hours of labs; one field course counts as 52 hours.

## Major program:

(8 full courses or their equivalent)

First Year: BIO150YI; CHM (138HI, 139HI)/151YI

Higher Years

- 2.0 FCEs: BIO250YI/255YI; BIO/ZOO 252YI
- 1.0 FCE from: CHM 220HI, 247HI/249HI; JMB170YI/  
MAT135YI/136YI/137YI/157YI; or statistics, EEB/BIO  
225HI, PSY 201HI, 202HI, STA 220HI, 221HI, 250HI,  
255HI, 257HI, 261HI, JBS 229HI  
NOTE: One of the courses selected here could also be  
taken in First Year
- 2.0 FCEs (at least 1.0 must be 300+ series) from:  
ANT436HI; BIO260HI/HMB265HI; CSB 325HI, 327HI,  
328HI, 329HI, 330HI, 331HI, 332HI, 344HI, 345HI,  
346HI, 347HI, 349HI, 357HI, 425HI, 429HI, 430HI,  
457HI, 472HI, 473HI, 482YI, 485YI, 486HI; EEB 263YI,  
265YI, 301HI, 302HI, 303HI, 305HI, 306HI, 307HI,  
308HI, 309HI, 319HI, 321HI, 322HI, 323HI, 324HI,  
328HI, 353HI, 355HI, 356HI, 360HI, 361HI, 362HI,  
365HI, 370HI, 375HI, 384HI, 386HI, 388HI, 389HI,  
459HI, 460HI, 461HI, 462HI, 465HI, 468HI, 469HI,  
471HI; ENV234YI; HMB321HI; HPS 323HI, 333HI,  
353HI, 355HI; MGY312HI; PSY397HI/JZP326HI,  
PSY497HI/JZP428HI; ZOO (excluding ZOO 200YI, 214YI,  
215HI, 216HI)
- 1.0 300+ series FCE from: CSB 325HI, 327HI, 328HI,  
329HI, 330HI, 331HI, 332HI, 344HI, 345HI, 346HI,  
347HI, 357HI, 425HI, 429HI, 430HI, 457HI, 482YI,  
485YI, 486HI; EEB 309HI, 322HI, 356HI, 360HI, 361HI,  
384HI, 386HI, 388HI, 389HI; ZOO

## Minor program:

(4 full courses or their equivalent)

- BIO150Y
- 1.0 FCE from: BIO250YI/255YI; BIO/ZOO 252YI
- 1.0 FCE from: BIO260HI/HMB265HI; CSB 325HI, 327HI,  
328HI, 329HI, 330HI, 331HI, 332HI, 344HI, 345HI,  
346HI, 347HI, 349HI, 357HI, 425HI, 429HI, 430HI,  
457HI, 472HI, 473HI, 482YI, 485YI, 486HI; EEB 263YI,  
265YI, 301HI, 302HI, 303HI, 305HI, 306HI, 307HI,  
308HI, 309HI, 319HI, 321HI, 322HI, 323HI, 324HI,  
328HI, 353HI, 355HI, 356HI, 360HI, 361HI, 362HI,  
365HI, 370HI, 375HI, 384HI, 386HI, 388HI, 389HI,  
459HI, 460HI, 461HI, 462HI, 465HI, 468HI, 469HI,  
471HI; ENV234YI; HMB321HI, HPS 323HI, 333HI,  
353HI, 355HI; MGY312HI; ZOO (excluding ZOO 200YI,  
214YI, 215HI, 216HI)
- 1.0 300+ series FCE from: CSB 325HI, 327HI, 328HI,  
329HI, 330HI, 331HI, 332HI, 344HI, 345HI, 346HI,  
347HI, 349HI, 357HI, 425HI, 429HI, 430HI, 457HI,  
482YI, 485YI, 486HI; EEB 309HI, 322HI, 356HI, 360HI,  
361HI, 384HI, 386HI, 388HI, 389HI; ZOO

## Other Biology Programs:

**Behaviour:** see **Ecology & Evolutionary Biology**

**Biogeography:** see **Geography**

**Biology, Human:** see **Human Biology**

**Biophysics:** see **Physics**

**Cell Biology:** see **Cell & Systems Biology**

**Comparative Animal Physiology:** see **Cell & Systems Biology**

**Developmental Biology:** see **Cell & Systems Biology**

**Ecology:** see **Ecology & Evolutionary Biology**

**Environmental Biology:** see **Ecology & Evolutionary Biology**

**Evolutionary Biology:** see **Ecology & Evolutionary Biology**

**Molecular Plant Biology:** see **Cell & Systems Biology**

## Biology Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all BIO courses are classified as SCIENCE courses.

Biology courses are offered by the Departments of Cell & Systems Biology and Ecology & Evolutionary Biology. The courses below have BIO designators. Other biology courses have either CSB or EEB designators.

### **BIO150YI**      **Organisms in Their Environment**

See Ecology & Evolutionary Biology

### **BIO250YI**      **Cell and Molecular Biology**

See Cell & Systems Biology

### **BIO251YI**      **Biology of Plants and Micro-organisms (formerly BOT251YI)**

See Ecology & Evolutionary Biology

### **BIO252YI**      **Animal Physiology: Cells to Systems (formerly ZOO252YI)**

See Cell & Systems Biology

### **BIO255YI**      **Cell and Molecular Biology with Advanced Laboratory**

See Cell & Systems Biology

### **BIO260HI**      **Concepts in Genetics**

See Cell & Systems Biology

# Life Sciences: Botany

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The departments of Botany and Zoology were disestablished as of July 1, 2006, and its faculty, programs, and courses have become part of the new departments of Cell & Systems Biology (CSB), and Ecology & Evolutionary Biology (EEB). The Biology, Botany, and Zoology programs are listed under Biology. Please see the sections for CSB and EEB in this Calendar for information concerning their programs and courses.

## **Joint Programs (see Biology)**

Biology

Botany

Zoology

## **Cell & Systems Biology Programs**

Cell Biology

Comparative Animal Physiology

Developmental Biology

Molecular Plant Biology

## **Ecology & Evolutionary Biology Programs**

Behaviour

Ecology

Ecology & Evolutionary Biology

Environmental Biology

Evolutionary Biology

# Life Sciences: Cell and Systems Biology

## Faculty

### Professors Emeriti

D.G. Butler, M Sc, Ph D, D Sc, FRSA (ZOO)  
L. Butler, MSA, Ph D (ZOO)  
G.M. Clark, M Sc, Ph D (ZOO)  
N.G. Dengler, MS, Ph D (BOT)  
S.S. Desser, M Sc, Ph D (ZOO)  
W.G. Friend, B Sc, Ph D (W) (ZOO)  
M.C. Heath, B Sc, Ph D, FRSC (BOT)  
J.A. Hellebust, MA, Ph D (BOT)  
V.J. Higgins, MS, Ph D (BOT)  
R.L. Jefferies, B Sc, Ph D (BOT)  
R.A. Liversage, AM, Ph D (ZOO)  
Y. Masui, M Sc, Ph D (ZOO)  
N. Mrosovsky, BA, PhD (ZOO)  
B.H. Pomeranz, MD, CM, Ph D (ZOO)  
T.E. Reed, BA, Ph D (ZOO)  
B.I. Roots, B Sc, Ph D, D Sc, FRSC (ZOO)  
I. Tallan, B Sc, Ph D (ZOO)  
J.P. Williams, B Sc, Ph D (BOT)  
† M.P. Winsor, M Phil, Ph D (V) (ZOO)  
† J.H. Youson, M Sc, Ph D (UTSC) (ZOO)  
A.M. Zimmerman, MS, Ph D (ZOO)

### Professor and Chair of the Department

D.R. Goring, M Sc, Ph D

### Professors and Associate Chairs

S.L. Varmuza, MS, Ph D  
U. Tepass, M Sc, Ph D

### Associate Professor and Associate Chair

M.M. Campbell, B Sc, Ph D

### Professors

M.G. AbouHaidar, M Sc, Ph D  
† J.B. Anderson, BA, Ph D (UTM)  
F.M. Barrett, M Sc, Ph D  
T. Berleth, Diplom, Ph D  
† R. Boonstra, B Sc, Ph D (UTSC)  
I.R. Brown, B Sc, Ph D (UTSC)  
J.R. Coleman, B Sc, Ph D (U)  
† E. Edwards, M A Sc, Ph D  
G.S. Espie, B Sc, Ph D (UTM)  
† J.H. Fullard, M Sc, Ph D (UTM)  
P.A. Horgen, MS, Ph D (UTM)  
† L.M. Kohn, B Sc, Ph D (UTM)  
A.B. Lange, BS, Ph D (UTM)  
E.W. Larsen, M Sc, Ph D  
P. McCourt, B Sc, Ph D  
D.H. O'Day, M Sc, Ph D (UTM)  
I. Orchard, B Sc, Ph D (UTM)  
J.J.B. Smith, MA, Ph D (N)  
† M.B. Sokolowski, B Sc, Ph D, FRSC (UTM)  
† P. Thompson, BA, MA, Ph D (V)  
S.S. Tobe, M Sc, Ph D, FRSC  
† F.J. Vaccarino, M Sc, Ph D

### Associate Professors

† T.J. Brown, BS, Ph D  
L.T. Buck, B Sc, Ph D  
† R.R. Fulthorpe, M Sc, Ph D (UTSC)  
D. Godt, Dipl in Bio, Ph D  
D.S. Guttman, B Sc, Ph D  
C.A. Hasenkampf, MS, Ph D (UTSC)  
† H.J. Kronzucker, B Sc, Ph D (UTSC)  
† M. Locke, B Sc, BA, Ph D  
D.A. Lovejoy, B Sc, Ph D  
† A.C. Mason, M Sc, Ph D (UTSC)  
† J.-M. Moncalvo, M Sc, Ph D  
† M.R. Ralph, B Sc, Ph D  
S. Reid, B Sc, Ph D (UTSC)  
C.D. Riggs, B Sc, Ph D (UTSC)  
M.J. Ringuette, B Sc, Ph D  
P.A. Romans, M Sc, Ph D  
R. Stephenson, B Sc, Ph D  
G.C. Vanlerberghe, B Sc, Ph D (UTSC)  
J.T. Westwood, M Sc, Ph D (UTM)  
R. Winklbauer, Dipl in Bio, Ph D  
† J.S. Yeomans, BA, Ph D

### Assistant Professors

M. Aarts, M Sc, Ph D (UTSC)  
A. Bruce, BA, Ph D  
B. Chang, AB, Ph D  
D. Christendat, B Sc, Ph D  
† A. Cutter, B Sc, Ph D  
D. Desveaux, M Sc, Ph D  
S. Gazzarrini, M Sc, Ph D (UTSC)  
T.J. Harris, B Sc, Ph D  
† R. Harrison, M Sc, Ph D (UTSC)  
† J. Levine, BA, Ph D (UTM)  
† N.R. Lovejoy, M Sc, Ph D (UTSC)  
J.E. Nash, M Res, Ph D (UTSC)  
J. Peever, M Sc, Ph D  
N.J. Provart, M Sc, Ph D  
C.D. Riggs, B Sc, Ph D (UTSC)  
B.A. Stewart, M Sc, Ph D (UTM)  
† J.R. Stinchcombe, BA, Ph D  
V. Tropepe, B Sc, Ph D  
M. Woodin, M Sc, Ph D  
K. Yoshioka, MS, Ph D

### Lecturer

M. Neumann, M Sc, Ph D

† Cross-appointed

The new Department of Cell and Systems Biology, with its sibling department, Ecology and Evolutionary Biology, has arisen from a reorganization of the previous departments of Botany and Zoology. 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 approaches are revealing both the incredible complexity of organization at the cellular level, and the underlying principles drawn from chemistry, physics and information science that will eventually enable us to understand that complexity.

# Life Sciences: Cell and Systems Biology

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The Department of Cell and Systems Biology brings together biologists who study life at the level of molecules to functioning individual organisms. Cell Biology is a vibrant and broad discipline that seeks to understand the underlying molecular processes that control cell behaviour in a developmental and physiological context. In this broad sense, cell biology comprises molecular biology, developmental biology, genetics and physiology and their sub-disciplines. Systems biology is an exciting new discipline that studies dynamic networks in biological systems through the integration of large datasets arising from the genomics revolution. Computer modeling and bioinformatics are integrated with the study of detailed information about genomes (genomics), the temporal and spatial distribution of all gene transcripts (transcriptomics), cellular proteins and their physical interactions (proteomics), and small molecules that cells assimilate or synthesise (metabolomics).

Student Counseling and Enquiries:

Associate Chair (Undergraduate): Professor S. Varmuza (416-978-2759).

Contact the Undergraduate Office, Room 424 in the Ramsay Wright Laboratories (416-978-3477) and consult the departmental web site, [www.csb.utoronto.ca](http://www.csb.utoronto.ca).

## Cell and Systems Biology Programs

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**Bioinformatics and Computational Biology: see Biochemistry**

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**Biology: see Biology**

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**Botany: see Biology**

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### Cell Biology (Science program)

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Enrolment in this program is limited, and requires a minimum CGPA of 2.7. Enrolment also requires the completion of four courses, including BIO 150Y1; CHM (138HI, 139HI)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1.

#### Specialist program:

(12.5 full courses or their equivalent, including at least one 400-series course)

First Year:

BIO 150Y1; CHM (138HI, 139HI)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1; PHY 110Y/138Y1/140Y1

Higher Years:

1. BIO 250Y1/255Y1, 252Y1, BIO 260HI/HMB 265HI; BCH 210HI; CSB 349HI
2. CSB 330HI/350HI, CSB 331HI/BCH 304HI, CSB 428HI
3. 0.5 FCE from the following: BCH 422HI, 426HI, 445HI, CSB 327HI, 347HI
4. 3.0 FCEs from the following: BCH 440HI, BCH 441HI/CSB 472HI, CSB 299Y1, 328HI, 332HI, 340HI, 351Y1, 357HI, 429HI, 430HI, 450HI, 452HI, 458HI, 459HI, 473HI, 497HI/498Y1/499Y1

### Comparative Animal Physiology (Science program)

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#### Specialist program:

(12 or 12.5 full courses or their equivalent, including at least one 400-series course)

First Year:

BIO 150Y1; CHM (138HI, 139HI)/151Y1; JMB 170Y1/MAT 135Y1/137Y1; PHY 110Y1/138Y1/140Y1

Higher Years:

1. BIO 250Y1/255Y1, 252Y1, BIO 260HI/HMB 265HI (BIO 260HI is recommended); CHM (220HI, 247HI)/249HI
2. STA 220HI
3. BCH 210HI
4. CSB 345HI/346HI/PSY 397HI; CSB 325HI/344HI; CSB 332HI; CSB 347HI
5. CSB (425HI, 430HI)/485Y1
6. One full course equivalent from: BIO 251Y1/BCH 370HI/CSB 349HI/497HI/498Y1/ PSL 302Y1/372HI/PSY 497HI

### Developmental Biology (Science program)

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Enrolment in this program is limited, and requires a minimum CGPA of 2.5. Enrolment also requires the completion of four courses, including BIO 150Y1; CHM (138HI, 139HI)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1.

#### Specialist program:

(12.5 full courses or their equivalent, including at least one 400-series course)

First Year:

BIO 150Y1; CHM (138HI, 139HI)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1

Higher Years:

1. BCH 210HI; BIO 250Y1/255Y1, 251Y1/252Y1, 260HI; CHM 220HI/247HI/249HI
2. CSB 349HI
3. CSB 328HI, 340HI
4. 2.5 (or 3.5\*) courses from: ANA 300Y1, 301HI; BCH 304HI, 340HI, 370HI, 425HI, 426HI; CSB 327HI, 329HI, 330HI, 331HI, 344HI, 350HI, 425HI, 450HI, 459HI, 460HI, 472HI, 473HI; EEB 310HI, 341HI, 460HI; IMM 334Y1/335Y1, 429HI; JBI 428HI; MGY 312HI, 425HI, 428HI, 451HI, 452HI, 470HI; PSL 303Y1, 420HI
5. 1.0 (or 2.0\*) courses from CSB 429HI, 430HI, 458HI, 461HI, 482Y1, 498Y1; MGY 480Y1

\* Requirements 4 and 5 must include a total of at least 4.5 full courses

### Molecular Plant Biology (Science program)

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#### Specialist program:

(11.5 full courses or their equivalent, including at least one 400-series course)

Enrolment in this program requires completion of four courses, including BIO 150Y1, CHM (138HI, 139HI)/151Y1 and JMB 170Y1/MAT 135Y1/136Y1/137Y1; no minimum GPA is required.

First Year:

BIO 150Y1; CHM (138HI, 139HI)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1

Second Year:

BCH 210HI, BIO 250Y1/255Y1, 251Y1, 260HI; CHM 220HI, 247HI

Third and Fourth Years:

1. CSB 349HI, 459HI, 460HI

# Life Sciences: Cell and Systems Biology

2. 3.0 courses CSB 340HI, 350HI, 351YI, 450HI, 452HI, 472HI, 473HI, 497HI, 498YI, 499YI; EEB 331HI, 341HI, 497HI/498YI/499YI

NOTE: no Molecular Plant Biology Major program exists; therefore, a student may qualify for a Botany major after third year.

**Neuroscience: see Life Sciences: Human Biology**

**Zoology: see Biology**

## Cell and Systems Biology Courses

For Distribution Requirement purposes, all BIO and CSB courses are classified as SCIENCE courses (see page 27).

### **CSB200YI Current Topics in Molecular Biology 52L, 26P**

This course is intended to provide non-science students with an understanding of basic concepts in molecular biology to allow them to explore, and analyze current scientific issues and controversies covered in the media and relevant to society at large.

This course counts as a Science Distribution Requirement for students in all years and disciplines; particularly suitable for Humanities and Social Science students.

Exclusion: BIO250YI/255YI

### **BIO250YI Cell and Molecular Biology 52L, 36P**

An introduction to the structure and function of cells at the molecular level: key cellular macromolecules; transfer of genetic information; cell structure and function; cellular movement and division; modern investigative techniques. Consult web page for the most current information: <http://bio250y.chass.utoronto.ca/>

Exclusion: BIO255YI

Prerequisite: BIO150YI, CHM (138HI, 139HI)/151YI

Recommended preparation: BCH210HI (taken concurrently or previously)

### **BIO252YI Animal Physiology: Cells to Systems (formerly ZOO 252YI) 52L, 18P**

The main ideas of physiology and the contribution of experimentation to our understanding of life processes. Uses examples from throughout the animal kingdom, and includes the physiology of nervous, muscular, sensory and endocrine systems, homeostasis and control mechanisms, respiration, blood circulation, thermoregulation, and bioenergetics.

Exclusion: ZOO 252YI

Prerequisite: BIO150YI

### **BIO255YI Cell and Molecular Biology with Advanced Laboratory 52L, 36P**

An introduction to the structure and function of cells at the molecular level: key cellular macromolecules; transfer of genetic information; cell structure and function; cellular movement and division. 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.

Exclusion: BIO250YI

Prerequisite: BIO 150YI, CHM (138HI, 139HI)/151YI, cGPA 3.0

Recommended preparation: BCH210HI (taken concurrently or previously)

### **BIO260HI Concepts in Genetics 39L, 13T**

This is a problem based course which discusses classical, molecular, developmental, and population genetics and genomics with emphasis on model organisms for genetic analysis.

Exclusion: HMB265HI

Prerequisite: BIO150YI

Co-requisite: BIO250YI/255YI

### **CSB299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

### **CSB310HI Crustacean Aquaculture in Thailand: Physiological and Molecular Approaches (formerly BIO 310HI) TBA**

Successful farming of tiger shrimp faces a number of biological, environmental and economic challenges. Some of these challenges are being met by gathering information pertaining to nutrition, growth, reproduction and disease resistance. During two weeks of field time in Thailand, students will learn the basic techniques in crustacean aquaculture and undertake individual projects related to these areas by using physiological and molecular biological techniques. Students must attend a one-day orientation in Toronto in May.

Exclusion: BIO 310HI

Prerequisite: BIO 250YI/255YI, 252YI

### **CSB325HI Endocrine Physiology (formerly ZOO 325HI) 26L**

The regulation of physiological processes by hormones and other signalling molecules in 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.

Exclusion: ZOO 325HI

Prerequisite: BIO 252YI/PSL 302YI

Recommended preparation: EEB 265YI

### **CSB327HI Extracellular Matrix Macromolecules (formerly ZOO 327HI) 39L**

Examines 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 biophysical 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.

Exclusion: ZOO 327HI

Prerequisite: BIO250YI/255YI

### **CSB328HI Developmental Biology (formerly ZOO 328HI) 26L, 26T**

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 demonstrate examples of descriptive and experimental embryology and discuss primary literature of selected topics in developmental biology.

Exclusion: ZOO 328HI

Prerequisite: BIO250YI/255YI, 260HI/HMB 265HI

# Life Sciences: Cell and Systems Biology

- CSB329HI Evolution of Development 26L, 26T (formerly ZOO 329HI)**  
 This course begins with a comparison of embryonic development in the major animal taxa. The evolution of developmental mechanisms is then considered with emphasis on the molecular and genetic basis of these mechanisms. Subsequent discussion examines the impact of developmental processes on the evolution of animal diversity. Tutorials feature the study of embryos representing diverse animal taxa.  
 Exclusion: ZOO 329HI  
 Prerequisite: CSB 328HI/(BIO250Y1/255Y1, BIO260HI/HMB265HI and permission of instructor)  
 Recommended preparation: CSB 328HI
- CSB330HI Techniques in Molecular, Cellular and Developmental Biology 13L, 39S (formerly ZOO 330HI)**  
 A laboratory based course in current research techniques, employing animal model organisms (fruit fly, zebrafish, frog) and experimental methods including basic molecular and cell biology techniques.  
 Exclusion: MGY432HI, ZOO330HI  
 Prerequisite: BIO 250Y1/255Y1, BIO 260HI/HMB 265HI  
 Recommended preparation: CSB328HI
- CSB331HI Advanced Cell Biology I: Cell Adhesion and Migration (formerly ZOO 331HI) 39L**  
 The development of multicellular organisms is dependent on a broad variety of different cell-cell and cell-matrix adhesive mechanisms. 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 and alter structure-function relationships in cells and organisms.  
 Exclusion: BCH 304HI, ZOO 331HI  
 Prerequisite: BIO 250Y1/255Y1
- CSB332HI Neurobiology of the Synapse 26L, 13T (formerly ZOO 332HI)**  
 Examination of all aspects of the synapse in both the peripheral and central nervous systems of invertebrates and vertebrates. Topics include: synapse formation, synaptic transmission, synaptic plasticity, learning and memory, and neurological disorders.  
 Exclusion: ZOO 332HI  
 Prerequisite: BIO252Y1/PSL201Y1/302Y1
- CSB340HI Plant Development (formerly BOT 340HI) 26L**  
 Plant developmental genetics at the molecular, cellular and organismal level, generation and use of genomic resources in plant model organisms. Plant embryo and meristem development, as well as vascular tissue patterning. Genomic approaches applicable to plant biotechnology are included.  
 Exclusion: BOT 340HI  
 Prerequisite: BIO150Y1, 250Y1/255Y1, 260HI
- CSB344HI Comparative Endocrinology of Invertebrates (formerly ZOO 344HI) 26L**  
 The importance of neurohormones and hormones in the regulation of reproduction, growth, metamorphosis and metabolism in arthropods, especially insects and crustaceans, molluscs, and other invertebrates.  
 Exclusion: ZOO 344HI  
 Prerequisite: BIO252Y1
- CSB345HI Biology of Sleep (formerly ZOO 345HI) 26L, 10T**  
 Covers theories on the biological function of sleep-wake states – why and how animals sleep. Integrates all levels of organization, including molecular biology, homeostasis, bioenergetics, neurophysiology, endocrinology, behaviour and evolution, with comparisons across phyla.  
 Exclusion: ZOO 345HI  
 Prerequisite: BIO252Y1/PSL302Y1
- CSB346HI Neurobiology of Respiration (formerly ZOO 346HI) 26L, 13T**  
 Integrated control of cardio-respiratory physiology and metabolism in vertebrates. Topics include exercise, diving, sleep and hibernation.  
 Exclusion: ZOO 346HI  
 Prerequisite: BIO252Y1/ PSL302Y1
- CSB347HI Comparative Cellular Physiology (formerly ZOO 347HI) 26L**  
 In-depth survey of unique cellular adaptations of different tissues and organisms to overcome environmental stresses such as hypoxia. Emphasis is placed on cellular strategies, particularly second messenger responses, although systematic and whole organism responses will be investigated. Broad-ranging common strategies among diverse organisms are examined.  
 Exclusion: ZOO 347HI  
 Prerequisite: BIO252Y1/PSL302Y1
- CSB349HI Eukaryotic Gene Expression (formerly BIO349HI) 22L, 18T**  
 Genome structure and the regulation of gene expression in eukaryotic cells. Topics include gene duplication, repetitive DNA, transcription, RNA interference and expression profiling. Tutorials emphasize problem based learning exercises that relate to recent advances in the broad field of eukaryotic gene expression.  
 Exclusion: BIO 349HI, MGY311Y1, 420HI, PSL350HI  
 Prerequisite: BIO250Y1/255Y1, BIO260HI/HMB265HI  
 Recommended preparation: BCH210HI/320Y1
- CSB350HI Laboratory in Molecular Plant Biology (formerly BOT 350HI) 26L, 39P**  
 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.  
 Exclusion: BOT 350HI  
 Prerequisite: BIO250Y1/255Y1, 260HI/HMB265HI  
 Recommended preparation: BIO251Y1 or higher level plant biology course; CSB349HI/MGY311Y1 concurrently
- CSB351YI Introductory Virology (formerly BIO 351YI) 52L, 104T**  
 An introduction to basic and medical virology. Attendance in tutorials is optional.  
 Exclusion: BIO 351YI  
 Prerequisite: BIO250Y1/255Y1
- CSB352HI Bioinformatic Methods (formerly BIO 352HI) 26L**  
 Use of available programs for analyzing biological data. This is an introductory course with a strong emphasis on hands-on methods meant for Biology and Human Biology/GGB specialists/majors. Some theory is introduced, but the main focus is on using extant bioinformatic tools to analyze data and generate biological hypotheses.

# Life Sciences: Cell and Systems Biology

Exclusion: BCB Specialist program students, BIO 352HI

Prerequisite: BIO250YI/255YI, 260HI/HMB265HI

**CSB353HI Introduction to Plant-Microbe Interactions** 26L  
(formerly BOT 351HI)

Plants have co-evolved with microbes ever since their first appearance on land, resulting in sophisticated strategies of pathogenicity, symbiosis, commensalisms and mutualism. This course presents an overview of these strategies with examples of bacteria, fungi, oomycetes and viruses that have evolved intimate associations with plants.

Exclusion: BOT 351HI

Prerequisite: BIO150YI

Recommended preparation: BIO251YI

**CSB357HI Biology of Vector-Borne Parasitic Diseases** 26L, 24P, 10T  
(formerly ZOO 357HI)

The biology of malaria and other medically important vector-borne parasitic diseases. Topics include history of medical parasitology, parasite development in human and invertebrate hosts, epidemiology, adaptations to intra- and extracellular life and switching between hosts, effects on host physiology, immunity and behaviour, implications for vaccine and vector control and lessons regarding zoonoses and emergent infectious diseases. Laboratories and discussions complement formal lectures.

Exclusion: ZOO 357HI

Prerequisite: BIO 250YI/255YI

**CSB398H0/ Independent Experiential Study Project** 399Y0

An instructor-supervised group project in an off-campus setting. See page 47 for details.

## 400-Series Courses

**CSB425HI Endocrinology of Transformation** 26L, 13T  
(formerly ZOO 425HI)

The student will investigate the endocrine and paracrine signalling mechanisms that act to coordinate the reorganization of tissues in animals in special situations. The topics covered will include metamorphosis in agnathans and amphibians, sex change in teleost fishes, limb and regeneration in reptiles and amphibians, and neural regeneration in birds and mammals.

Exclusion: ZOO 425HI

Prerequisite: CSB 325HI/PSL 424HI; CGPA 2.7

**CSB428HI Advanced Cell Biology II: Cell Polarity and Cytoskeletal Dynamics** 26L

This advanced course covers cell polarity and cytoskeletal dynamics emphasizing current literature. For each topic, the course examines (1) the proteins involved, (2) their interactions and regulation, and (3) how they organize specific cellular structures. The coordination of these complexes required for orchestrating complex cellular processes are addressed.

Prerequisite: CSB 349HI/MGY 311YI

**CSB429HI Germ Cell Biology** 13L, 26S  
(formerly ZOO 429HI)

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. In the

accompanying seminar, primary literature is used to discuss selected topics in germ cell biology.

Exclusion: ZOO 429HI

Prerequisite: CSB328HI/329HI/340HI/349HI/MGY312HI

**CSB430HI Developmental Neurobiology** 26L, 13T  
(formerly ZOO 430HI)

An examination of the molecular genetic basis of nervous system formation. Experimental evidence from recent studies in selected invertebrate and vertebrate model systems will be discussed.

Topics include the evolution of neural development, neural cell fate determination, neurogenesis, pattern formation, and axon guidance.

Exclusion: ZOO 430HI

Prerequisite: CSB328HI/(NRS 201HI, 202HI)

**CSB450HI Plant Proteomics in Systems Biology** 26L  
(formerly BOT 450HI)

This course introduces students to proteomics and metabolomics approaches, such as mass spectrometry, structural biology, 2D gel electrophoresis, in understanding the regulation of metabolic pathways in plants.

Exclusion: BOT 450HI

Prerequisite: BIO250YI/255YI, BCH210HI

**CSB452HI Plant-Microorganism Interaction** 48L  
(formerly BOT 452HI)

This course explores the molecular strategies that microbes and plants have evolved to live with each other. The variety of strategies will be summarized with emphasis on the molecular mechanisms of pathogenic and symbiotic relationships.

Exclusion: BOT 452HI

Prerequisite: MGY311YI/BIO349HI

Recommended preparation: BIO251YI

**CSB457HI Vector Biology** 26L, 26T

Biology of vectors, primarily hematophagous insects, of human parasitic, microbial and viral diseases. Emphasis is on the cellular and molecular interactions between the vectors and the pathogens they transmit and on vector defense/immunity mechanisms mounted against them.

Prerequisite: CSB349HI/MGY311YI, CSB 357HI

Recommended preparation: A course in entomology

**CSB458HI Epigenetics** 39S  
(formerly BIO 458HI)

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.

Exclusion: BIO 458HI

Prerequisite: BIO 260HI/HMB 265HI, CSB 349HI/MGY 311YI

Recommended preparation: HMB 321HI

**CSB459HI Plant Molecular Biology and Biotechnology** 26L  
(formerly BOT458HI)

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

# Life Sciences: Cell and Systems Biology

scientific information in biotechnological strategies for improving agronomic traits will also be addressed.

Exclusion: BOT 458HI

Prerequisite: CSB349HI/MGY311YI

## **CSB460HI Plant Molecular Genetics 26L** (formerly MGY 460HI)

Structure, organization, expression and regulation of genes in the nucleus and chloroplast of photosynthetic organisms; regulation of gene expression during plant development and in response to the environment.

Exclusion: MGY460HI

Prerequisite: BCH321YI/CSB349HI/MGY311YI or permission of instructor

## **CSB461HI Chromosome Biology 26L, 26T** (formerly BIO461HI)

Exploration of the relationships between chromosome structure, function and behaviour. This is an upper level genetics course with considerable cell/molecular biology content. Topics include chromatin structure, essential chromosomal elements, control of mitotic and meiotic segregation, chromosome evolution, genomic imprinting. Tutorials emphasize student discussion of recent primary research papers.

Exclusion: BIO461HI

Prerequisite: BIO250YI/255YI, 260HI/HMB265HI, CSB349HI/HMB 321H/MGY311YI

## **CSB472HI Computational Genomics 26L, 13T** and Bioinformatics (formerly BIO472HI)

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 microarray analysis. Applied, theoretical and statistical issues will be addressed.

Exclusion: BCH 441HI, BIO 472HI

Prerequisite: BIO250YI/255YI

Recommended preparation: BIO 260HI/HMB 265HI

## **CSB473HI Chemical Genomics 26L** (formerly BIO473HI)

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 (such as phage display and other selection schemes). Examines both the underlying biological and chemical concepts; however, the focus is primarily biological.

Exclusion: BIO473HI

Prerequisite: BIO150YI, CHM247HI

Recommended Preparation: BIO250YI/255YI, BCH210HI

## **CSB474HI Methods in Genomics and Proteomics 60P**

This hands-on, laboratory based course, offered through the Centre for the Analysis of Genome Evolution and Function (CAGEF), 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 extraction, PCR, DNA sequencing, quantitative PCR, transcript profiling using microarrays, 2D-gel proteome analysis, and associated bioinformatics analyses.

Prerequisite: BIO260HI/HMB265HI, BIO255HI/CSB330HI/350HI or by permission of the instructor

Recommended Preparation: CSB349HI/MGY311YI

## **CSB482YI Developmental Biology Seminar 52S** (formerly BIO 482YI)

A class directed seminar analyzing the major problems in developmental biology from cellular, genetic, and molecular perspectives.

Exclusion: BIO 482YI

Prerequisite: CSB 328HI and/or CSB 340HI

## **CSB485YI Research in Physiology 26T, 78P** (formerly ZOO485YI)

The experimental basis of modern animal physiology: techniques and instrumentation and their importance to current physiological concepts, using examples from the literature and the research programs of members of the Department.

Exclusion: ZOO485YI

Prerequisites: BIO252YI/PSL302YI; one course from CSB325HI/332HI/344HI/345HI/346HI/347HI/EEB375HI, 300-level laboratory courses(s) with 39P

## **CSB486HI Advanced Topics In Integrative 26S** Physiology

This course is designed for both 4th year undergraduate students in the Comparative Animal Physiology Specialist Program and Graduate Students in the early years of their program. The course focuses on the treatment and presentation of complex physiological data using integrated and comparative approaches. The format is a combination of lectures, group discussions and student presentations. The final mark will be composed of grades for student presentations, participation, a critique of scientific manuscripts and final written report.

Prerequisite: One course from CSB325HI/332HI/344HI/345HI/346HI/347HI

## **CSB497HI/ Project in Cell and Systems TBA** 498YI Biology I (formerly ZOO 498YI)

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 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 normally open only to Fourth Year students with adequate background in Cell and Systems Biology. All students are required to make written and, perhaps, oral presentations of the results of their projects and participate in a poster session. A copy of a written report must be submitted to the Undergraduate Office.

Exclusion: BOT460YI/461HI/462YI/463HI/ZOO498YI/499YI

## **CSB499YI Project in Cell and Systems TBA** Biology II (formerly ZOO499YI)

Allows students to do a second independent project, supervision of which must be different from CSB497HI/498YI. Operates in the same manner as CSB497HI/498YI.

Exclusion: BOT 462YI/463HI/ZOO499YI

Prerequisites: CSB497HI/498YI



# Life Sciences: Ecology and Evolutionary Biology

## Faculty

### Professors Emeriti

P.W. Ball, B Sc, Ph D (UTM, BOT)  
D.G. Butler, M Sc, Ph D, D Sc, FRSA (ZOO)  
D.A. Chant, MA, Ph D, LL D, FRSC (ZOO)  
C.S. Churcher, M Sc, Ph D (ZOO)  
N.G. Dengler, MS, Ph D (BOT)  
S.S. Desser, M Sc, Ph D (ZOO)  
D.W. Dunham, BS, Ph D (ZOO)  
J.B. Falls, BA, Ph D (ZOO)  
R.I.C. Hansell, B Sc, Ph D (ZOO)  
H.H. Harvey, M Sc, Ph D (ZOO)  
R.L. Jefferies, B Sc, Ph D (BOT)  
D.W. Malloch, MA, Ph D (BOT)  
P.F. Maycock, M Sc, Ph D (UTM, BOT)  
G.K. Morris, MS, Ph D (UTM, ZOO)  
N. Mrosovsky, BA, Ph D (ZOO)  
C. Nalewajko, B Sc, Ph D (UTSC, BOT)  
T.S. Parsons, AM, Ph D (ZOO)  
Z.A. Patrick, B Sc, Ph D (BOT)  
R.C. Plowright, MA, Ph D (ZOO)  
H.A. Regier, MS, Ph D (ZOO)  
J.C. Ritchie, Ph D, D Sc (UTSC, BOT)  
J. Svoboda, B Sc, Ph D (UTM, BOT)  
G.M. Telford, B Sc, Ph D (ZOO)

### Professor and Chair of the Department

R.L. Baker, M Sc, Ph D

### Professor and Associate Chair (Research)

R.F. Sage, MS, Ph D

### Professor and Associate Chair (Graduate Studies)

W.G. Sprules, MA, Ph D (UTM)

### Senior Lecturer and Associate Chair (Undergraduate Studies)

C.A. Goldman, M Sc

### Professors

P.A. Abrams, BS, Ph D, FRSC  
J.B. Anderson, BA, Ph D (UTM)  
S.C.H. Barrett, B Sc, Ph D, FRSC, FRS  
R. Boonstra, B Sc, Ph D (UTSC)  
D.R. Brooks, MS, Ph D, FRSC  
M.-J. Fortin, M Sc, Ph D  
J.H. Fullard, M Sc, Ph D (UTM)  
M.R. Gross, B Sc, Ph D  
D.T. Gwynne, B Sc, Ph D (UTM)  
D.A. Jackson, M Sc, Ph D  
L.M. Kohn, B Sc, Ph D (UTM)  
R.R. Reisz, M Sc, Ph D (UTM)  
J.D. Rising, BA, Ph D  
L. Rowe, M Sc, Ph D  
M.B. Sokolowski, B Sc, Ph D, FRSC (UTM)  
J.D. Thomson, MS, Ph D  
D.D. Williams, M Sc, Ph D (UTSC)  
A.P. Zimmerman, BA, Ph D

### Associate Professors

M.C.B. Andrade, M Sc, Ph D (UTSC)  
T.J. Carleton, B Sc, Ph D  
N.C. Collins, BA, Ph D (UTM)  
H. Cyr, M Sc, Ph D  
J.E. Eckenwalder, M Sc, Ph D  
D.K. Gibo, MA, Ph D (UTM)  
D.S. Guttman, B Sc, Ph D  
P.M. Kotanen, M Sc, Ph D (UTM)  
H.J. Kronzucker, B Sc, Ph D (UTSC)  
A.C. Mason, M Sc, Ph D (UTSC)  
D.A. McLennan, M Sc, Ph D  
F.H. Rodd, M Sc, Ph D

### Assistant Professors

A. Agrawal, B Sc, Ph D  
B. Chang, AB, Ph D  
A.D. Cutter, BS, PhD  
J. Levine, BA, Ph D (UTM)  
N.R. Lovejoy, M Sc, Ph D (UTSC)  
L.M. Manne, MS, Ph D (UTSC)  
T.L. Sage, MS, Ph D  
S. Stefanovic, M Sc, Ph D (UTM)  
J.R. Stinchcombe, BA, Ph D

Ecologists and evolutionary biologists recognize that all life has evolved and that an understanding of the central question of the origin and maintenance of diversity – from genomes to ecosystems – underlies all life sciences and is critical to our stewardship of life. Society needs to make informed decisions about sustainable development, global temperature change, control of invasive species, the preservation of genetic diversity and ecosystem integrity, and the control of emerging infectious diseases such as SARS and drug-resistant malaria. These are fundamentally evolutionary and ecological problems.

Research and teaching in the Department covers all life forms (microbes, fungi, plants, animals) and is aimed at an understanding of the diversity of life and all aspects of organismal biology in the natural world. Research faculty use a broad array of approaches in their studies, including molecular studies, laboratory experiments, computer and mathematical modeling, and field studies in many different areas of the world. Instruction provides opportunities for research projects conducted in the laboratory and the field. We offer a very wide range of courses that deal with molecular evolution, population and quantitative genetics, genomics, animal behaviour, population, community, and landscape ecology, evolutionary and ecological theory, biodiversity, conservation biology, and systematics. Students exposed to these subjects come to realize that the ecological and evolutionary underpinnings of life present a host of scientific problems that are both intellectually challenging and critical to our future.

The Department of Ecology & Evolutionary Biology offers five programs: Specialist programs in Behaviour, Ecology, and Evolutionary Biology; a Major program in Ecology & Evolutionary Biology; and a Minor program in Environmental Biology. The Department also jointly offers, with the Department of Cell & Systems Biology, Specialist, Major, and Minor programs in Biology, Botany, and Zoology. The Department of Ecology & Evolutionary Biology (EEB) arose, along with its sister department, the Department of Cell & Systems Biology (CSB), from a reorganization in 2006 of the previous departments of Botany and Zoology.

# Life Sciences: Ecology and Evolutionary Biology

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Students entering their first year in the life sciences take BIO150Y1. BIO150Y1 is taken by students who have successfully completed grade 12 Biology (or an equivalent course) and is a prerequisite for almost all further courses in the life sciences.

Students requiring more information about Ecology & Evolutionary Biology programs and courses please visit the departmental website or contact the Undergraduate Office, Earth Sciences Centre (25 Willcocks St.), Room 3055, [undergrad@eeb.utoronto.ca](mailto:undergrad@eeb.utoronto.ca).

Website: [www.eeb.utoronto.ca](http://www.eeb.utoronto.ca)

## Ecology & Evolutionary Biology Programs

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After completing 4.0 FCEs (four full courses or their equivalent), students in these programs are encouraged to discuss their course selections each year with the Department. Contact: [undergrad@eeb.utoronto.ca](mailto:undergrad@eeb.utoronto.ca)

Enrolment in the programs listed below requires completion of 4.0 FCEs; no minimum GPA is required.

### Behaviour (Science program)

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#### Specialist program:

(13 full courses or their equivalent, including at least 1.0 400-series FCE)

First Year: BIO150Y1; CHM (138HI, 139HI)/151Y1; JMB170Y1/  
MAT135Y1/136Y1/137Y1/157Y1

Higher Years:

- 2.5 FCEs: BIO250Y1/255Y1; BIO260HI/HMB265HI; PSY (290HI, 260HI/280HI)/BIO252Y1/ZOO252Y1
- 1.0 FCE in statistics from: PSY (201HI, 202HI); (STA 220HI, EEB/BIO 225HI) (recommended); STA (220HI, 221HI); (STA 220HI, JBS 229HI); STA (250HI, 255HI); STA (257HI, 261HI)
- 1.5 FCEs: EEB/ZOO 322HI; EEB/BIO 323HI; EEB/BIO 324HI
- 0.5 field course from: EEB/BIO 301HI, 302HI, 303HI, 305HI, 306HI, 307HI, 308HI, 309HI, 469HI; EEB/ZOO 304HI, 360HI, 361HI; EEB/BOT 304HI
- 1.0 400-series seminar course: EEB/BIO 494Y1/495Y1/496Y1 (496Y1 is recommended)
- 3.5 FCEs (at least 1.5 must be 300+ series) from: ANT436HI; BIO; EEB (excluding EEB 202HI, 214HI, 215HI, 216HI); ENV234Y1; HMB321HI; HPS323HI, 333HI, 353HI, 355HI; JZP; PSY (excluding PSY300HI); ZOO (excluding ZOO 200Y1, 214Y1, 215HI, 216HI)  
NOTE: EEB/BIO 319HI, 321HI; EEB/ZOO 362HI; PSY397HI/JZP326HI, PSY497HI/JZP428HI; PSY 260HI, 280HI, 362HI, 369HI, 390HI, 392HI, 393HI, 396HI, 399HI, 460HI, 490HI are recommended for this program. Students wishing to take PSY courses to fulfill the requirements of this program should take PSY100HI. To take additional PSY courses, students must be enrolled in a PSY program or have obtained a minimum of 70% in PSY100HI.

**Biology: see Biology**

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**Botany: see Biology**

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### Ecology (Science program)

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#### Specialist program:

(13 full courses or their equivalent, including at least 1.0 400-series FCE)

First Year: BIO150Y1; CHM (138HI, 139HI)/151Y1; JMB170Y1/  
MAT135Y1/136Y1/137Y1/157Y1

Higher Years:

- 3.5 FCEs: BIO250Y1/255Y1; BIO260HI/HMB265HI; BIO251Y1/BOT251Y1/BIO252Y1/ZOO252Y1; EEB265Y1/ZOO265Y1/ENV234Y1
- 1.0 FCE in statistics from: PSY (201HI, 202HI); (STA 220HI, EEB/BIO 225HI) (recommended); STA (220HI, 221HI); (STA 220HI, JBS 229HI); STA (250HI, 255HI); STA (257HI, 261HI)
- 0.5 FCE: EEB/BIO 323HI
- 0.5 field course from: EEB/BIO 301HI, 302HI, 303HI, 305HI, 306HI, 307HI, 308HI, 309HI, 469HI; EEB/ZOO 304HI, 360HI, 361HI; EEB/BOT 304HI
- 2.0 FCEs from: EEB/BIO 319HI, 321HI, 324HI, 328HI, 365HI, 370HI, EEB/ZOO 322HI
- 1.0 400-series seminar course: EEB/BIO 494Y1/495Y1/496Y1 (495Y1 is recommended)
- 1.5 FCEs (at least 0.5 must be 300+ series) from: ANT436HI, BIO, BOT (excluding BOT202Y1), CHM; EEB (excluding EEB 202HI, 214HI, 215HI, 216HI); ENV (excluding ENV200Y1); GGR (only Science courses); GLG (excluding GLG 100HI, 103HI, 105HI, 110HI); HMB321HI; HPS 323HI, 333HI, 353HI, 355HI; MAT; PHY (excluding PHY 100HI, 101HI); STA; ZOO (excluding ZOO 200Y1, 214Y1, 215HI, 216HI)  
NOTE: EEB/BIO 428HI, 440HI, 465HI, 469HI, 471HI, EEB/ZOO 375HI are recommended for this program.

### Ecology & Evolutionary Biology (Science program)

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#### Major program:

(8 full courses or their equivalent)

First Year: BIO150Y1; CHM (138HI, 139HI)/151Y1

Higher Years:

- 3.0 FCEs: BIO250Y1/255Y1; BIO260HI/HMB265HI; BIO/BOT 251Y1 or BIO/ZOO 252Y1 or EEB/ZOO 265Y1 or ENV234Y1; STA220HI
- 2.0 FCEs from: EEB/BIO 319HI, 321HI, 323HI, 324HI, 328HI, 362HI, 365HI, 370HI, EEB/ZOO 322HI
- 1.0 FCE from: BIO/BOT 251Y1; BIO/ZOO 252Y1; EEB (excluding EEB 202HI, 214HI, 215HI, 216HI); ENV234Y1; HPS 323HI, 333HI, 353HI, 355HI; JMB170Y1/MAT135Y1/136Y1/137Y1/157Y1

### Environmental Biology (Science program)

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#### Minor program:

(4 full courses or their equivalent)

- BIO150Y1; ENV234Y
- 2.0 FCEs from: EEB/BIO 319HI, 321HI, 323HI, 324HI, 328HI, 362HI, 365HI, 370HI, EEB/ZOO 322HI (a course in ecology and a course in evolution are recommended)

### Evolutionary Biology (Science program)

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#### Specialist program:

(13 full courses or their equivalent, including at least 1.0 400-series FCE)

First Year: BIO150Y1; CHM (138HI, 139HI)/151Y1; JMB170Y1/  
MAT135Y1/136Y1/137Y1/157Y1

# Life Sciences: Ecology and Evolutionary Biology

Higher Years:

- 2.5 FCEs: BIO250Y1/255Y1; BIO260HI/HMB 265HI; BIO251Y1/BOT251Y1/BIO252Y1/ZOO252Y1
- 1.0 FCE in statistics from: PSY (201HI, 202HI); (STA 220HI, EEB/BIO 225HI) (recommended); STA (220HI, 221HI); (STA 220HI, JBS 229HI); STA (250HI, 255HI); STA (257HI, 261HI)
- 2.0 FCEs: EEB/BIO 319HI, 323HI, 324HI, 362H
- 0.5 field course: EEB/BIO 301HI, 302HI, 303HI, 305HI, 306HI, 307HI, 308HI, 309HI, 469HI; EEB/ZOO 304HI, 360HI, 361HI; EEB/BOT 304HI
- 1.0 400-series seminar course: EEB/BIO 494Y1/495Y1/496Y1 (494Y1 is recommended)
- 3.0 FCEs (at least 1.0 must be 300+ series) from: ANT436HI; BIO; BOT (excluding BOT202Y1); CHM 220HI, 247HI/249HI; CSB 351Y1, 352HI, 357HI, 452HI, 458HI, 460HI, 472HI; EEB (excluding EEB 202HI, 214HI, 215HI, 216HI); ENV234Y1; GLG 110HI, 216HI; HMB321HI; HPS 323HI, 333HI, 353HI, 355HI; MAT235Y1/237Y1; PHY110Y1/138Y1/140Y1; PSY100HI/100Y1; ZOO (excluding ZOO 200Y1, 214Y1, 215HI, 216HI)  
NOTE: EEB/BIO 319HI, 321HI, 365HI, 370HI, 459HI, 460HI, 461HI, EEB/ZOO 462HI are recommended for this program.

**Zoology: see Biology**

## Ecology and Evolutionary Biology Courses

For Distribution Requirement purposes, all BIO and EEB courses, ENV234Y1, and JMB170Y1 are classified as SCIENCE courses (see page 27). All students, regardless of campus or Faculty, must abide by the stated course prerequisites and exclusions.

### 100-SERIES COURSES

**BIO150Y1 Organisms in Their Environment 52L, 36P**

Evolutionary, ecological, and behavioural responses of organisms to their environment at the level of individuals, populations, communities, and ecosystems. A prerequisite for advanced work in biological sciences. Attendance at weekly lecture tutorials is voluntary, yet highly recommended.

Prerequisite: Biology 12 or equivalent. Students without high school Biology must consult the BIO150 Office (bio150@utoronto.ca)

**JMB170Y1 Biology, Models, and Mathematics 78L**

Applications of mathematics to biological problems in physiology, genetics, evolution, growth, population dynamics, cell biology, ecology, and behaviour. Mathematical topics include: power functions and regression; exponential and logistic functions; binomial theorem and probability; calculus, including derivatives, max/min, integration, areas, integration by parts, substitution; differential equations, including linear constant coefficient systems; Markov processes; and chaos. This course is intended for students in Life Sciences.

Co-requisite: BIO150Y1

**SC1199Y1 First Year Seminar 52S**

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first

year students. It may serve as a distribution requirement course; see page 47.

### 200-SERIES COURSES

**BIO251Y1 Biology of Plants and Micro-organisms (formerly BOT251Y1) 52L, 39P**

An introduction to the biology of plants, fungi, and algae. Diversity of forms, reproductive patterns, structure, and physiology are emphasized. Labs demonstrate major species groups and the relationship between structure and function of plants.

Prerequisite: BIO150Y1

Exclusion: BOT251Y1

**EEB202HI Plants and Society (formerly BOT202Y1) 26L**

The continuing impact of new scientific technologies on society through changes in agriculture. Plant biology and domestication, genetic resource conservation, biological invasions, environmental pollution, genetic engineering, and biotechnology. Evaluation of the ecological implications of advances in modern plant science.

Exclusion: BIO150Y1/BOT202Y1

This course counts as a Science Distribution Requirement for students in all years and disciplines.

**EEB214HI Evolution and Adaptation (formerly ZOO214Y1) 26L, 12T**

Evolution and adaptation through natural selection. Concepts and application based on faunal life goals of habitat survival, food acquisition, predator avoidance, and reproduction. Topics include: speciation, mutation, co-evolution, symbiosis, pollination, cannibalism, parasitism, eusociality, and sexual and parental conflict. Essays, debates, and reading required.

Exclusion: BIO150Y1/323HI/EEB323HI/ZOO214Y1/324Y1

This course counts as a Science Distribution Requirement for students in all years and disciplines.

**EEB215HI Conservation Biology (formerly ZOO215HI) 26L, 13T**

Introduction to the scientific discipline that deals with threats, losses and recovery of endangered wildlife. Topics include: biodiversity, extinction, demography, genetic diversity, nature reserves, captive breeding; also endangered species laws, moral philosophies, and political, economic and social justice issues surrounding biodiversity. Essays and reading required.

Exclusion: EEB/BIO 365HI/ZOO215HI

This course counts as a Science Distribution Requirement for students in all years and disciplines.

**EEB216HI Marine Mammal Biology and Conservation (formerly ZOO216HI) 26L, 12T**

Introduction to ecological, evolutionary, physiological, and anatomical adaptations of marine mammals to their aquatic environment. Issues of conservation and environmental biology will also be covered. In tutorials the use of anatomical specimens (skulls, teeth, etc.) will be supplemented with video and other teaching tools.

Prerequisite: Biology 12 or equivalent

Exclusion: BIO/ZOO 216HI/252Y1; SC1199Y1: Marine Mammals in Their Environment

This course counts as a Science Distribution Requirement for students in all years and disciplines.

# Life Sciences: Ecology and Evolutionary Biology

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**EEB225HI     Biostatistics for Biological Sciences     26L, 26P**  
**(formerly BIO225HI)**

A statistics course designed especially for life science students, using biological examples 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 non-parametric tests.

Exclusion: BIO225HI/ECO220YI/227YI/GGR270HI/PSY202HI/SOC300YI/STA221HI/250HI/JBS229HI

Prerequisite: BIO150YI, STA220HI

**EEB263YI     Comparative Vertebrate Anatomy     26L, 78P, 26T**  
**(formerly ZOO263YI)**

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 fish and mammals are dissected in detail and other forms are dealt with briefly to illustrate selected anatomical features and to provide practical exposure to vertebrate construction.

Prerequisite: BIO150YI

Exclusion: ZOO263YI

**EEB265YI     Animal Diversity     52L, 78P**  
**(formerly ZOO265YI)**

Diversity of animals in the world. Special attributes, requirements and ecosystems of different groups of organisms and how they interact with each other and with humans. Labs emphasize recognition of major groups, and use living organisms when possible, but involve no invasive procedures.

Prerequisite: BIO150YI

Exclusion: ZOO265YI

**EEB299YI     Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**ENV234YI     Environmental Biology     52L, 39P**

A broad-based science course drawing on elements from geology, systematics, soil science, and ecology to understand past and present environments and how humans are altering the environment. Emphasis is placed on examination of ecological phenomena in relation to population, community, and ecosystem processes with particular reference to the biomes of Ontario. Descriptive and experimental laboratory studies including a weekend field trip (total cost about \$15.00). (Offered by the Department of Ecology & Evolutionary Biology, Department of Geology, and the Faculty of Forestry)

Prerequisite: BIO150YI (recommended) or GGR100YI

This is a Science course.

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## 300-SERIES COURSES

**EEB301HI     Marine Biology     TBA**  
**(formerly BIO301HI)**

Offered in the summer at Huntsman Marine Laboratory, St. Andrews, New Brunswick, of about 14 days duration. Informal lectures and seminars with intensive field and laboratory work on different marine habitats and the animals and plants associated with them. Student projects included.

Prerequisite: BIO150YI and permission of instructor

Exclusion: BIO301HI

Recommended preparation: Any second year ecology or environmental biology course

**EEB302HI     Arctic Ecosystems     TBA**  
**(formerly BIO302HI)**

Two-week summer field course offered in Churchill, Manitoba. Instruction combines lectures with field trips to local tundra and boreal forest sites. Students are responsible for completing an independent project based on local field work. Dates, instructors, and material covered vary from year to year. (Offered in alternate years)

Prerequisite: BIO150YI and permission of instructor

Exclusion: BIO302HI

Recommended preparation: At least one course in ecology

**EEB303HI     Tropical Ecology and Evolution     TBA**  
**(formerly BIO303HI)**

A field course during Reading Week introduces 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. Students conduct small-scale research projects in the field. Lectures will be given on Friday afternoons prior to departure.

Prerequisite: BIO150YI, any other Life Science course with a lab and permission of instructor

Exclusion: BIO303HI

**EEB304HI     Field Botany     TBA**  
**(formerly BOT304HI)**

A two-week course that aims to introduce students to the diversity of plants that can be found in southern Ontario, not only in the wild but also in botanical gardens or other living collections. The course studies field, herbarium, and laboratory methods used in plant organismic biology research. Topics include: plant collecting, plant identification, preparation of voucher specimens, plant reproductive biology, and plant diversity and phylogeny.

Prerequisite: BIO150YI and permission of instructor

Exclusion: BOT304HI

Recommended preparation: EEB330HI/BOT300HI, EEB337HI/BOT307HI

**EEB305HI     Experimental Ecology and Evolution in Southern Ontario     TBA**  
**(formerly BIO305HI)**

A field course offered at a Southern Ontario field station for two weeks in May or June. Students learn the natural history of the region and conduct a research project in the field. Projects focus on terrestrial plant ecology, plant-insect interactions, and other topics in evolutionary ecology selected by the students.

Prerequisite: BIO150YI, any other Life Science course with a lab, and permission of instructor

Exclusion: BIO305HI

Recommended preparation: a second- or third-year ecology, evolution or environmental science course

**EEB306HI     Inter-University Field Course     TBA**  
**(formerly BIO306HI)**

Inter-university selections from the offerings of the Ontario Universities Program in Field Biology. Courses, of one or two weeks duration at field sites from May through August, are announced each January. Consult the Ecology & Evolutionary Biology Undergraduate Office or website.

Prerequisite: Varies by module

Exclusion: BIO306HI

## Life Sciences: Ecology and Evolutionary Biology

<p><b>EEB307HI</b>     <b>Alpine Ecosystems</b>     <b>TBA</b> (formerly BIO307HI)</p> <p>A field course at a high mountain field station for two weeks in the summer. Students learn the natural history of alpine and subalpine biomes and investigate major abiotic and biotic interactions. Required projects catalogue natural diversity, examine species interactions, or assess abiotic influences and stresses on high-altitude organisms and their environment. Prerequisite: BIO150Y1, BIO/BOT 251Y1 or BIO/ZOO 252Y1, and permission of instructor Exclusion: BIO3071H</p>	<p><b>EEB323HI</b>     <b>Evolutionary Genetics</b>     <b>26L, 26T</b> (formerly BIO323HI)</p> <p>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 are expected to learn the mathematical foundations underlying these ideas. Topics include the population genetics of mutation, migration, drift, and selection, analysis of sequence variation, and the evolution of sexual reproduction. Prerequisite: BIO150Y, BIO260HI/HMB265HI, JMB170Y1/MAT135Y1/136Y1/137Y1/157Y1 Exclusion: BIO323HI Recommended: a good understanding of high school math, a course in statistics</p>
<p><b>EEB308HI</b>     <b>Biodiversity and Ecology</b>     <b>TBA</b> in Southeast Asia (formerly BIO308HI)</p> <p>Offered in early or late summer for approximately two weeks. Students conduct independent research projects and will be introduced to the biodiversity and ecology of the tropics. Projects will be tailored to each student's interests and background. Prerequisite: BIO150Y1 and permission of instructor Exclusion: BIO308HI Recommended preparation: EEB/ZOO 360HI/384HI/386HI/388HI</p>	<p><b>EEB324HI</b>     <b>Evolutionary Ecology</b>     <b>26L, 13T</b> (formerly BIO324HI)</p> <p>Empirical and theoretical approaches to key areas of research including foraging, natural and sexual selection, and life histories. Other topics may include phenotypic plasticity, quantitative genetics, and co-evolution. Prerequisite: EEB/BIO 323HI Exclusion: BIO324HI/ZOO324Y1</p>
<p><b>EEB309HI</b>     <b>Field Ornithology</b>     <b>TBA</b> (formerly ZOO304HI)</p> <p>Lectures on the biology of birds, and intensive field work emphasizing field identification, census techniques and habitat preferences. Student projects included. Offered for two weeks in the spring or summer at a field station. Prerequisite: BIO150Y1 and permission of instructor Exclusion: ZOO304HI</p>	<p><b>EEB328HI</b>     <b>Physiological Ecology</b>     <b>26L, 26T</b> (formerly BIO328HI)</p> <p>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: BIO/BOT 251Y1 or BIO/ZOO 252Y1 or equivalent Exclusion: BIO328HI</p>
<p><b>EEB319HI</b>     <b>Population Ecology</b>     <b>26L, 39P</b> (formerly BIO319HI)</p> <p>Distribution of species; population growth and regulation; interactions within and among species; food webs; harvesting of natural resources; diseases; pest control. Basic ecological principles and applied issues discussed. Labs include experiments and computer simulations. Prerequisite: BIO150Y1, JMB170Y1/MAT135Y1/136Y1/137Y1/157Y1 Exclusion: BIO319HI/320Y1 Recommended preparation: a course in statistics</p>	<p><b>EEB330HI</b>     <b>Systematic Botany</b>     <b>26L, 39P</b> (formerly BOT300HI)</p> <p>The theoretical foundations of taxonomy and the types of evidence used in constructing plant classifications. Labs emphasize taxonomic characters and their uses. Includes an independent taxonomic project. Prerequisite: BIO150Y1 Exclusion: BOT300HI Recommended preparation: EEB337HI//BOT307HI</p>
<p><b>EEB321HI</b>     <b>Community Ecology</b>     <b>26L, 39P</b> (formerly BIO321HI)</p> <p>A comprehensive survey of community and ecosystem ecology emphasizing current developments and controversies. There will be two or three required day field trips held on weekends early in the fall term. Both the field trips and computer exercises provide training in sampling, simulation, and data analysis. Prerequisite: BIO150Y1 and a course in statistics Exclusion: BIO320Y1/321HI Recommended preparation: ENV234Y1</p>	<p><b>EEB331HI</b>     <b>Introduction to the Fungi</b>     <b>26L, 39P</b> (formerly BOT301HI)</p> <p>Topics include fungal systematics, morphology, physiology, and ecology. The roles of fungi in the environment and their importance to man. A field trip explores the natural occurrence of fungi. Labs introduce the techniques used for morphological and molecular identification, and for isolation in pure culture. Students use fungal cultures to conduct an independent experimental research project. Prerequisite: BIO150Y1 Exclusion: BOT301HI Recommended preparation: BIO/BOT 251Y1</p>
<p><b>EEB322HI</b>     <b>Behaviour and Behavioural Ecology</b>     <b>26L, 39P</b> (formerly ZOO322HI)</p> <p>A broad introduction to animal behaviour emphasizing concepts from ethology and behavioural ecology. Field and laboratory studies are undertaken. Prerequisite: BIO150Y1, PSY201HI/STA220HI/250HI/257HI Exclusion: ZOO322HI</p>	<p><b>EEB337HI</b>     <b>Families of Vascular Plants</b>     <b>26L, 39P</b> (formerly BOT307HI)</p> <p>Variation in morphology, predominant breeding systems, dispersal syndromes, and other features between families of vascular plants in the Ontario flora are examined. Students learn key characteristics for identification of important families of ferns, fern allies, conifers, and flowering plants. Prerequisite: BIO150Y1 Exclusion: BOT307HI</p>

# Life Sciences: Ecology and Evolutionary Biology

**EEB340HI Comparative Plant Morphology (formerly BOT310HI) 26L, 39P**

Evolution of vegetative and reproductive morphology of land plants is examined. Lecture topics cover evolution of meristems, shoot architecture and vascular tissue as well as evolution of the land plant life cycle, the ovule habit, fertilization processes, and pollination biology.

Prerequisite: BIO150Y1

Exclusion: BOT310HI

**EEB341HI Plant Anatomy (formerly BOT341HI) 26L, 39P**

The microscopic structure of plants with emphasis on the characteristics of cells and tissues, how they are formed from plant meristems and how they function in transport, photosynthesis, transpiration, absorption, and reproduction. (Not offered in 2007-08)

Prerequisite: BIO/BOT 251Y1

Exclusion: BOT341HI

**EEB353HI History of Evolutionary Biology I (formerly ZOO354Y1; also listed as HPS353HI) 26L, 13T**

An examination of major ideas about biological evolution from the 18th century to the 1930s and of their impact on scientific and social thought. Topics include the diversity of life and its classification, the adaptation of organisms to their environment, Wallace's and Darwin's views on evolution by natural selection, sexual selection, inheritance from Mendel to T.H. Morgan, eugenics, and the implications of evolution for religion, gender roles, and the organization of society.

Exclusion: ZOO354Y1/HPS323HI/353HI

Prerequisite: 6 full courses or equivalent including BIO150Y

This counts as a Humanities or Science course.

**EEB355HI History of Evolutionary Biology II (formerly ZOO354Y1; also listed as HPS355HI) 26L, 13T**

An examination of ideas about biological evolution from the 1930s to the present. Topics include the Modern Synthesis, population genetics, the concept of biological species, ecology, sociobiology, and creationism.

Exclusion: ZOO354Y1/HPS333HI/355HI

Prerequisite: EEB353HI/HPS323HI/353HI

This counts as a Humanities or Science course.

**EEB356HI Insect Biology (formerly ZOO356HI) 26L, 18P**

Lectures provide an introduction to the morphology, physiology, development, behaviour, evolutionary history and biological significance of insects. Labs will include demonstrations, multimedia, and independent student projects and presentations. (Offered in alternate years)

Exclusion: EEB/ZOO 360HI, ZOO356HI

Prerequisite: BIO150Y1

**EEB360HI Entomology (formerly ZOO360HI) 26L, 39P**

Introduction to the morphology, physiology, development, behaviour, ecology, evolutionary history, and biological significance of insects. Labs include making an insect collection. Mandatory one week of fieldwork in Algonquin Park at the end of August.

EEB/ZOO 360HI can be used to fulfil a program's field course requirement. (Offered in alternate years)

Exclusion: EEB/ZOO 356HI, ZOO360HI

Prerequisite: BIO150Y1

**EEB361HI Field Entomology (formerly ZOO361HI) TBA**

A field and laboratory course to provide practical experience in techniques for collecting and studying insects. Students will each prepare an insect collection and/or conduct a small-scale research project.

Prerequisite: EEB/ZOO 356HI/360HI, and permission of instructor

Exclusion: ZOO361HI

**EEB362HI Introduction to Macroevolution (formerly ZOO362HI) 26L, 26T**

Explores patterns of large-scale evolutionary change, played out over large geographic expanses and extended periods of time. Integrates patterns with field and experimental studies to clarify evolutionary processes. Topics include: origins of species and their adaptations, historical biogeography, co-evolution, community evolution, and the role of evolutionary information in conservation and biodiversity initiatives. Tutorials emphasize methods used to reconstruct phylogenetic relationships.

Prerequisite: BIO150Y1

Exclusion: ZOO362HI

**EEB365HI Biodiversity and Conservation Biology (formerly BIO365HI) 26L, 26P**

Introduction to the study and conservation of biodiversity at all levels – genes, species, communities, and ecosystems. Includes threats to biodiversity and approaches to maintaining biodiversity. Practicals include computer labs and small group discussions of lecture topics.

Prerequisite: BIO150Y1

Co-requisite: One of EEB/BIO 319HI/321HI/323HI/324HI or EEB/ZOO 322HI

Exclusion: BIO365HI

**EEB370HI Theoretical Ecology and Evolution (formerly BIO370HI) 26L, 26P**

Introduction to mathematical modeling techniques used in ecological and evolutionary theory. Applications include understanding the dynamics of populations and ecological communities and the evolution of ecologically important characteristics within species. Includes applied linear algebra, dynamic systems models, optimization techniques, and game theory. Requires good knowledge of first-year calculus, but not extensive mathematical background. Computer lab once a week.

Exclusion: EEB/BIO 470HI, BIO370HI

Prerequisite: BIO150Y1, JMB170Y1/MAT135Y1/137Y1/157Y1

**EEB375HI Environmental Factors (formerly ZOO375HI) 39L**

A lecture and seminar course dealing with the effects of physical and chemical environments on animals.

Prerequisite: BIO150Y1

Exclusion: ZOO375HI

Recommended preparation: BIO/ZOO 252Y1, EEB/BIO 319HI/321HI or ENV234Y1

# Life Sciences: Ecology and Evolutionary Biology

**EEB384HI    Biology of Amphibians    13L, 39P**  
(formerly ZOO384HI)

Introduction to the natural history, evolution, and diversity of amphibians. (Offered in alternate years)  
Prerequisite: EEB/ZOO 263YI  
Exclusion: ZOO384HI  
Recommended preparation: EEB/BIO 323HI, EEB/ZOO 362HI

**EEB386HI    Avian Biology    13L, 39P**  
(formerly ZOO386HI)

Avian diversity and evolution; adaptations for flight; physiology; migration and navigation; reproduction and social behaviour; species, speciation, and hybridization; population trends and conservation. Local field trips. An activity fee may be collected.  
Prerequisite: BIO150YI  
Exclusion: ZOO386HI  
Recommended preparation: an additional course in evolution, ecology or behaviour

**EEB388HI    Biology of Mammals    13L, 39P**  
(formerly ZOO388HI)

Natural history of mammals emphasizing ecology, community structure, behaviour, reproduction, and life history strategies; form and function related to different modes of life and physical environments. Labs include a survey of Ontario mammals. (Offered in alternate years)  
Prerequisite: EEB/BIO 323HI or BIO/ZOO 252YI or EEB/ZOO 322HI  
Exclusion: ZOO388HI

**EEB389HI    Mammalian Diversity    13L, 39P**  
(formerly ZOO389HI)

The origin, evolution, zoogeography, phylogenetic relationships, and diversity of mammals; speciation, extinction, and current issues in conservation biology. Labs survey mammalian orders, their characteristics, identification, and systematic relationships. (Offered in alternate years)  
Prerequisite: EEB/BIO 323HI or EEB/ZOO 362HI  
Exclusion: ZOO389HI

**EEB398H0/    Independent Experiential Study Project    399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

## 400-SERIES COURSES

NOTE: EEB 494YI, 495YI, 496YI are courses that are advanced in level and broad in scope, emphasizing the integration of related sub-disciplines, critical thinking, and the synthesis of ideas often crossing disciplinary boundaries. These courses, generally taken in fourth year, demand active student participation, and typically involve several instructors. Students can normally enrol in only one of these courses; students wishing to take more than one should contact the Ecology & Evolutionary Biology Undergraduate Office.

**EEB428HI    Global Change Ecology    39L**  
(formerly BIO428HI)

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. (Not offered in 2007-2008).  
Prerequisite: 1.0 FCE course from EEB/BIO/BOT/ZOO at the 300+ series  
Exclusion: BIO428HI  
Recommended preparation: ENV234YI

**EEB440HI    Ecology and Evolution of    26L, 13T**  
**Plant-Animal Interactions**  
(formerly BIO440HI)

Major concepts in ecology and evolution from the perspective of plant-animal interactions. The richness of interactions between plants and animals are explored, including antagonistic interactions (e.g., herbivory, carnivorous plants), mutualistic interactions (e.g., seed dispersal and ant-plant associations), and interactions involving two to many species and across trophic levels. (Not offered in 2007-2008).  
Prerequisite: EEB/BIO 301HI/302HI/303HI/304HI/305HI/306HI/307HI/308HI/309HI/319HI/321HI/323HI/324HI/328HI or equivalent  
Exclusion: BIO440HI

**EEB459HI    Population Genetics    26L, 13T**  
(formerly BIO459HI)

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: BIO260HI/HMB265HI, EEB/BIO 323HI  
Exclusion: BIO459HI  
Recommended preparation: a solid understanding of basic algebra and calculus

**EEB460HI    Molecular Evolution    26L, 13T**  
(formerly BIO460HI)

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: BIO250YI/255YI, BIO260HI/HMB265HI  
Exclusion: BIO460HI

**EEB461HI    Advanced Evolutionary    26L, 26T**  
**Genomics**  
(formerly BIO463HI)

Study of the evolution of genes and genomes. Topics include: gene and genome duplication, molecular phylogenetics, methods of detecting selection, adaptive evolution of proteins, genome size evolution, comparative genomics.  
Prerequisite: EEB/BIO 460HI  
Exclusion: BIO463HI

**EEB462HI    Advanced Applications of    13L, 39P**  
**Phylogenetic Systematics**  
(formerly ZOO462HI)

Computer-assisted methods for constructing and testing phylogenetic hypotheses are introduced through lectures and labs. Molecular data are emphasized although morphological data may also be considered. Character coding, maximum parsimony, maximum likelihood, Bayesian inference, and nested clade analyses are discussed. Students prepare a comprehensive term paper based on analysis of individual data sets. (Offered in alternate years)  
Prerequisite: EEB/ZOO 362HI  
Exclusion: ZOO462HI  
Recommended preparation: basic computer literacy

**EEB465HI    Topics in Conservation Biology    39L**  
(formerly BIO465HI)

The principles of conservation biology from a Canadian and global perspective, including conservation practice and legislation, targets for conservation, methods of assessment and tools for recovery.

# Life Sciences: Ecology and Evolutionary Biology

This course provides students with an introduction to Canadian biodiversity initiatives, as well as insights into the current questions in conservation biology.

Prerequisite: One of EEB/BIO 319HI/321HI//323HI/324HI/365HI or EEB/ZOO 322HI, plus one other course in behaviour, ecology, evolution or genetics

Exclusion: BIO465HI

## **EEB468HI Lectures in Limnology 26L** (formerly BIO468HI)

Basic ecological principles and applied issues of physical, chemical and biological (microbes, algae, plants, invertebrates, fish) interaction in lakes and streams. Same lectures as EEB469HI, but no practical work. Major paper is expected to be equivalent to the field work required in EEB469HI. (Not offered in 2007-08; next offered in Fall 2008)

Exclusion: BIO368HI/468HI/469YI or EEB/BIO469HI

Prerequisite: CHM (138HI, 139HI)/151YI, EEB/BIO 319HI/321HI or ENV234YI

## **EEB469HI Limnology 26L, TBA** (formerly BIO469HI)

Basic ecological principles and applied issues of physical, chemical, and biological (microbes, algae, plants, invertebrates, fish) interactions in lakes and streams. Mandatory one-week field trip at the end of the summer preceding the Fall session to learn standard sampling techniques and data analysis and start integrating principles we will learn in class. No other labs during Fall session. An activity fee is collected. (Not offered in 2007-08; next offered in Fall 2008)

Exclusion: BIO368HI/468HI/469HI/469YI/EEB468HI

Prerequisite: CHM (138HI, 139HI)/151YI, EEB/BIO 319HI/321HI or ENV234YI

## **EEB471HI Quantitative Ecology 26L, 39P** (formerly BIO471HI)

This course examines aspects of quantitative ecology including approaches to ecological sampling, multivariate analysis of ecological communities and environmental conditions, null models, and spatial ecology. (Not offered in 2007-2008)

Prerequisite: EEB/BIO 319HI/321HI and a course in statistics

Exclusion: BIO471HI

## **EEB494YI Seminar in Evolutionary Biology 78S** (formerly BIO494YI)

Topics include evolutionary ecology and genetics, biodiversity, and behavioural ecology. Primary literature and research seminars form the basis for class discussion and short seminars. Discussions are led by students. Each instructor is responsible for a separate module.

Prerequisite: EEB/BIO 323HI, 324HI; one of EEB/BIO 319HI, 321HI, or EEB/ZOO 322HI; min. CGPA of 2.5; permission of instructor

Exclusion: BIO494YI

## **EEB495YI Seminar in Ecology 52S** (formerly BIO495YI)

Student-directed roundtable on current topics in ecology. The topics vary from year to year. The seminar activities include both oral and written analyses of current research articles, and may include group projects. Critical discussion of research methods is an important component of the course.

Prerequisite: EEB/BIO 319HI/321HI; one of EEB/BIO 319HI/321HI/324HI/365HI/ ENV234YI; min. CGPA of 2.5; permission of instructor

Exclusion: BIO495YI

## **EEB496YI Seminar in Behaviour and Behavioural Ecology 52S** (formerly BIO496YI)

Topics may include: history of ethology, behavioural ecology including predator-prey interactions, mate choice, and foraging. Evaluation is based on presentations, participation in class discussions and written assignments.

Prerequisite: EEB/ZOO 322HI; one of EEB/BIO 323HI/324HI, PSY397HI/JZP326HI, PSY362HI/369HI, EEB/ZOO 362HI, or a biology field course; min. CGPA of 2.5; permission of instructor

Exclusion: BIO496YI

## **EEB497HI/ Project in Ecology and Evolutionary Biology I 498YI TBA**

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 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 normally open only to Fourth-Year students with adequate background in ecology, evolutionary biology or behaviour. A copy of the final written report is submitted to the Undergraduate Office. Students are also required to give an oral presentation of the results and/or participate in a poster session. Students should contact their potential supervisor no later than April/May for projects that commence in September.

Exclusion: If EEB497HI is taken then EEB498YI may not be taken for credit; BOT460YI/461HI/462YI, ZOO498YI/499YI

Prerequisite: Permission of Department

## **EEB499YI Project in Ecology and Evolutionary Biology II TBA**

Allows students to do a second independent project, supervision of which must be different from EEB497HI/498YI. Operates in the same manner as EEB498YI.

Exclusion: BOT462YI; ZOO499YI

Prerequisites: EEB497HI/498YI or BOT460YI or ZOO498YI and permission of Department



# Life Sciences: Human Biology

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## Collaborative program of the Faculty of Arts & Science and the Faculty of Medicine

### Faculty

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#### Associate Professor and Program Director

Valerie M. Watt, Ph D

#### Senior Lecturer and Associate Program Director

R.G. Wilson Jr., MSc, Ph D

The Human Biology Programs are available to students entering their second year of study. Our multi-disciplinary programs integrate courses from the medical sciences, biological and social sciences, as well as the humanities. The goal of each program is to provide a broad education focused on an area of biological science relevant to humans. Students will receive a solid foundation in life science courses together with insight from the humanities and social sciences. Graduates will be equipped with a broad range of knowledge and skills to go into the job market or pursue further study in research, health sciences, biotechnology, law, education, and administration (check our web site at <http://www.hmb.utoronto.ca> for more career paths).

Humans are first and foremost animals, living organisms. As such, they share fundamental characteristics with all life - structure, chemistry, control mechanisms, behaviour, an ecological context, and an evolutionary history. Thus the study of human biology must entail a sound knowledge of basic life science. Humans have also developed unique characteristics, emergent properties, arising from their highly complex brains - their intricate behaviour, communication and conceptual abilities, and social structures. So a fuller appreciation of their biology also needs an understanding drawn from disciplines such as psychology, anthropology, and sociology. The Human Biology Programs are designed to do this.

We offer multiple Specialist programs as well as a Major program. The Genes, Genetics & Biotechnology Specialist program focuses on various aspects of genetics, including options in molecular and population genetics, and how genetics applies to the emerging fields of bioengineering and of biotechnology. The Global Health Specialist program provides worldwide perspectives on health and medicine encompassing social, political, and economic environments. The Health and Disease Specialist program examines the functioning of living organisms and how they respond to environmental conditions (both internal and external) that cause disease. The Neuroscience Specialist program, relevant to all aspects of the nervous system covers topics as diverse as mechanisms of learning and memory, pain, Alzheimer's disease and movement disorders such as Parkinson's disease and Lou Gehrig's disease. The Human Biology Major program provides a broad and flexible course of studying the basic medical sciences as well as other life sciences. The Environment & Health Specialist program provides a basic understanding of the complex relationships between the behaviour of Planet Earth and the working of the human body.

The first year for both Genes, Genetics and Biotechnology and the Health and Disease programs consists of 100-level courses in Biology, Chemistry and either Calculus or Physics, plus an introductory course in one of Anthropology, Philosophy, Psychology, Social Geography, or Sociology. This choice should be influenced by which of these areas students want to pick courses from in the upper years. The first year for Neuroscience is similar in requiring Biology, Chemistry and either Calculus or Physics, but students will need an introductory course in psychology for this program. For these three specialist programs, you are strongly recommended to take both calculus and physics in either first or second year. Both are important for higher-level life science courses and other life science programs. The first year of the Global Health program consists of a biology and physical science core and establishes an environment or resources management stream, complemented by a social science or humanities course.

Each of the specialist programs has core courses in second and third years tailored to meet the specific needs of its students. These courses concentrate on an area important to the program theme, and/or emphasize the interdisciplinary nature of the program theme by showing connections between its different subject areas. Each program requires a laboratory half course in third year; students may take either the appropriate HMB lab course, or one of the others listed. To complete the program, students will be able to choose from a range of options in third and fourth years, depending on their interests and which courses students have already taken, as well as availability. Options include 400-level advanced seminar courses and advanced research "project" courses.

The Human Biology Programs also includes a Human Biology Major, which provides a foundation of study in the life sciences. This program builds on a background in biology, chemistry and a choice of psychology, physics or mathematics. The upper years provide exposure to several disciplines within the life sciences. Students acquire a broad knowledge base which is valuable not only for those intending to pursue a career in science, but also for those with career interests in other areas such as business or education. For further information about the programs, see <http://www.hmb.utoronto.ca> or contact the Human Biology Programs Office, New College, 300 Huron Street (416) 946-5393 or e-mail us at [human.biology@utoronto.ca](mailto:human.biology@utoronto.ca).

## Human Biology Programs

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### Genes, Genetics and Biotechnology (Science program)

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#### Specialist program:

(14.5 to 15 full courses or their equivalent, including at least two 400-series courses)

Enrolment in this program is limited, and will be based on cGPA. Enrolment requires completion of four courses including the first year prerequisite courses.

First Year:

1. BIO 150Y1
2. CHM 138H1, 139H1
3. 1.0 FCE from: MAT 135Y1/136Y1/137Y1/157Y1; PHY 110Y1/138Y1/140Y1

# Life Sciences: Human Biology

4. 0.5 to 1.0 FCE from: ANT 100Y1; ECO 100Y1; GGR 107Y1/124Y1; PHL 100Y1/102Y1; PSY 100H1; SOC 101Y1; VIC 170Y1/171Y1

Second Year:

1. HMB 201H1, 265H1/BIO 260H1, BCH 210H1, BIO 250Y1/255Y1, CHM 247H1
2. 1.0 FCE from: ANT 203Y1/204Y1; ENV 236Y1; GGR 220Y1/233Y1/246H1/256H1/270H1; WGS 261Y1; PHL 240H1/245H1/255H1/273H1/275H1/281Y1; SOC 205Y1/207Y1/210Y1/212Y1/213Y1/214Y1/220Y1/242Y1/243H1/244H1/246H1/247H1/260Y1/263H1

Higher Years:

1. HMB 301H1, 321H1, CSB 349H1
2. 0.5 FCE science laboratory from: HMB 311H1; BCH 370H1; CSB 330H1/350H1; MGY 376H1; PSL 372H1
3. 2.0 FCE from the sciences: ANA 301H1; BCH 300-series (see Note 1 below); CSB 310H1/325H1/327H1/328H1/329H1/331H1/332H1/340H1/345H1/347H1/351Y1//352H1/353H1/357H1; EEB 323H1/324H1/341H1; IMM 334Y1; JZP 326H1; LMP 301H1/363H1; MGY 377H1/378H1; NFS 284H1/386H1; PCL 201H1/302H1; PSL 302Y1
4. 1.0 FCE from a Bio-Social or Social perspective: ANT 300-series; GGR 314H1/331H1/333H1/334H1/335H1/338H1/393H1; HPS 318H1/319H1/324H1/326H1/350H1/353H1/355H1; WGS 365H1/366H1/367H1/368H1/372H1/373H1; PHL 341H1/342/344H1/345H1/347H1/349H1/381H1/383H1/384H1; SOC 303H1/306Y1/309Y1/312Y1/317Y1/320Y1/327Y1/339H1/344Y1/347H1/355Y1/356Y1/363H1/365Y1/366H1/369Y1/370Y1/373H1/374H1/375Y1/381Y1/382Y1/385Y1/386Y1/388H1
5. 1.0 FCE from a 400-level science series (see Note 3 below): HMB 421H1/435H1; BCH 400-series (see Note 1 below); CSB 428H1/429H1/430H1/452H1/458H1/459H1/460H1/461H1/472H1/474H1/482Y1; EEB 459H1/460H1/463H1; LMP 400-series; MGY 400 Series (see Note 2 below); NFS 400-series; PCL 477H1; PSL 400-series
6. 1.0 FCE from a 400-level Science, Bio-social or Social Perspective (see Note 3 below): ANT 428H1/429H1/433H1/448H1/450H1; GGR 415H1/416H1/439H1/450H1; PHL 407H1/440H1/470H1/475H1/482H1/483H1; JFG 475H1; NEW 425Y1/465H1; HMB 420H1/421H1/435H1/438H1/498Y1/499Y1; BCH 400-series (see Note 1 below); CSB 428H1/429H1/430H1/452H1/458H1/459H1/460H1/461H1/472H1/474H1/482Y1; EEB 459H1/460H1/463H1; LMP 400-series; MGY 400-series (see Note 2 below); PHC 400-series; PSL 400-series

## Global Health (Science program)

### Specialist program:

(15.5 to 16 full courses or their equivalent, including at least two 400-series courses)

Enrolment in this program is limited, and will be based on cGPA. Enrolment requires completion of four courses including the first year prerequisite courses.

First Year:

1. BIO 150Y1
2. 1.0 FCE from: CHM 138H1, 139H1; MAT 135Y1/136Y1/137Y1/157Y1; PHY 110Y1/138Y1/140Y1
3. 1.0 FCE from: ANT 100Y1; GGR 100Y1/107Y1/124Y1
4. 0.5 to 1.0 FCE from: PHL 100Y1; PSY 100H1; SOC 101Y1; TRN 150Y1/151Y; VIC 170Y1/171Y1; NEW 150Y; POL 105Y/108Y

Second Year:

1. HMB 203H1, BIO 250Y1/255Y1, STA 220H1
2. 1.0 FCE from Environment or Resource Management: EEB 215H1; ENV 200Y1; FOR201H1; GGR 201H1/203H1/206H1/233Y1; JEG 221Y1
3. 1.0 FCE from Social, Cultural or Political Science: ANT 204Y1; GGR 220Y1/256H1; WGS 261Y1; PHL 273H1/275H1/281Y1; POL 201Y1/208Y1; PSY 220H1; SOC205Y1/210Y1/214Y1/242Y1/246H1/247H1

Second Year and Higher Years:

1. 1.0 FCE from Biological Sciences: ANT 203Y1; BCH 210H1; BIO 252Y1; BOT 252Y1; EEB225H1/263Y1/265Y1; ENV 234Y1/236Y1; HMB 265H1; PSL302Y1; STA221H1
2. HMB303H1
3. 0.5 FCE in Laboratory Sciences: HMB 312H1; BCH 370H1; MGY 376H1; PSL 372H1; CSB 330H1
4. 1.0 FCE from Basic Medical Sciences: LMP 363H1; NFS 284H1; MGY 377H1/388H1; CSB 351Y1
5. 1.0 FCE from Ecology/Evolution: EEB 319H1/321H1/323H1/324H1/328H1/362H1/365H1; CSB 349H1/357H1/375H1
6. 1.0 FCE from Environmental Issues: GGR 303H1/305H1/307H1/312H1/314H1; ENV321H1; FOR302H1/303H1
7. 1.0 FCE from Social Sciences or Humanities: ANT 348Y1/349H1/364Y1, ENV 350H1; GGR 334H1/338H1/393H1; INI 320Y1/32H1/41H1/35H1; JIE 307Y1; WGS 367H1/72H1; PHL 373H1/380H1/381H/382H1/383H1/384H1, POL 301Y1/317Y1/343Y1/346H1/350H1/380H1/380Y1; PSY 333H1/335H1; SOC 309Y1/312Y1/327Y1/381Y1
8. 1.0 FCE from 400-level Science/Env/Eco series: HMB 420H1/438H1; CSB 452H1/458H1; EEB 428H1/440H1/459H1/462H1/465H1/469H1/471H1/495Y1; GGR 403H1/409H1; LMP 402H1/406H1/436H1; MGY 434H1/440H1; MIJ 485H1; NFS 486H1/487H1/490H1; PSL 420H1/421H1/470H1/472H1
9. 1.0 FCE from 400-level Soc/Hum/Proj series: HMB 420H1/438H1/498Y1/499Y1; ANT 427H1/440Y1/448H1/450H1/452H1/455Y1; ENV 423H1/441H1; GGR 415H1/418H1/439H1/450H1/451H1; JFG 475H1; INI 422H1/446H1; NEW 425Y1/465H1; POL 401H1/412H1/413H1/417Y1/418Y1; PHL 415H1/440H1/447Y1/470H1/482H1; TRN 410Y1/411Y1/419Y1/421Y1, UNI 410H1/464H1

## Health and Disease (Science program)

### Specialist program:

(14.5 to 15 full courses or their equivalent, including at least two 400-series courses)

Enrolment in this program is limited, and will be based on cGPA. Enrolment requires completion of four courses including the first year prerequisite courses.

First Year:

1. BIO 150Y1
2. CHM 138H1, 139H1
3. 1.0 FCE from: MAT 135Y1/136Y1/137Y1/157Y1; PHY 110Y1/138Y1/140Y1
4. 0.5 to 1.0 FCE from: ANT 100Y1; GGR 107Y1; GGR124Y1; PHL 100Y1/PHL102Y1; PSY 100H1; SOC 101Y1; VIC 170Y1/171Y1

Second Year:

1. HMB 202H1, 265H1/BIO 260H1; BCH 210H1; BIO 250Y1/255Y1; CHM 247H1

# Life Sciences: Human Biology

- 1.0 FCE from: ANT 203Y1/204Y1; ENV 236Y1; GGR 220Y1/233Y1/246H1/256H1/270H1; WGS 261Y1; PHL 240H1/245H1/237H1/255H1/275H1/281Y1; SOC 205Y1/207Y1/210Y1/212Y1/213Y1/214Y1 /220Y1/242Y1/246H1/247H1/260Y1/263H1

Higher Years:

1. HMB 302H1; CSB 349H1; MGY 377H1, 378H1; PSL 302Y1
2. 0.5 FCE science laboratory from: HMB 312H1; BCH 370H1; MGY 376H1; PSL 372H1; CSB 330H1
3. 0.5 FCE from the sciences: ANA 300Y1/301H1/304Y1; BIO 251Y1/252Y1; CSB 325H1/327H1/328H1/329H1/331H1/332H1/340H1/345H1/346H1/347H1/351Y1/353H1/357H1; BCH 300-series (see Note 1 below); EEB 331H1/340H1/341H1; IMM 334Y1; JZM 357H1/358H1; PSY 397H1; LMP 301H1/363H1; NFS 284H1/386H1; PCL 201H1/302H1/362H1; PSL 303Y1
4. 1.0 FCE from a Bio-Social or Social perspective: ANT 300-series; GGR 314H1/331H1/333H1/334H1/335H1/338H1/393H1; HPS 318H1/319H1/323H1/324H1/326H1/328H1/333H1/350H1; WGS 365H1/366H1/367H1/368H1/372H1/373H1; PHL 341H1/342H1/345H1/347H1/349H1/381H1/383H1/384H1; SOC 303H1/306Y1/309Y1/312Y1/317Y1/320Y1/327Y1/339H1 /344Y1/347H1/355Y1/356Y1/363H1/365Y1/366H1/369Y1/370Y1/373H1/374H1/375Y1/381Y1/382Y1/385Y1/386Y1/388H1
5. 1.0 FCE from a 400-level science series (see Note 3. below): HMB 422H1/432H1/435H1; BCH 400-series (See Note 1 below); CSB 428H1/429H1/430H1/452H1/458H1/460H1/461H1/472H1/482Y1; EEB 460H1/463H1; IMM 429H1/430H1/435H1; JBI 428H1; PSY 497H1; LMP 400-series; MGY 400-series; NFS 400-series; PCL 470Y1/471Y1/473Y1/475Y1/477H1/481H1; PSL 400-series
6. 1.0 FCE from a 400-level Science, Bio-social or Social Perspective (see Note 3. below): ANT 428H1/429H1/433H1/434H1/440Y1/448H1/449H1/450H1; GGR 415H1/416H1/439H1/450H1; PHL 407H1/440H1/470H1/475H1/482H1/483H1; JFG 475H1; NEW 425Y1/465H1; BCH 400-series (See Note 1 below); CSB 428H1/429H1/430H1/452H1/458H1/460H1/461H1/472H1/482Y1; EEB 460H1/463H1; HMB 420H1/422H1/432H1/435H1/438H1/498Y1/499Y1; IMM 429H1/430H1/435H1; JBI 428H1; JZP 428H1; MIJ 485H; LMP 400-series; MGY 400-series; NFS 484H1/486H1/488H1/490H1; PCL 470Y1/471Y1/473Y1/475Y1/481H1; PHC 400 Series; PSL 400-series

## Neuroscience (Science program)

### Specialist program:

(13.5 to 14 full courses or their equivalent, including at least two 400-series courses)

Enrolment in this program is limited, and will be based on cGPA. Enrolment requires completion of four courses including the first year prerequisite courses.

First Year:

1. BIO 150Y1
2. CHM 138H1, 139H1
3. 1.0 FCE from: MAT 135Y1/136Y1/137Y1/157Y1; PHY 110Y1/138Y1
4. PSY 100H1

Second Year:

1. HMB 204H1, HMB 265H1/BIO 260H1, BCH 210H1/CHM 247H1, BIO 250Y1/255Y1; STA 220H1/PSY 201H1
2. 0.5 FCE from: ANT 204Y1/253H1/LIN200H1/PSY 260H1/270H1/280H1

3. PSL 300H1/BIO 252Y1

Higher Years:

1. HMB 300H1, 310H1, 320H1, CSB 349H1/PSL 350H1
2. 2.0 FCE from: CSB 325H1/328H1/330H1/332H1/345H1/346H1/347H1; EEB 322H1; JAL 355H1; JLP 315H1/374H1; PCL 201H1/302H1; PSL 301H1/303Y1/372H1/374H1; PSY 202H1/342H1/371H1/372H1/373H1/375H1/393H1/394H1/396H1/397H1; WGS 372H1
3. 2.0 FCE from 400-level Science Series: HMB 400Y1/420H1; CSB 425H1/428H1/430H1; EEB 459H1/496Y1; JLS 474H1; JLP 471H1; PCL 475Y1; PSL 432H1/440Y1/443H1/444Y1/450H1/452H1/454H1/472H1; PSY 440H1/460H1/470H1/471H1/480H1/490H1/497H1

## Human Behavioural Biology (Science program)

**\*\*This specialist program is being amalgamated with Neuroscience and will no longer be offered. Students admitted prior to September 2005 may complete their program as described below\*\***

### Specialist program:

(15 full courses or their equivalent, including at least two 400-series courses)

Enrolment in this program is limited, and will be based on cGPA. Enrolment requires completion of four courses including the first year prerequisite courses.

First Year:

1. BIO 150Y1
2. CHM 138H1, 139H1
3. MAT 135Y1/136Y1/137Y1/157Y1
4. PSY 100H1

Second Year:

1. HMB 200H1, BCH 210H1/CHM 247H1, BIO 250Y1/ BIO255Y1, STA 220H1/PSY 201H1
2. 1.0 FCE from: ANT 203Y1/204Y1; ENV 222Y1/236Y1; JAL 253H1/254H1; WGS 261Y1; PHL 281Y1
3. 1.5 FCE from: JAL 253H1/254H1; NRS 201H1; PSY 202H1/210H1/220H1/230H1/240H1/260H1/270H1/280H1/290H1; STA 221H1

Higher Years:

1. HMB 300H1
2. 0.5 FCE science laboratory from: HMB 310H1; PSL 372H1; PSY 319H1/369H1/379H1/389H1/399H1
3. 0.5 FCE in Genetics/Evolution from: HMB 265H1; EEB 322H1/323H1/324H1/362H1; PSY 390H1
4. 1.5 FCE in Behavioural Systems from: BIO 252Y1; CSB 332H1/347H1 JZP 326H1; PSL 201Y1/302Y1; PSY 375H1/378H1/392H1/393H1/394H1/396H1
5. 1.5 FCE from a Bio-Social or Social perspective: ANT 300-series; ENV 321Y1; JAL 355Y1/356H1; JLP 315H1/374H1; JPA 305H1; WGS 372H1; PHL 341H1/342H1/351H1/381H1/382H1/383H1; any PSY 300-series course
6. 1.0 FCE from a 400-level science series (see Note 3. below): CSB 472H1/485Y1; EEB 462H1/494Y1/496Y1; HMB 420H1/435H1/438H1; JZP 428H1; LMP 400-series; PCL 475Y1; PSL 400-series; PSY 401H1/402H1/409H1/420H1/490H1
7. 1.0 FCE from a 400-level Science, Bio-social or Social perspective (see Note 3. below): ANT 425H1/427H1/428H1/429H1/433H1/434H1/440Y1/441H1; CSB 485Y1; JLP 471H1; JLS 474H1; PHL 407H1/451H1/475H1/481H1/482H1/483H1; EEB 462H1/494Y1/496Y1;

# Life Sciences: Human Biology

HMB 420HI/435HI/438HI/498YI/499YI; JZP 428HI;  
PSL 420HI/421HI/440YI/441HI/460HI/472HI; PSY  
401HI/402HI/409HI/420HI/490HI

## Notes:

1. Students who have completed BCH210HI with high standing may enrol in 300-series or 400-series lecture courses with permission of the Department of Biochemistry program coordinator.
2. Students who have completed BIO 349HI/CSB 349HI with high standing may be eligible to enrol in other MGY 400-series courses with permission from the instructor.
3. An independent research or reading course may be used towards the 1.0 FCE 400-series course. Students will need the approval of the program committee to be eligible for a research or reading course.

## Human Biology (Science program)

### Major program:

(7.5 to 8 full courses or their equivalent)

Enrolment in this program requires completion of four courses; no minimum GPA required.

### First Year:

1. BIO 150YI, CHM 138HI, 139HI
2. 0.5 to 1.0 FCE from: JMB 170YI; MAT 135YI/136YI/137YI/157YI; PHY 110YI/138YI/140YI; PSY 100HI; VIC 170YI/171YI

### Second Year:

1. HMB 265HI/BIO 260HI, BCH 210HI, BIO 250YI/255YI

### Third Year:

1. 1.0 FCE from: BIO 251YI/252YI; PSL 302YI
2. 1.0 300+level FCE from: BIO; BOT; EEB; CSB; HMB; PSY; ZOO
3. 1.0 300+level FCE from: ANA; BCH; HMB; IMM; LMP; MGY; NFS; NRS; PCL; PSL (see Note 1 below)

NOTE 1: Courses listed in above may require prerequisites; please check course listings.

NOTE 2: EEB202H/214H/215H/216H; CSB200Y will not be considered for program requirements.

**Environment and Health: see Environment, Centre for**

## Human Biology Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all HMB courses are classified as SCIENCE courses, with the following exceptions: HMB303HI, HAJ453HI, and HMB498YI. Please see course descriptions below for information.

### **HMB200HI Introduction to Evolutionary Psychology (formerly NRS201HI) 26L, 13T**

An introductory course in Human Behavioural biology covering topics and concepts from behavioural genetics and evolutionary psychology. Not offered in 2007/08.

Exclusion: NRS201HI

Prerequisite: BIO 150YI, PSY 100HI

### **HMB201HI Introduction to Genes, Genetics, and Biotechnology 26L**

Interdisciplinary course consisting of three parts: the genetic basis, tools and techniques of biotechnology; medical, environmental and agricultural applications; and ethical, legal and

social aspects of biotechnology (including approaches to risk assessment, reduction and acceptance). A prime example used in the third part is the controversy over genetically modified foods.

Prerequisite: BIO 150YI

Co-requisite: BIO 250YI

### **HMB202HI Introduction to Health and Disease 26L, 13P**

An introductory course in Health and Disease using an interdisciplinary approach that integrates developmental human biology with perspectives from the Social Sciences. An exploration of the key concepts and approaches that is necessary for understanding the dynamic nexus of human health and disease.

Prerequisite: BIO 150YI

### **HMB203HI Introduction to Global Health 26L, 13T**

An introductory course covering the theories, operational components and strategies of implementing primary health care in developing countries. Topics include education, control of vector borne diseases, essential drug provision, maternal and child health and nutrition and incorporation of alternative and complementary technologies, community participation and deployment of health service providers.

Prerequisite: BIO 150YI

### **HMB204HI Introduction to Neuroscience 26L**

A survey of brain systems, including evolution and development of the nervous system, brain stem system for defensive and approach responses, limbic and cortical systems for learning, and higher brain functions. Techniques for study of brain systems including pharmacology, gene targeting and human brain imaging are introduced.

Exclusion: PSY290HI/NRS201HI

### **HMB210HI Popular Scientific Misconceptions 10L, 16S**

Students engage in a variety of current, high profile misconceptions in human biology to change and extend incorrect common beliefs; to become familiar with the process of scientific inquiry; and to develop thinking, analytical and communication skills. Popular scientific misconceptions will be sourced from current movies, TV shows, and books.

Exclusion: PSY290HI

Prerequisite: BIO 150YI; PSY 100HI/101YI

Pre- or co-requisite: PSL300HI/ZOO252YI/PSY391HI

### **HMB265HI General and Human Genetics 26L, 13T**

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.

Exclusion: BIO260HI, BIO207H5

Prerequisite: BIO 150YI

Co-requisite: BIO 250YI

### **HMB300HI Human Behavioural Biology 26L, 13T**

Intermediate course for the Specialist program in Neuroscience. Consult web page for more information: <http://hmb.utoronto.ca/hmb300h>.

Prerequisite: HMB200HI/206HI/NRS201HI

### **HMB301HI Biotechnology 26L, 13T**

Intermediate course in biotechnology; topics vary but include the use of vectors, and biochemical pathways in biotechnology.

Prerequisite: HMB201HI

# Life Sciences: Human Biology

## **HMB302HI Vertebrate Histology and Histopathology 26L, 39P**

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.

Prerequisite: BIO250Y1

## **HMB303HI Global Health and Human Rights 39S**

A multidisciplinary emphasis on the economic, historical, social and cultural determinants of health and human rights, and how structural violence prevents progress towards human rights. Case studies reflecting global aspects of health and human rights will form a framework for approaching these issues.

This is a SCIENCE or SOCIAL SCIENCE course.

## **HMB304HI Introduction to Biocommunication Visualization 13L, 26T**

This course covers the analysis and development of visual media for medical or scientific publication. Lectures include: light/form; proportion/scale; scientific visual conventions; media appropriate for target audience and reproduction. Topics may include: physiology, anatomical/biological subjects, patient education/health promotion or archaeological artifacts. Classes consist of lectures with computer lab explorations.

Exclusion: HSC302H5

Prerequisite: BIO250Y1

## **HMB305HI Personalized Modern Science 26L**

Learn about the people behind the last century of scientific discovery. Select scientists, chosen in part for the impact of their discovery on human biology, will be used to illustrate the process of scientific research. Source material will range from interviews available from *Nature* and *Science* to written biographies.

Prerequisite: BIO250Y1; BCH210H1; HMB265H1

## **HMB310HI Laboratory in Neuroscience 26L, 39P (formerly NRS302HI)**

A laboratory course based on current research techniques for students in the Specialist program in Neuroscience and Human Behavioural Biology. Lab topics include brain anatomy and imaging, immunocytochemistry, startle reflex analysis, human neuropsychology, and animal behaviour.

Exclusion: PSY399H1, NRS302H1, HMB314H

Co-requisite: HMB300H1

## **HMB311HI Laboratory in Genes, Genetics, 26L, 39P and Biotechnology**

A laboratory course based on current research techniques for students in the Specialist program in Genes, Genetics, and Biotechnology. Lab topics include basic microbiology techniques, Southern blot, immunocytochemistry, nutrigenomics, and principles of fermentation.

Exclusion: HMB314H

Co-requisite: HMB301H1

## **HMB312HI Laboratory in Health and Disease 26L, 39P**

A laboratory course based on current research techniques for students in the Specialist program in Health and Disease. Lab topics include basic microbiology techniques, Southern blot, immunocytochemistry, nutrigenomics, and histological techniques.

Exclusion: HMB314H

Prerequisite: HMB202H1, HMB302H1

## **HMB314HI Laboratory in Human Biology 13L, 39P**

A laboratory course based on current research techniques for students in the Human Biology Major program. Laboratory topics include basic physiological techniques (blood/urine analysis, glucose tolerance), genetic analysis and investigation of biological processes using current molecular biology techniques. Students are engaged in supervised research projects on their research interests.

Exclusion: HMB310H1/311H1/312H1

Prerequisite: BIO250Y1/BIO255Y1, HMB265H1/BIO260H1

## **HMB320HI Neuroanatomy 26L, 26P (formerly NRS202HI)**

This is a rigorous, introductory course that presents the functional and comparative anatomy of the vertebrate brain. It is designed for students who intend to continue with studies in the Neurosciences and related areas.

Exclusion: NRS202H1

Prerequisite: HMB206H1

## **HMB321HI Topics in Genetics 26L, 13T**

Lectures and tutorial discussions on three or four selected topics in Genetics. Emphasis is on building in-depth understanding of classical and current problems from their historical roots to recent molecular genetic results. Topics vary yearly. Consult web page for more information: <http://hmb.utoronto.ca/hmb321h>.

Prerequisite: BIO260H1/HMB265H1

## **HMB322HI Human Diseases in Our Society 26L, 13T**

Explore the scientific basis, interdisciplinary healthcare practices, and social implications of several diseases common in our society (e.g., STD, skin cancer, diabetes, and periodontal disease). Discuss current issues. Shadow a healthcare professional.

Prerequisite: BIO250Y1, HMB200H1/201H1/202H1/203H1

## **HMB397HI Scientific Communication 2L, 24S**

Delve into topic(s) of human biology of your choice! Read science as it's published. Listen to scientific talks. Be mentored by your own individual professor, a basic or clinical researcher. Assignments guide you to read, write, and speak effectively about science.

Prerequisite: BIO250Y1, HMB200H1/201H1/202H1/203H1

## **HMB400YI Project in Neuroscience TBA (formerly NRS400YI)**

Laboratory research project on a neuroscience topic; supervised by a member of the Faculty of Arts and Science or the Faculty of Medicine. Requires approval from the Human Biology Programs office from which application forms may be obtained.

Exclusion: NRS400Y1

Prerequisite: An approved 300+ series science laboratory course and permission of the Human Biology Programs office.

## **HMB420HI Seminar in Human Behavioural Biology 26S**

Interdisciplinary seminar course that integrates the study of biological sciences with a psychological, sociological, anthropological, and philosophical perspective.

Prerequisite: HMB300H1

## **HMB421HI Seminar in Genes, Genetics, and Biotechnology 26S**

Theme based lecture and seminar course underlining current medical research in relation to the areas of genes, genetics and biotechnology. Topics vary yearly.

Prerequisite: HMB301H1

## **HMB422HI Seminar in Health and Disease 26S**

Lecture and seminar course underlining current medical research related to human disease. Topics vary yearly.

Prerequisite: HMB202H1, 302H1

# Life Sciences: Human Biology

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## **HMB432HI Topics in Histology and Histopathology 26S**

Lecture and seminar course emphasizing current research. Topics may include the digestive system, cardiovascular system, respiratory system, and neoplasia. Topics will vary depending on class interest.

Prerequisite: HMB302HI

## **HMB433HI Topics in Global Health 26S**

Seminar and theme based course based on topics in health and human rights in a global setting (first offered 2008-2009).

Prerequisite: HMB303HI

## **HMB434HI Complementary and Alternative Medicine 26S**

Integrative health care is a phenomenon that is developing in health care systems in North America, China, India, and Vietnam, among others. It involves the coordination of multi-disciplinary and culturally-specific health services in the treatment of illness and disease, and an expanded concept of health, illness, and wellness.

Prerequisite: HMB302HI/303HI or permission from the Human Biology Programs office.

## **HMB435HI Selected Topics in Molecular Cell Biology 26S**

Theme based lecture and seminar course underlining current basic science research in the area of molecular biology and cell biology as related to human disease. Topics vary yearly depending on student interest.

Prerequisite: BIO349HI/PSL350HI

## **HMB443HI Global Hidden Hunger 20L, 6S**

Vitamin and mineral deficiencies, termed 'hidden hunger', affect about half the world's population. We explore the global nature, catastrophic consequences, and causes of these deficiencies. We also discuss formulation and implementation of international, national, and local policies to alleviate 'hidden hunger' especially in infants and young children.

Prerequisite: HMB303HI or NFS382HI

## **HMB444HI Human Biology and Human Destiny: Science, Popular Science, and Science Fiction 26S**

Seminars explore the interactions of biological sciences, social issues, and literature. Through reading of classic "SF" novels and popular writings by prominent twentieth century biologists in their historical, scientific, and thematic contexts, we will examine how biological concepts and their development affected life, society, and the future of humanity.

Prerequisite: HMB300HI/301HI/302HI/303HI/305HI

## **HAI453HI AIDS: A Global Perspective 26S**

Seminars explore the global AIDS crisis, adopting the medical-anthropological perspective of Paul Farmer's "Infections and Inequalities". Varying epidemiological profiles of AIDS are placed in broader social, cultural, and political-economic frameworks. The impact of globalization and structural inequality on local cultures and lifestyles will provide an essential backdrop to the discussions.

Prerequisite: HMB300HI/301HI/302HI/303HI or 0.5 FCE 300-series ANT course

This is a SCIENCE or SOCIAL SCIENCE course.

## **HMB470HI Exercise and Sports Medicine 26S**

This course introduces biomechanics and builds on knowledge of the biomechanics of injury and dysfunction to develop a systematic understanding of risk, injury prevention, and initial management of injuries in sports and physical activities. Some additional topics

include "doping" in sport, travel issues in competitive sport, and ethical issues in clinical sport medicine.

Prerequisite: HMB300HI/301HI/302HI/303HI

## **HMB471HI Performance Enhancement 26S**

This course presents the links between stress and performance. Current research will provide the theoretical and scientific bases for this mind-body link. Various stress management skills will be introduced to maintain focus in the face of distractions such as writing an examination, making a public presentation or being interviewed for a job

Prerequisite: HMB300HI/301HI/302HI/303HI

## **HMB498Y Research Project in Health and Human Rights TBA**

A research project on issues surrounding global health and human rights to be supervised by a member of the Faculty of Arts and Science or the Faculty of Medicine. Requires approval from the Human Biology Programs office from which application forms may be obtained.

Prerequisite: HMB203HI, HMB303HI and permission of the Human Biology Programs office.

This is a SCIENCE or SOCIAL SCIENCE course.

## **HMB499YI Research Project in Human Biology TBA**

A research project supervised by a member of the Faculty of Arts and Science or the Faculty of Medicine. Requires approval from the Human Biology Programs office from which application forms may be obtained.

Prerequisite: An approved 300+ series science laboratory course and permission of the Human Biology Programs office.

# Life Sciences: Immunology

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## Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

### Faculty

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#### Professors Emeriti

J.B. Hay, M Sc, Ph D  
R.H. Painter, B Sc, Ph D

#### Professor and Chair of the Department

M.J.H. Ratcliffe, B Sc, Ph D

#### University Professor

T.W. Mak, Ph D, D Sc, FRSC

#### Professors

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J. Danska, AB, Ph D  
H.M. Dosch, MD  
E. Fish, M Sc Ph D  
R.M. Gorczynski, Ph D, MD  
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C. Paige, B Sc, Ph D  
J. Penninger, MD (Adjunct)  
J.C. Roder, BA, Ph D  
C. Roifman, MD  
M.J. Shulman, BA, Ph D  
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K. Siminovitch, MD, FRCP, ABIM  
T.H. Watts, B Sc, Ph D  
D. Williams, M Sc, Ph D  
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L. Zhang, MD, Ph D  
J.C. Zúñiga-Pflücker, B Sc, Ph D

#### Associate Professors

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A. Cohen, M Sc, Ph D  
R. Hakem, M Sc, Ph D  
J. Jongstra, M Sc, Ph D  
D.J. Kelvin, M Sc, Ph D  
S. Lewis, BS, Ph D  
K. MacDonald, MD  
P. Poussier, MD  
R. Rottapel, MD

L. Rubin, MD, LMCC, FRCP (C)  
A. Schuh, MD  
F.Tsui, M Sc, Ph D  
P.Vadas, B Sc, Ph D, MD  
J. Wither, B Sc, MD, Ph D

#### Assistant Professors

M.K. Anderson, B Sc, Ph D  
J.W.D. Booth, B Sc, Ph D  
J.R. Carlyle, B Sc, Ph D  
P.J. Doherty, B Sc, Ph D  
J.L. Gommerman, B Sc, Ph D  
J. Jongstra-Bilen, M Sc, DEA, Ph D  
C. Laskin, B Sc, MD  
C. Lau, M Sc, Ph D (Adjunct)  
A. Martin, M Sc, Ph D  
M. Ostrowski, MD, FRCP  
D.J. Philpott, B Sc, Ph D  
R.S. Yeung, B Sc MD, Ph D, FRCP (C)

#### Lecturer

L. Clemenza, B Sc, Ph D  
H. Tsui, B Sc, Ph D

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 man. Traditionally, the discipline has focussed 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 a specialist program in Immunology. The emphasis of this 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. 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 program is restricted, please consult specific requirements outlined in the program description section.

Undergraduate Coordinator:  
Dr.A. Martin

Enquiries:  
Department of Immunology, Room 5271, Medical Sciences  
Building (416-978-8360)

More information is available on our website:  
[www.immunology.utoronto.ca](http://www.immunology.utoronto.ca)

## Immunology Programs

### Immunology (Science program)

Sponsored by the Department of Immunology, Faculty of  
Medicine, and Trinity College

The Immunology Specialist Program is a Type 3 program.  
Enrolment is limited and selection is based on performance  
in First year required courses, only students with a CGPA of  
equal to or over 3.5 will be considered for acceptance into the  
program. Students apply via the Faculty's Subject POSt web site.

#### Specialist program

(14 full courses or their equivalent, including at least three 400-  
series courses)

First Year:

BIO 150Y1; CHM 138H1, 139H1; MAT 135Y1/137Y1; PHY  
110Y1/138Y1/140Y1 (PHY 138Y1 recommended)

Second Year:

BCH 242Y1; BIO 250Y1, BIO260H1/HMB265H1; CHM 220H1,  
247H1

Third Year:

BCH 371H1; IMM 335Y1; MGY 311Y1, 377H1, 378H1

Fourth Year:

1. IMM 429H1, 430H1, 435H1; JBI 428H1
2. IMM 450Y1 or one full course equivalent at the 400-series  
level in ANA, BCH, IMM, LMP, MGY, or ZOO

## Immunology Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all IMM courses are  
classified as SCIENCE courses (see page 27).

#### IMM299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research  
project. See page 47 for details.

#### IMM334Y1 Introductory Immunology 52L

The basic principles of immunology; tissues and cells of  
the immune system; cell biology of the humoral and cell-  
mediated immune responses; immunogenetics; immunoglobulin  
structure, function and biosynthesis; immunological techniques;  
immunopathology; infection and immunity; transplantation,  
autoimmunity and tumour immunology.  
Prerequisite: BIO250Y1

#### IMM335Y1 Introductory Immunology 52L, 26T

The fundamental principles of immunology; tissues and cells  
of the immune system; humoral and cell-mediated immune  
responses; immunogenetics; immunoglobulin structure, function  
and biosynthesis; immunopathology; infection and immunity;  
transplantation, autoimmunity and tumour immunology.  
Intended for students specializing in immunology and related

programs, and requiring a more intensive background in  
biochemistry and molecular biology than IMM334Y1.

Prerequisite: BCH 242Y1; BIO 250Y1, 260H1/HMB 265H1

Co-requisite: MGY311Y1

#### JBI428H1 Molecular Immunology 26L

Molecular mechanisms involved in innate and adaptive immunity  
including the structure and function of immunoglobulins, the  
complement system, antigen processing and presentation,  
and membrane signalling events. Emphasis is on experimental  
approaches and quantitative aspects. (Given by the Departments  
of Biochemistry and Immunology)

Prerequisite: BCH210H1/242Y1, IMM334Y1/335Y1

Recommended preparation: BIO349H1/MGY311Y1/PSL350H1

#### IMM429H1 Developmental Immunology 26L

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, DNA  
rearrangement.

Prerequisite: IMM334Y1/335Y1

#### IMM430H1 The Immune Response 26L

A study of the cells involved in the immune response, the  
nature of cellular and molecular interactions that govern  
immunity and self-tolerance, the nature of the effector cells in  
immunity and genetic control of immune responses.

Prerequisite: IMM334Y1/335Y1

#### IMM435H1 Practical Immunology 72P

Application of basic principles acquired from IMM334Y1/335Y1;  
immunological procedures used in research and diagnostic  
laboratories; rudiments of etiology, pathogenesis, and  
laboratory diagnosis of diseases of immune system; principles  
of immunological diagnostic procedures in some infectious  
diseases; instruction through lectures, practical exercises, video  
tapes, student presentations.

Prerequisite: BCH210H1/242Y1, IMM334Y1/335Y1

#### IMM450Y1 Research Project in Immunology 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 students.

#### MIJ485H1 Vaccines and Immunity 39L

Analysis of infectious disease vaccines, and pathogens' strategies  
to evade specific immune response, with an emphasis on  
molecular and immunological aspects. Special topics include:  
molecular basis of pathogenicity and immune-evasion strategies;  
vaccination strategies; adverse effects of vaccines (given jointly  
by the Departments of Medical Genetics & Microbiology and  
Immunology).

Prerequisite: IMM334Y1/IMM335Y1, MGY377H1, MGY378H1

Exclusion: MBY480H1, MGY485H1



# Life Sciences: Laboratory Medicine and Pathobiology

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## Given by Members of the Faculty of Medicine

### Faculty

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#### Professor and Chair of the Department

A.I. Gotlieb, MD, CM

#### Professors

K. Adeli, Ph D  
S.L. Asa, MD, Ph D  
C. Bergeron MD  
J.M. Boggs, Ph D  
J. Brunton, MD  
J. Butany, Ph D  
D.E.C. Cole, MD, Ph D  
E. Cutz, MD  
M. Cybulsky, MD  
E.P. Diamandis, MD, Ph D  
M.D. Grynepas, Ph D  
J.B. Hay, Ph D  
A. Hinek, Ph D  
D.M. Irwin, Ph D  
M.G. Johnston, Ph D  
S. Jothy, MD, Ph D  
S. Kamel-Reid, Ph D  
R. Kandel, MD  
F.W. Keeley, Ph D  
B.L. Langille, Ph D  
G.A. Levy, MD  
C.A. Lingwood, Ph D  
D. Low, MD  
D. Mahuran, Ph D  
P.A. Marsden, MD  
T. Mazzuli, MD  
A. McGeer, MD  
S. Nag, MD  
M. Opas, Ph D  
K.P.H. Pritzker, MD  
J. Prud'homme, MD  
D.S.R. Sarma, Ph D  
A. Seth, Ph D  
P. Shek, Ph D  
A.E.M. Simor, MD  
J. Squire, Ph D  
D.M. Templeton, Ph D, MD  
P. Thorne, MD, Ph D  
M.S. Tsao, MD  
G.A. Wilson, MD  
L. Zhang, Ph D

#### Associate Professors

B. Bapat, Ph D  
M. Bendeck, Ph D  
J.C.S. de Azavedo, Ph D  
G. Denomme, Ph D  
H.P. Elsholtz, Ph D  
P. Hamel, Ph D

G. Hannigan, PhD  
M. McGavin, Ph D  
J. McLaurin, PhD  
J.O. Minta, Ph D  
M. Ohh, Ph D  
S. Richardson, MD  
M. Rozakis, Ph D  
B. Strauss, MD, Ph D  
R. Vieth, Ph D  
B. Yang, Ph D  
H. Yeager, Ph D  
M. Zielenska, Ph D

#### Assistant Professors

I. Aubert, Ph D  
S. Girardin, Ph D  
D. Hwang, Ph D, MD  
C. McKerlie, DVM, DV Sc  
J. Mogridge, Ph D  
R. Tellier, Ph D  
W. Vogel, Ph D

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.

#### Undergraduate Secretary:

Dr. D.M. Templeton, Medical Sciences Building, Rm. 6209 (416-946-7459)

#### Web site:

[www.lmp.facmed.utoronto.ca](http://www.lmp.facmed.utoronto.ca)

#### Course Coordinators:

LMP300Y1: Dr. D.M. Templeton (416-978-3972)

LMP301H1: Dr. L. Fu (416-480-4299)

Dr. P. Yip (416-340-4800)

LMP363H1: Dr. D.S.R. Sarma (416-978-5010)

LMP365H1: Dr. M. Ohh (416-946-7922)

LMP402H1: Dr. M. McGavin (416-480-5831)

LMP403H1: Dr. L. Zhang (416-340-4915)/

Dr. P. Shek (416-635-2127)

LMP404H1: Dr. W. Vogel (416-946-8132)

# Life Sciences: Laboratory Medicine and Pathobiology

LMP405YI: Dr. H. Yeger (416-813-5958)  
Dr. G. Hannigan (416-813-8149)  
LMP406HI: Dr. M. Bendeck (416-864-5652)  
LMP410HI: Dr. J. McLaurin (416-978-1035)  
LMP436HI: Dr. S. Girardin (416-978-7507)

## Pathobiology Programs

### Pathobiology (Science program)

Enrolment in this program is limited and selection is based on performance in First Year required courses. Students enrol at the end of their first year of studies. Apply via the Arts & Science web site from early April to mid-May. At later times, contact the undergraduate secretary.

### Specialist program:

(13.5 full courses or their equivalent, including at least two 400-series courses)

First Year:

BIO 150YI; CHM (138HI, 139HI)/151YI; MAT 135YI/137YI;  
PHY 138YI/140YI

Second Year:

BCH 210HI; BIO 250YI, 260HI/HMB265HI; CHM 220HI,  
247HI; PSL 302YI

Third Year:

BCH 370HI; IMM 334YI/MGY (377HI, 378HI); BIO 349HI;  
LMP 300YI, 365HI

Fourth Year:

At least 4 of LMP 402HI, 403HI, 404HI, 405YI, 406HI, 410HI,  
412HI, 436HI

## Laboratory Medicine and Pathobiology Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all LMP courses are classified as SCIENCE courses (see page 27).

### LMP299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details.

### LMP300YI Introduction to Pathobiology 52L, 6P

Concepts in pathogenesis; cell injury and death; tissue structure, wound healing; repair and fibrosis. Molecular basis of major organ system pathology. The laboratory examines gross anatomical specimens and introduces histopathology. Enrolment is limited to students specializing in pathobiology who have completed the first and second year requirements of the program.

Exclusion: LMP301HI

### LMP301HI Introduction to the Biochemistry of Human Disease 26L

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.

Exclusion: LMP300YI

Prerequisite: BCH210HI/242YI

Co-requisite: PSL302YI/JBO302YI

### LMP363HI Principles of Pathobiology 26L

Pathological changes brought on by foreign compounds; applications of pathology to the detection of toxic carcinogenic actions.

Prerequisite: BIO250YI, CHM247HI

### LMP365HI Neoplasia 20L, 6P

A general introduction to the cellular and molecular aspects of cancer and its etiology. The laboratory component presents the range of benign and malignant tumor types at the gross and histological levels. Pathophysiology of cancer; invasion and metastases, role of the immune system.

Co-requisite: LMP300YI or permission of department

### LMP402HI Inflammation and Infection 26L

Cellular and molecular components of the inflammatory response. Activation of the inflammatory response by viral and microbial pathogens. Tissue pathology resulting from the inflammatory response. Evolution of pathogens to avoid and exploit the response.

Prerequisite: IMM334YI/335YI/MGY(377HI, 378HI)

### LMP403HI Immunopathology 26L

The immune system in disease. Responses of the immune system to host invasion, injurious stimuli, and transplantation. Immunopathology of organ-specific diseases including pancreas, gut, liver, heart, kidney, and blood. Intended for students specializing in pathobiology or related programs.

Prerequisite: IMM334YI/335YI

### LMP404HI Bone and Skeletal Disorders 26L

Molecular and cellular architecture of connective tissue in health and in diseases, such as osteoporosis and arthritis. Cellular and endocrine signals necessary for formation and maintenance of the skeleton. Biomechanics and tissue engineering of bone and cartilage. Selected other connective tissue diseases, their genetic variability, and up-to-date treatment strategies.

### LMP405YI Project in Laboratory Medicine and Pathobiology 156P

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 description of the Department (above). 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. Prerequisite: BCH210HI, LMP300YI/363HI/365HI and permission of department

### LMP406HI Pathobiology of the Cardiovascular System 26L

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: PSL302YI

### LMP410HI Pathobiology of Neurodegenerative Disease 26L

Molecular basis of neurodegenerative diseases of the central and peripheral nervous systems. Relevant neuroanatomy and molecular biology of the CNS. Current research topics in neurodegenerative diseases.

Prerequisite: BIO250YI/PSL302YI

## Life Sciences: Laboratory Medicine and Pathobiology

### **LMP412HI Pathobiology of the Lymphatic System 26L**

The lymphatic circulation plays an important role in the maintenance of tissue fluid balance, cancer metastases, and delivery of antigens to lymph nodes where immune responses are generated. This course examines the role of lymphatic vessel in disease and potential new molecular therapies to treat lymphatic pathology.

Prerequisite: PSL302Y1

### **LMP436HI Microbial Pathogenesis 39L**

Molecular mechanism involved in pathogenesis of infectious disease. Topics include recurrent themes in the establishment of infectious disease, such as adherence and spread of pathogenic bacteria as well as evasion of host defences. Emphasis is placed on genetic characterization and expression of virulence determinants and on interactions between bacterial pathogens and their hosts.

Prerequisite: BCH210HI, IMM334Y1/MGY377HI

# Life Sciences: Molecular Genetics and Microbiology

## **Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine**

### **Faculty**

#### **Professor and Chair of the Department of Medical Genetics & Microbiology**

H. D. Lipshitz, Ph D

#### **Professors**

B. J. Andrews, Ph D  
I. Andrulis, Ph D  
B.J. Blencowe, Ph D  
C. Boone, Ph D  
G. L. Boulianne, Ph D  
R.A. Collins, Ph D  
A. Edwards, Ph D  
L. D. Frappier, Ph D  
B. E. Funnell, Ph D  
J.F. Greenblatt, Ph D  
C.C. Hui, Ph D  
T. Hughes, Ph D  
C.J. Ingles, Ph D  
H. M. Krause, Ph D  
A. Nagy, Ph D  
P.N. Ray, Ph D  
J. M. Rommens, Ph D  
J.M. Segall, Ph D  
M. D. Tyers, Ph D  
J. Wrana, Ph D

#### **Associate Professors**

A.L. Bognar, Ph D  
M. Brown, M Sc, Ph D  
A.W. Cochrane, Ph D  
S. P. Cordes, Ph D  
A. R. Davidson, Ph D  
S. Egan, Ph D  
J. Ellis, Ph D  
A. Emili, Ph D  
S. D. Gray-Owen, Ph D  
C.E. Pearson, Ph D  
S. M. Lewis, Ph D  
J. Liu, Ph D  
S. Joshi-Sukhwal, D Sc, Ph D  
F. Sicheri, Ph D  
A. M. Spence, Ph D

#### **Assistant Professors**

J. Brill, Ph D  
J. Brumell, Ph D  
D. Durocher, Ph D  
B. D. Lavoie, Ph D  
P.J. Roy, Ph D  
C.S. Tailor, Ph D  
E. R. M. Tillier, Ph D  
A. Wilde, Ph D

Molecular biology has revolutionized the fields of genetics and microbiology. The Department of Medical Genetics and Microbiology offers a combined Specialist program in Molecular Genetics and Microbiology, which emphasizes 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. 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 program is a research-intensive program and is designed to provide a strong background in science that is applicable to a variety of careers. Career opportunities for graduates include employment in research institutes, universities and other educational institutions, and industry. The program provides an excellent preparation for post-graduate research and professional programs.

The Molecular Genetics and Microbiology program consists of two streams, called Genetics and Microbiology. Students enter the program at the start of their second year, and choose a stream by the start of the third year. Each stream provides focused training, but there is considerable overlap between the programs, reflective of both the cross-disciplinary requirements of these two rapidly evolving disciplines and the impact of each on areas spanning modern biomedical science.

Undergraduate Coordinator: Dr. B. Funnell, Medical Sciences Building (416-978-1665; email: [mgy.info@utoronto.ca](mailto:mgy.info@utoronto.ca))

Undergraduate Office/General Inquiries: Medical Sciences Building Rm 4396 (416-978-8359; email: [undergrad.medgen@utoronto.ca](mailto:undergrad.medgen@utoronto.ca))

More information is available on our website: <http://www.utoronto.ca/medicalgenetics/>

# Life Sciences: Molecular Genetics and Microbiology

## Molecular Genetics and Microbiology Program

### Molecular Genetics and Microbiology (Science program)

Enrolment in this program is limited and selection is based on performance in First year required courses. Apply at the end of the First year via the Faculty's Subject POSt web site. At later times, contact the Undergraduate Coordinator.

#### Specialist program:

(14 full courses or their equivalent)

First Year:

BIO150Y1; (CHM138HI, CHM139HI)/CHM151Y1; MAT135Y1/  
MAT137Y1; PHY110Y1/PHY138Y1/PHY140Y1 (PHY138Y1  
recommended)

Second Year:

BCH242Y1; BIO250Y1, BIO260HI; CHM220HI, CHM247HI

Third Year:

Genetics Stream:

1. BCH340HI, BCH371HI; MGY311Y1, MGY312HI
2. At least 0.5 full-course equivalents must be taken from  
BCH335HI, CHM347HI, MGY377HI, MGY378HI

Microbiology Stream

1. IMM335Y1; MGY311Y1, MGY376HI, MGY377HI,  
MGY378HI

Fourth Year:

Genetics Stream:

1. MGY420HI, MGY432HI  
plus 2.5 credits from Genetics Lists 1 and 2, distributed as  
follows:
2. At least 1.5 full-course equivalents must be taken from list  
1:  
CSB460HI, MGY425HI, MGY428HI, MGY451HI,  
MGY452HI, MGY470HI
3. Up to 1.0 full-course equivalent may be taken from list 2:  
BCH422HI, 440HI, 441HI; CSB328HI, 461HI, 472HI;  
HPS333HI; MGY434HI, 440HI, 445HI, 480Y1

Microbiology Stream:

1. MGY432HI  
plus 2.5 credits from Microbiology Lists 1 and 2, distributed  
as follows:
2. At least 1.5 full-course equivalents must be taken from list  
1:  
LMP402HI, 436HI; MGY420HI, 428HI, 434HI, 440HI,  
445HI; MJJ485HI
3. Up to 1.0 full-course equivalent may be taken from list 2:  
BCH304HI, 335HI, 340HI, 422HI, 426HI, 435HI, 441HI;  
CSB357HI, 452HI, 460HI, 457HI; IMM430HI; JBI428HI;  
LMP403HI; MGY425HI, 451HI, 452HI, 470HI, 480Y1

## Molecular Genetics and Microbiology Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all MGY courses are classified as SCIENCE courses (see page 27).

### MGY299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details.

### MGY311Y1 Molecular Biology 78L

DNA replication, DNA repair and mutation, recombination, transcription, RNA modification and processing, the genetic code and tRNA, translation, regulation of gene expression, development and differentiation, molecular evolution.  
Exclusion: CSB349HI, JBC372H5(UTM), MGB311Y1, PSL350HI  
Prerequisite: BIO250Y1, BCH242Y1

### MGY312HI Principles of Genetic Analysis 78P

Laboratory experiments in genetics of selected organisms. Topics studied include Mendelian genetics, linkage and recombination, complementation, analysis of chromosome rearrangements, mutant selection and analysis in plants and bacteria, and genetic crosses with plants, bacteria and bacteriophages.

Exclusion: MGB312HI

Prerequisite: BIO250Y1, BIO260HI

Co-requisite: MGY311Y1

### MGY376HI Microbiology Laboratory 78P

Fundamental laboratory techniques in bacteriology and virology. Valuable not only for students specializing in Microbiology but also for those in related disciplines which make use of bacteria and viruses as research tools. Open to students in related programs.

Exclusion: MGY376HI

Prerequisite: BIO250Y1, BIO 260HI/HMB 265HI

Co-requisite: MGY377HI, MGY378HI

### MGY377HI Microbiology I: Bacteria 39L

Detailed study of bacteria in terms of structure, classification and replication. Basis for advanced study in various aspects of bacteriology including bacterial physiology, bacterial genetics, molecular pathogenesis of disease and environmental studies.  
Exclusion: BIO370Y5 (UTM), MGY375Y1, MGY377HI  
Prerequisite: BCH210HI/BCH242Y1; BIO250Y1

### MGY378HI Microbiology II: Viruses 39L

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 immunology. A concurrent course in immunology (IMM 334Y1/335Y1) is recommended.

Exclusion: BIO351Y1, CSB351Y1, MGY375Y1, MGY378HI

Prerequisite: BCH210HI/BCH242Y1; BIO250Y1; BIO 260HI/  
HMB 265HI

Co-requisite: CSB349HI/MGY311Y1

Recommended preparation: MGY377HI

### MGY420HI Regulation of Gene Expression 26L

This course describes regulatory mechanisms controlling gene expression in prokaryotes and eukaryotes. The lectures are designed to promote discussion of various experimental approaches. Topics include: assembly of a transcription complex; initiation of transcription; role of sigma factors and transcription factors; role of regulators of transcription; regulation of SV40 transcription; lambda antitermination; antitermination in HIV-1.  
Exclusion: BIO477H5 (UTM), MGB420HI  
Prerequisite: BCH242Y1, BCH340HI, MGY311Y1

### MGY425HI Signal Transduction and Cell Cycle Regulation 26L

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

# Life Sciences: Molecular Genetics and Microbiology

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recurrent role of protein phosphorylation and protein-protein interactions in cell regulation.

Exclusion: MGB425H1

Prerequisite: BCH242Y1, MGY311Y1

## **MGY428H1 Functional Genomics 26L**

A broad ranging course that covers many aspects of 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 microbes, invertebrates and vertebrates. The primary and review literature will be the basis of all lectures.

Exclusion: MBY428H1

Prerequisites: BCH210H1/BCH242Y1; BIO260H1/HMB265H1; MGY311Y1/CSB349H1

## **MGY432H1 Laboratory in Molecular Genetics and Microbiology 78P**

Laboratory experiments demonstrating basic and advanced molecular biological methods applied to molecular genetics and microbiology.

Exclusion: CSB330H1, MGB430H1, MBY450H1

Prerequisite: MGY312H1/MGY376H1

## **MGY434H1 Bacterial Signalling and Physiological Regulation 39L**

How bacteria sense their environment and signal to regulatory systems when to adapt to environmental stimuli. Topics discussed include the bacterial cell cycle, carbon/energy metabolism, catabolite repression, bacterial development, sporulation, stress responses, regulatory two-component systems and quorum sensing.

Exclusion: MBY434H1

Prerequisite: BCH210H1/BCH242Y1, MGY377H1, CSB349H1/ MGY311Y1

## **MGY440H1 Molecular Virology 39L**

Analysis of virus/host interactions at the molecular level.

Course material is based on recent research publications.

Exclusion: MBY440H1

Prerequisite: BCH210H1/BCH242Y1; CSB349H1/ MGY311Y1; MGY378H1. (Note: BIO351Y1/CSB351Y is not an acceptable equivalent to MGY378H1)

Recommended preparation: IMM334Y1/IMM335Y1

## **MGY445H1 Genetic Engineering for Prevention and Treatment of Disease 39L**

Current approaches to gene therapy including design of virus-based vectors for delivery and expression of effector genes. Emphasis on the use of retrovirus-based strategies for prevention and treatment of HIV infection.

Exclusion: MBY445H1

Prerequisite: MGY378H1/ MGY311Y1

## **MGY451H1 Genetic Analysis of Development: Yeast and Worms 26L**

Basic and advanced principles of genetic analysis applied to the study of two of the best-understood eukaryotic model organisms: the yeast *Saccharomyces cerevisiae*, and the nematode worm *Caenorhabditis elegans*. We emphasize the use of genetic approaches to address problems in cell biology and development, such as the regulation of cell fate. Much of the knowledge gained from these simple organisms has proven broadly applicable, and the same principles of developmental genetic analysis underlie efforts to understand the development of more complex organisms.

Exclusion: MGB451H1

Prerequisite: BIO260H1, MGY311Y1/CSB349H1

## **MGY452H1 Genetic Analysis of Development: Flies and Mice 26L**

This is a companion course to MGY451H1. Advanced genetic principles and approaches, used in the study of fly and mouse development, are introduced. Emphasis is placed on developmental processes that are conserved among these major model organisms.

Exclusion: MGB452H1

Prerequisite: BIO260H1, MGY311Y1/CSB349H1

Recommended preparation: MGY451H1 or equivalent

## **MGY470H1 Human and Molecular Genetics 26L**

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.

Exclusion: MGB470H1

Prerequisite: MGY311Y1

## **MGY480Y1 Special Project TBA**

An opportunity for specialized individual research in molecular genetics and microbiology by arrangement with the course coordinator.

Exclusion: MGB480Y1, MBY422Y1

Prerequisite: BCH371H1/MGY312H1/MGY376H1, MGY311Y1

## **MIJ485H1 Vaccines and Immunity 39L (formerly MGY485H1)**

Analysis of infectious disease vaccines, and pathogens' strategies to evade specific immune response, with an emphasis on molecular and immunological aspects. Special topics include: molecular basis of pathogenicity and immune-evasion strategies; vaccination strategies; adverse effects of vaccines (given jointly by the Departments of Medical Genetics & Microbiology and Immunology).

Exclusion: MBY480H1, MGY485H1

Prerequisite: IMM334Y1/IMM335Y1, MGY377H1, MGY378H1

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Note: MGY460H1 (Plant Molecular Genetics) is now given as CSB460H1. Consult the Department of Cell and Systems Biology listing starting on page 259.

**The Specialist program in Neuroscience is now administered by the Human Biology Program. See the Life Sciences: Human Biology entry on page 273 for details.**

# Life Sciences: Nutritional Sciences

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## Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

### Faculty

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#### Professors Emeriti

G.H. Beaton, Ph D  
W.R. Bruce, MD, Ph D  
M. Krondl, Ph D  
A.V. Rao, M Sc, Ph D  
L.U. Thompson, M Sc, Ph D

#### E.W. McHenry Professor and Chair

M.C. Archer, MA, Ph D, D Sc

#### Professors

G.H. Anderson, M Sc, Ph D  
C.E. Greenwood, M Sc, Ph D  
D.J.A. Jenkins, MA, DM, D Phil, D Sc(Oxon)  
V. Tarasuk, Ph D  
V. Vuksan, M Sc, D Sc  
T.M. S. Wolever, MA, BM, BCH, M Sc, Ph D

#### Assistant Professors

R.P. Bazinet, Ph D  
A. El-Sohehy, Ph D  
A.J. Hanley, Ph D  
D. Ma, Ph D  
W. Ward, M Sc, Ph D

#### Lecturer

A. Fox, M.H.Sc., Ph.D, RD  
S. Parker, Ph D

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 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 and Specialist Programs provide 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 ([www.dietitians.ca](http://www.dietitians.ca)).

Students interested in applying to the M.H.Sc. Comm. Nutr. Program, through the Graduate Department of Community Health, are advised to contact the program director during their second year of undergraduate studies.

Undergraduate Coordinator:  
Professor A. El-Sohehy, FitzGerald Building

Enquiries:  
FitzGerald Building, 150 College Street, Room 316 (416-978-2747)

## Nutritional Sciences Program

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### Nutritional Sciences (Science program)

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**\*\* The specialist program will no longer be offered. Students admitted to the program prior to September 2004 may complete their program as described below\*\***

#### Specialist program:

(12.0 full courses or their equivalent, including at least three 400-series courses)

##### First Year:

BIO 150Y1; CHM (138H1, 139H1)/151Y1; MAT 135Y1/137Y1;  
PHY 110Y1/138Y1/140Y1 (PHY 138Y1 recommended)

##### Second Year:

BCH 210H1; BIO 250Y1; CHM (220H1, 247H1/249H1); NFS 284H1; STA (220H1, 221H1/JBS 229H1)

##### Third Year:

BIO 349H1/JLM 349H1; NFS 382H1; 386H1; PSL 302Y1

##### Fourth Year:

1. NFS 484H1
2. Two of NFS 486H1, 487H1, 488H1, 490H1, 494Y1

#### Major program:

Enrolment in the Major Program can begin at the end of first year, and admission is based on maintaining an overall GPA of at least 2.7 in the required courses.

##### First Year:

BIO 150Y1; CHM (138H1, 139H1)/151Y1

##### Second Year:

NFS 284H1; BCH210H1; STA (220H1, 221H1/JBS 229H1)

##### Third Year:

NFS 382H1; NFS 386H1; PSL 302Y1; BIO 349H1/PSL350H1

##### Fourth Year:

Any three of: NFS 484H1, NFS 486H1, NFS 487H1, NFS 488H1, NFS 490H1, NFS 494Y1

## Nutritional Sciences Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all NFS courses are classified as SCIENCE courses (see page 27).

#### **NFS284H1 Basic Human Nutrition 39L, 13T**

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.

Recommended preparation: BIO150Y1; CHM (138H1, 139H1)/151Y1; MAT135Y1/137Y1; PHY110Y1/138Y1/140Y1 (PHY 138Y1 is recommended)

#### **NFS299Y1 Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.



## Life Sciences: Nutritional Sciences

### **NFS382HI Vitamin and Mineral Metabolism Throughout the Life Cycle 39L, 13T**

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: BIO150Y1; CHM (138HI, 139HI)/151Y1; NFS284HI

### **NFS386HI Food Chemistry 39L**

Structure, composition and chemical and biochemical reactions in foods during postharvest/postmortem, processing, storage and utilisation. Implications for organoleptic properties, nutritional value, toxicity and human health.

Prerequisite: CHM 138HI

Recommended preparation: NFS284HI

### **NFS484HI Advanced Nutrition 26L, 14T**

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: (BCH210HI, BIO349HI/PSL350HI, NFS284HI, PSL302Y1, STA(220HI, 221HI)/JBS229HI)

### **NFS486HI Nutrition and Human Disease 26L, 13T**

Role of dietary fat in normal development and in human diseases including cancer, diabetes and cardiovascular disease. Current issues relating to their prevention or treatment with diet will be discussed, illustrated with reference to general pathophysiological and biochemical principles and current literature.

Prerequisite: BCH210HI, BIO349HI/PSL350HI, NFS284HI, PSL302Y1, STA(220HI, 221HI)/JBS229HI)

### **NFS487HI Functional Foods and Nutrigenomics 26L, 14T**

Scientific principles and experimental approaches in the development and regulation of functional foods and nutraceuticals. 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.

Prerequisites: NFS 284HI, BIO349HI/PSL350HI

### **NFS488HI Nutritional Toxicology 26L, 13T**

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: BCH210HI, NFS284HI

### **NFS490HI International and Community Nutrition 26L, 13T**

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: NFS284HI

Recommended preparation: GGR107Y1/POL103Y1/SOC101Y1

### **NFS494YI Research Projects in Nutritional Sciences 156P**

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 NFS 494YI 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 and must consult with the course instructor before the beginning of the term.

Prerequisite: Permission of Department and Project Supervisor

# Life Sciences: Pharmaceutical Chemistry

## Collaborative Program of the Faculty of Arts & Science and the Leslie Dan Faculty of Pharmacy

Pharmaceutical Chemistry combines knowledge of the biological, medical, and physical sciences in the study of drug therapy. The emphasis is on the chemical nature of the reactions and interactions involved in drug therapy. The students will receive a solid background in the facets of chemistry the most relevant to drugs: physical, organic, and analytical chemistry. They will also learn the fundamental aspects of the synthesis, manufacture, use, and mode of action of drugs.

Undergraduate Office – General Enquiries:  
L. Chung, (416-978-2162), l.chung@utoronto.ca

Program Director:  
Dr. R. Macgregor, (416-978-7332) rob.macgregor@utoronto.ca

## Pharmaceutical Chemistry Program

### Pharmaceutical Chemistry (Science program)

Enrolment in this program is limited to students with a 2.7 CGPA in the required courses described below. Visit the Pharmaceutical Chemistry Program web site for updated information about requirements, course offerings, and events: <http://www.utoronto.ca/pharmacy/pharmchem>.

### Specialist program:

(15.5 courses or their equivalent, including at least one 400-series course)

NOTE: Some of the courses listed below may have prerequisites.

#### First Year:

BIO 150Y1; CHM (138H1,139H1)/151Y1; MAT 135Y1/137Y1; PHY 138Y1/140Y1

#### Second Year:

BCH 210H1; BIO 250Y1; (CHM 220H1,221H1)/225Y1; CHM 247H1/249H1

#### Third Year:

CHM 217H1; PCL 201H1; PHC 300Y1; PHC 320H1; PHC 330Y1; PHC 340Y1

#### Fourth Year:

1. CHM 317H1; PHC 489Y1

2. Two full course equivalents from:

CHM 346H1; CHM 347H1; CHM 379H1; CHM 410H1; CHM 427H1; CHM 440H1; PCL362H1; PHC401H1; PHC 430H1; PHC 431H1; PHC 450H1; PHC 451H1; PHC452H1; PHC 460H1; PHC 461H1; PHC 470H1

## Pharmaceutical Chemistry Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all PHC courses are classified as SCIENCE courses except for PHC470H1, which is a SOCIAL SCIENCE course.

### PHC300Y1 Molecular Pharmacology 78L, 26T

The molecular basis for the action of drugs is presented based upon the physicochemical nature of the drug and its target.

Prerequisite: CHM 247H1/249H1; (CHM 220H1,221H1)/225Y1; BCH 210H1

### PHC320H1 Medicinal Chemistry 39 L

Modern discovery and synthesis of antibiotics, antineoplastics, antiviral and other therapeutic agents.

Prerequisite: CHM 247H1/249H1; BCH 210H1

### PHC330Y1 Pharmaceutics 78L, 24T

The study of the science and technology underlying drug delivery are covered. The properties of different dosage forms and delivery routes are studied with an emphasis on oral and parenteral routes.

Prerequisite: CHM 247H1/249H1; CHM (220H1,221H1)/225Y1; BCH 210H1

### PHC340Y1 Pharmaceutical Chemistry 26L, 78P Laboratory

The scientific basis and practical techniques relevant to modern pharmaceutical development.

Prerequisite: CHM 247H1/249H1; (CHM 220H1,221H1)/225Y1; BCH 210H1

### PHC401H1 Drug Transport across Biological Membranes 26L

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.

Prerequisite: PHC300Y1, Permission of the Department

### PHC430H1 Recent Developments in Dosage Form Design 26L

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.

Recommended: (PHC330Y1,PHC340Y1)/PHM224Y1, Permission of the Department

### PHC431H1 Selected Topics in Drug Development 26L

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.

Recommended: (PHC330Y1,PHC340Y1)/PHM224Y1, Permission of the Department

### PHC450H1 Applications of Pharmaceutical Analysis in Pharmacy and Medicine 21L, 16P

Overview of methods of pharmaceutical analysis such as titrations, UV-visible, IR, NMR and mass spectroscopy, fluorescence, HPLC, GC, TLC, electrophoresis, blotting, immunoassays and radiometric methods. Regulatory aspects of drug product quality control are covered. Introduces applications in pharmacy, therapeutic drug monitoring, toxicology, forensic science, athletics and clinical laboratory medicine.

Prerequisites: PHC300Y1/PHM222Y, (PHC330Y1,PHC340Y1)/PHM224Y, Permission of the Department

### PHC451H1 Radiopharmaceuticals in Diagnosis and Therapy 14L, 14P

Presents use of radiopharmaceuticals in diagnosis and therapy, emphasizing those used in nuclear medicine procedures studying neurological, cardiovascular, pulmonary, gastrointestinal, haematologic, endocrine and bone pathology.

Prerequisite: (PHC330Y1,PHC340Y1)/PHM 224Y1, Permission of the Department

## Life Sciences: Pharmaceutical Chemistry

**PHC452HI Selected Topics in Radiopharmaceuticals 14L, 12P**

Introduces nuclear pharmacy through the discussion of problems that explain the design, production, analysis, and the clinical use of radiopharmaceuticals. Topics introduced using group discussions and laboratory exercises.

Prerequisites: (PHC330Y,PHC340Y)/PHM224Y, Permission of the Department

**PHC460HI Fundamentals of Drug Discovery 26L**

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.

Prerequisites: BIO250YI, PHC300YI/PHM222YI, Permission of the Instructor

**PHC461HI Selected Topics in the Pharmaceutical Industry 26L**

Introduces drug development from the perspective of the pharmaceutical industry. Describes key stages in drug development process; current issues facing industry and role of pharmacists and pharmaceutical scientists in the process. Lectures are given by specialists employed in the pharmaceutical industry and concepts covered in the lectures will be applied to in-class case studies.

Prerequisites : PHC300YI/PHM222YI, (PHC330YI,PHC340YI)/PHM224YI, Permission of the Department

**PHC470HI Global Pharmaceutical Policy: Power and Politics 26L**

Introduces concepts and issues in international pharmaceutical policy. Emphasis placed on how governments in different jurisdictions manage their public health responsibilities, international obligations, and pressure from special interest groups in terms of pharmaceutical policy.

Prerequisite: Permission of the Department

This is a Social Science course.

**PHC489YI Pharmaceutical Chemistry Research 156P**

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.

Prerequisite: Permission of the Department and the Project Supervisor

# Life Sciences: Pharmacology and Toxicology

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## Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

### Faculty

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#### Professors Emeriti

W.M. Burnham, Ph D  
L. Endrenyi, Ph D  
G.J. Goldenberg, MD, Ph D  
J.N. Heersche, Ph D  
T. Inaba, Ph D  
D. Kadar, Ph D  
H. Kalant, MD, Ph D  
W. Kalow, MD  
J.M. Khanna, Ph D  
P.J. O'Brien, Ph D  
R.I. Ogilvie, MD  
A. B. Okey, Ph D  
C. Pace-Asciak, Ph D  
W.H.E. Roschlau, MD  
P. Seeman, MD, Ph D  
E.M. Sellers, MD, Ph D  
F.A. Sunahara, Ph D

#### Professor and Chair of the Department

D.M. Grant, Ph D

#### Professors

U.E. Busto, Pharm D  
P. Dorian, MD  
S. George, MD  
D.R. Hampson, Ph D  
D. Haas, Ph D, DDS  
S. Ito, MD  
J. Keystone, MD  
S. Kish, Ph D  
G. Koren, MD  
J.F. MacDonald, Ph D  
M.W. Milgram, Ph D  
M. Moore, MD  
C. Naranjo, MD  
B.F. O'Dowd, Ph D  
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P. Pennefather, Ph D  
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J.P. Uetrecht, MD, Ph D  
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P.G. Wells, Pharm D

#### Associate Professors

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N. Chirgadze, Ph D  
L. Grupp, D Sc  
P. Harper, Ph D  
A.D. Lê, Ph D  
B. LeFoll, MD, Ph D  
P. Li, Ph D  
J. Mitchell, Ph D  
J.N. Nobrega, Ph D  
H-W Park, Ph D  
A. Petronis, MD, Ph D  
M. Piquette-Miller, Ph D  
D. Riddick, Ph D

#### Assistant Professors

S. Belo, MD, Ph D  
B. Brands, Ph D  
A.J. Lança, MD, Ph D  
K. Lanctôt, Ph D  
J. Matthews, Ph D  
J.M. Mayer, Ph D  
R.S. McIntyre, MD  
J.P. McPherson, Ph D  
N. Mittmann, Ph D  
M.G. Neuman, Ph D  
G. Rachamin, Ph D  
C. Toal, Ph D  
D. Tomkins, Ph D  
S. Verma, MD, Ph D  
A.H.C. Wong, MD, Ph D  
M. Zack, Ph D

#### Senior Lecturer

C. Woodland, Ph D

#### Lecturer

M. Arnot, Ph D

Pharmacology and Toxicology are broadly based and integrative disciplines of biology dealing with 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 pharmaceuticals, the investigation and control of pollutants and poisons in natural and social environments, etc. The Department of Pharmacology offers four specialist and two major undergraduate programs of study:

I. Specialist Program in Pharmacology. Pharmacology is the study of the interactions of chemical substances with living systems, with a view to understanding the properties of drugs and their actions from the molecular level to whole body systems. The objectives of this program are to provide a structured introduction to the scientific aspects of the discipline with exposure to some investigational and research problems in preparation for advanced graduate study and research in pharmacology. Students are provided with opportunities to learn about pharmacology and related areas through lectures, tutorials, laboratories, and independent research projects. Pharmacology (and its application in clinical therapeutics) plays

# Life Sciences: Pharmacology and Toxicology

a prominent role in Medicine, Dentistry and Pharmacy. However, there is no equivalence between the professional Pharmacy degree offered in the Faculty of Pharmacy and this Arts & Science Specialist Program in Pharmacology.

2. Specialist Program in Toxicology. This specialist program deals with the study of the harmful effects of chemicals on the health and behaviour of individuals and society. This program focusses on the application of toxicological knowledge and data and not only serves as preparation for advanced graduate study and research in toxicology, but also for toxicological work in forensic science, nutrition and food science, governmental agencies, consulting agencies, industrial settings, etc. Students are exposed to modern experimental techniques utilized in toxicology and have opportunities for independent research under the supervision of a faculty member. Students interested in environmental toxicology should consider enrolling in the Specialist Program in Environment and Toxicology, jointly sponsored by the Department of Pharmacology and the Centre for Environment.

3. Double Specialist in Pharmacology and Toxicology. This program combines the requirements of the two previous specialist programs. Many students choose to take an extra year to complete this program.

4. Specialist Program in Environment and Toxicology. This program is jointly sponsored by the Department of Pharmacology and the Centre for Environment. For additional information see "Centre for Environment" or consult the website, [www.environment.utoronto.ca](http://www.environment.utoronto.ca).

5. Major Programs in Pharmacology and in Toxicology. These programs are intended for undergraduate students who want to have a solid knowledge in these disciplines, allowing students to combine different and complementary areas of expertise in Life Sciences. This approach contributes to a broader and multidisciplinary undergraduate training that is particularly relevant for students interested in pursuing further studies in professional health science programs.

Enrollment in all programs is limited. Minimum CGPAs are required for application to these programs (see below). For further information consult the A&S Registration Handbook and Timetable and our website: [http://www.library.utoronto.ca/pharm\\_tox/index.htm](http://www.library.utoronto.ca/pharm_tox/index.htm)

Undergraduate Office - General Inquiries:  
Medical Sciences Building, Room 4207 (416-978-2728)

Undergraduate Coordinator:  
Dr. C. Woodland, Medical Sciences Building, Room 4245 (416-978-3102)

## Pharmacology and Toxicology Programs

Enrollment in these Programs is limited. To apply to these programs, you must have a minimum CGPA of 3.0 for the specialist and major programs in Pharmacology and in Toxicology. A minimum CGPA of 3.5 is required for application to the Double Specialist program. Applicants will only be considered if they have completed all of the first year required courses (as shown below). Please note that having the minimum CGPA for application does not guarantee acceptance into the program.

## Pharmacology (Science program)

### Specialist program:

(15 full courses or their equivalent, including at least three 400-series courses)

Enrollment in this program is limited. A minimum CGPA of 3.0 is required.

First Year:

BIO150Y1; CHM138H1, CHM139H1/151Y1; MAT135Y1/137Y1; PHY110Y1/138Y1/140Y1 (PHY 138Y1 recommended)

Second Year:

BCH210H1; BIO250Y1; BIO260H1/HMB265H1; CHM217H1/220H1, CHM247H1/249H1; PCL201H1

Third Year:

BCH370H1; BIO349H1; PCL302H1, PCL376H1 (see NOTE 1); PSL302Y1\*, PSL372H1 (\*NOTE: PSL201Y1 is not acceptable)

Fourth Year:

PCL470Y1, PCL471Y1 (see NOTE 2), PCL472Y1 (see NOTE 3); and one full-credit equivalent from: ANA300Y1/ZOO263Y1/BCH304H1/BCH445H1/ANA301H1/ZOO325H1/ZOO328H1/PCL477H1

### NOTES

1. PCL376H1 may be taken either as a pre-requisite or a co-requisite to the research project course, PCL472Y1.
2. Enrollment in the Pharmacology Laboratory course (PCL471Y1) is restricted to students enrolled in the Pharmacology or Double Specialist programs.
3. Enrollment in the research project course (PCL472Y1) is limited and requires permission from the Department of Pharmacology. Students must receive prior consent of an approved supervisor according to departmental guidelines before the Department of Pharmacology will register them in the course. It is the student's responsibility to initiate all necessary preparations before the session starts (see course description).

### Major program in Pharmacology:

(8 full courses or their equivalent, including two 300-series courses and one 400-series course)

Enrollment in this program is limited. Students may apply after completing 4 courses including all the First Year requirements with a minimum CGPA of 3.0.

First Year:

BIO150Y1; CHM138H1, CHM139H1/151Y1

Second Year:

BCH210H1; BIO250Y1; PCL201H1; CHM217H1/220H1 (see NOTE 1); CHM247H1/249H1

Third Year:

PCL302H1; PSL302Y1; BCH370H1/BIO349H1 (see NOTE 2)

Fourth Year:

PCL470Y1

### NOTES

1. CHM220H1 requires MAT135Y1/137Y1/151Y1 as a prerequisite.
2. BIO349H1 requires BIO260H1/HMB265H1 as a prerequisite.
3. Students are not allowed to enroll concurrently in the Major Program in Pharmacology and the Major Program in Toxicology.

# Life Sciences: Pharmacology and Toxicology

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- Students are not allowed to enroll concurrently in the Major Program in Pharmacology and a Specialist Program in Toxicology.

## **Toxicology (Science program)**

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### **Specialist program:**

(15.5 full courses or their equivalent, including at least 2.5 400-series courses)

Enrollment in this program is limited. A minimum CGPA of 3.0 is required.

First Year:

BIO150Y1; CHM138HI, CHM139HI/151Y1; MAT135Y1/137Y1; PHY110Y1/138Y1/140Y1 (PHY138Y1 recommended)

Second Year:

BCH210HI; BIO250Y1; BIO260HI/HMB265HI; CHM217HI/220HI, CHM247HI/249HI; PCL201HI

Third Year:

BCH370HI; LMP363HI; PCL302HI, PCL362HI, PCL365Y1, PCL376HI (see NOTE 1); PSL302Y1\* (\*NOTE: PSL201Y1 is not acceptable)

Fourth Year:

LMP301HI; PCL473Y1, PCL474Y1 (see NOTE 2), PCL481HI; and one half-credit equivalent from: ANA301HI/CHM310HI/GGR409HI/NFS488HI/PCL477HI

### **NOTES**

- PCL376HI may be taken either as a pre-requisite or a co-requisite to the research project course, PCL474Y1.
- Enrollment in the research project course (PCL474Y1) is limited and requires permission from the Department of Pharmacology. Students must receive prior consent of an approved supervisor according to departmental guidelines before the Department of Pharmacology will register them in the course. It is the student's responsibility to initiate all necessary preparations before the session starts (see course description).
- Enrollment in the Toxicology Laboratory course (PCL365Y1) is restricted to students enrolled in the Toxicology Specialist or Double Specialist programs.

### **Major program:**

(8 full courses or their equivalent, including two 300-series courses and one 400-series course).

Enrollment in this program is limited. Students may apply after completing 4 courses including all the First Year requirements with a minimum CGPA of 3.0.

First Year:

BIO150Y1; CHM138HI, CHM139HI/151Y1

Second Year:

BCH210HI; BIO250Y1; PCL201HI; CHM217HI/220HI (see NOTE 1); CHM247HI/249HI

Third Year:

PCL302HI; PSL302Y1; PCL362HI (see NOTE 2)

Fourth Year:

PCL473Y1

### **NOTES**

- CHM220HI requires MAT135Y1/137Y1/151Y1 as a pre-requisite.
- Although LMP301HI (Introduction to the Biochemistry of Human Disease) and LMP363HI (Principles of Pathobiology) are not pre-requisites to enroll in PCL473Y1, students are strongly recommended to enroll in at least one of these courses.
- Students are not allowed to enroll concurrently in the Major Program in Toxicology and the Major Program in Pharmacology.
- Students are not allowed to enroll concurrently in the Major Program in Toxicology and a Specialist Program in Pharmacology.

## **Double Specialist in Pharmacology and Toxicology (Science program)**

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This program requires completion of both the Pharmacology and Toxicology Specialist courses and may require an extra year for completion. Enrollment in this program is limited and a minimum CGPA of 3.5 is required. Students are allowed to enroll in only one of the two project course (PCL472Y1/PCL474Y) offered by the Department of Pharmacology.

## **Specialist program in Environment and Toxicology (Science program)**

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This program is jointly sponsored by the Department of Pharmacology and the Centre for Environment. For additional information see "Centre for Environment" or consult the website, [www.environment.utoronto.ca](http://www.environment.utoronto.ca).

## **Pharmacology and Toxicology Courses**

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all PCL courses are classified as SCIENCE courses (see page 27).

### **PCL299Y1 Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

### **PCL201HI Introduction to Pharmacology: 39L, 13T Pharmacokinetic Principles**

A general introduction to pharmacology. Topics include absorption, distribution, biotransformation, elimination, calculation of dosages, variability in drug response and adverse drug reactions.

Recommended co-requisites: BIO250Y1, CHM217HI/220HI, CHM247HI/249HI

### **PCL302HI Introduction to Pharmacology: 39L, 13T Pharmacodynamic Principles**

Topics include biological action of drugs on membranes, enzymes, receptors, neural and hormonal systems, transmission and modulation.

Prerequisites: BIO250Y1, CHM217HI/220HI, CHM247HI/249HI, PCL201HI

### **PCL362HI Introductory Toxicology 26L**

Toxicological problems encountered in animals and humans; biochemical mechanisms and clinical factors of toxicological significance; models of drug-related diseases.

# Life Sciences: Pharmacology and Toxicology

Prerequisites: BCH210HI, BIO250YI, CHM217HI/220HI, CHM247HI/249HI, PCL201HI

Recommended Co-requisite: BIO349HI, PCL302HI

## **PCL365YI Toxicology Laboratory 20L, 72P**

A hands-on laboratory course exploring a wide variety of modern experimental techniques currently utilized in toxicology. This course will provide the experimental theory of how the techniques work and their advantages and disadvantages, while additionally allowing students to perform these techniques in the process of addressing toxicological problems. Enrollment in this course is restricted to students enrolled in the Toxicology Specialist and Double Specialist programs.

Prerequisites: PCL201HI

Co-requisites: PCL302HI, BCH370HI, PSL302YI

## **PCL376HI Experimental Design and Data Analysis for Pharmacology and Toxicology 26L**

A practically oriented course, focussed 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. PCL376HI can be taken either as a prerequisite or a co-requisite to the research project course PCL472YI/474YI.

Prerequisite: PCL201HI

Co-requisite: PCL302HI

Exclusion: PCL476HI

## **PCL470YI Systems Pharmacology 78L**

Concepts of the properties of drugs and chemicals and their interaction with living systems and their constituent parts. Mechanism of action and pharmacological properties of drugs acting on the autonomic and central nervous systems, cardiovascular, renal, respiratory, gastrointestinal, immunological and endocrine systems; endogenous compounds; antimicrobial and anti-inflammatory drugs, chemotherapy and special topics in pharmacology.

Prerequisites: BCH210HI, PCL201HI, PCL302HI, PSL302YI

## **PCL471YI Pharmacology Laboratory 104P**

Demonstrations, seminars, and laboratory exercises in selected areas of Pharmacology. Enrollment in this course is restricted to students enrolled in the Pharmacology Specialist and Double Specialist programs.

Prerequisites: BCH370HI, PSL372HI, PCL201HI, PCL302HI and permission of Department

Co-requisite: PCL470YI

## **PCL472YI 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 staff member and will submit a final written report. Enrollment is limited and requires permission from the Department of Pharmacology. It is the student's responsibility to secure a placement with an approved supervisor before the course begins (a list of potential supervisors can be obtained from the Department of Pharmacology). Students will be registered in the course once their ballot form (obtained from the Department of Pharmacology) is signed by an approved supervisor and approved by the Department of Pharmacology.

Prerequisites: PCL201HI, PCL302HI, PCL376HI (see NOTES above) and permission of Department

Co-requisite: PCL376HI (see NOTES above)

Exclusion: PCL474YI

## **PCL473YI Interdisciplinary Toxicology 52L**

A survey course examining traditional and contemporary problems in toxicology. The toxicities associated with a variety of toxins and toxicants are examined. General principles and the application of toxicological knowledge are discussed including clinical toxicology, forensic toxicology, and risk assessment.

Prerequisites: BCH210HI, PCL201HI, PCL302HI, PCL362HI

Recommended preparation: BIO349HI

## **PCL474YI 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. Enrollment is limited and requires permission from the Department of Pharmacology. It is the student's responsibility to secure a placement with an approved supervisor before the course begins (a list of potential supervisors can be obtained from the Department of Pharmacology). Students will be registered in the course once their ballot form (obtained from the Department of Pharmacology) is signed by an approved supervisor and approved by the Department of Pharmacology.

Prerequisites: PCL201HI, PCL302HI, PCL376HI (see NOTES above) and permission of Department

Co-requisite: PCL376HI (see NOTES above)

Exclusion: PCL472YI

## **PCL475YI Neuropsychopharmacology 78L, 26T**

Major neuro-psychiatric disease syndromes: clinical pathology and neuronal abnormalities; CNS drugs: theories and mechanisms of action.

Prerequisite: Enrollment is limited to students with a minimum CGPA of 3.0.

## **PCL477HI The DNA Damage Response in Pharmacology and Toxicology 26L**

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: BCH210HI/242YI

Recommended Preparation: PCL201HI, PCL302HI, BIO349HI/JLM349HI/MGY311YI/PSL350HI

## **PCL481HI The Molecular and Biochemical Basis of Toxicology 26L**

The biochemical principles and molecular mechanisms underlying the toxicity of drugs and foreign agents. The sequence of events at the molecular level leading to impairment of cell function and the factors which determine and affect toxicity.

Prerequisites: PCL201HI, PCL302HI, PCL362HI, BCH210HI, LMP363HI

# Life Sciences: Physiology

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## Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

### Faculty

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#### Professors Emeriti

U. Ackermann, M Sc, Ph D  
H.L. Atwood, MA, PhD, DSc, FRSC  
P.E. Hallett, MA, MD  
A.A. Horner, BA, Ph D  
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D.H. Osmond, MSA, Ph D  
M. Radomski, MA, Ph D  
A. Sirek, MA, MD, Ph D  
H. Sonnenberg, M Sc, Ph D  
A.M-F. Sun, MA, Ph D

#### Professor and Chair of the Department

J.F. MacDonald, B Sc, Ph D, FRSC

#### Professors

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G.H. Anderson, M Sc, Ph D  
P. Backx, Ph D  
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J.R.G. Challis, PhD, D Sc, FIBiol, FRCOG, FRSC  
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P.P. Liu, MD  
S.J. Lye, B Sc, Ph D  
S.G. Matthews, Ph D  
F. Miller, Ph D, FRSC  
H. O'Brodovich, MD  
B. Orser, MD, Ph D  
B. Pomeranz, MD, Ph D  
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J. Roder, Ph D  
N.D. Rosenblum, MD  
M.W. Salter, MD, Ph D, FRSC  
L.C. Schlichter, M Sc, Ph D

Z. Seltzer, DMD  
B.J. Sessle, MDS, Ph D  
E.F. Stanley, Ph D  
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K. Tanswell, MB, BS, FRCP (C)  
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C. Wittnich, DVM, M Sc  
J.M. Wojtowicz, Ph D  
M. Zhou, Ph D

#### Associate Professors

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M. Husain, MD, FRCP(C)  
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Z. Jia, Ph D  
N. Jones, MD, Ph D, FRCP (C)  
H.C. Kwan, M Sc, Ph D  
F. Liu, Ph D  
W.A. MacKay, M Sc, Ph D  
L.R. Mills, Ph D  
P.S. Pennefather, B Sc, Ph D  
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H. Zhang, MD, PhD

#### Assistant Professors

K. Banks, DVM, M Sc  
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S. Heximer, Ph D  
R. Jankov, Ph D, FRACP, MB, BS  
T. Jin, MD, PhD  
S. Josselyn, Ph D  
A. Jurisicova, Ph D  
T.K.T. Lam, PhD  
E.K. Lambe, PhD  
W.Y. Lu, MD, Ph D  
W.E. McLroy, M Sc, Ph D  
P.P. Monnier, Ph D, MBA  
H. Mount, Ph D  
D. Ng, Ph D, MD, FRCP (C)



J. Peever, Ph D  
A. Plotnikov, Ph D  
C.D. Rodgers, Ph D  
S. Sugita, MA, Ph D  
A. Velumian, Ph D  
A. Volchuk, Ph D  
Q. Wan, MD, Ph D  
Q. Wang, MD, Ph D  
M. Zhen, Ph D

## Senior Lecturer

C. Perumalla, M Sc, D Phil

Physiology is the study of living matter in action. It explains body organ function in terms of physical and chemical principles. It is an integrating discipline dealing with controls, compensations, and interrelationships. Interaction with the environment is a major factor in Physiology. In addition, Physiology serves as a bridge between cellular biology, systems analysis, and behaviour.

Physiology provides a necessary background for the study of Pharmacology; a preparation for graduate work in Physiology and related areas; for the teaching of Biological Science in secondary schools; or for subsequent training in Medicine, Dentistry, Pharmacy, Nursing, and the Health Sciences in general. Physiologists are needed also in hospitals and departments of medicine as teachers and research personnel. Other outlets would be in agriculture and veterinary schools, 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 very different technical and analytical methods. More information is available on the departmental web-site ([www.uoftphysiology.com](http://www.uoftphysiology.com)). Students in the Major program are encouraged to combine Physiology with a non-Life Science major, e.g. Computer Science, Chemistry, Physics or Mathematics.

Undergraduate Secretary: Professor W.A. MacKay, Medical Sciences Building, Room 3368 (416-978-2675)

Enquiries and Counseling: Medical Sciences Building, Room 3209 (416-978- 5077)

## Physiology Programs

**Biophysics: see Physics**

**Neuroscience: see Life Sciences: Human Biology**

## Physiology (Science program)

Enrolment in this Program is limited. Selection is based on GPA in first year required courses.

### Specialist program:

(14 full courses or their equivalent, including at least two 400-series course)

First Year:

BIO 150Y1; CHM 138H1, 139H1; MAT 135Y1/137Y1; PHY 110Y1/138Y1/140Y1 (PHY 138Y1 recommended)

Second Year:

BCH 210H1; BIO 250Y1; CHM 247H1/ CHM 220H1; MAT 235Y1/PHY 238Y1; PSL 302Y1

Third Year:

1. BCH 370H1; CSB 349H1/PSL 350H1; PSL 303Y1, 372H1, 374H1
2. One full-course equivalent from: ANA 300Y1; BCH 304H1, 305H1; IMM 334Y1; JZP 326H1; PCL 201H1, 302H1; STA 250H1; CSB 325H1, 332H1, 345H1, 346H1, 347H1

Fourth Year:

Two full-course equivalents from: PSL 400-series

### Major program:

(8 full courses or their equivalent)

Enrolment in this Program is limited. Students may apply after completing 4 courses including all the First Year requirements.

First Year:

BIO 150Y1; CHM 138H1, 139H1; MAT 135Y1/PHY 110Y1/138Y1

Second Year:

BCH 210H1; BIO 250Y1; PSL 302Y1

Higher Years:

1. PSL 372H1
2. One full-course equivalent from: ANA 300Y1; BCH 304H1, 305H1; IMM 334Y1; JZP 326H1; PCL 201H1, 302H1; CSB 330H1, 325H1, 332H1, 345H1, 346H1, 347H1, 349H1
3. One full-course equivalent from: PSL 303Y1, 374H1, 350H1, 400-level courses

### Minor program:

(4 full courses or their equivalent)

Enrolment in this Program requires the completion of 4 courses; no minimum GPA required. One 300-series course must be included in the program.

1. BIO 150Y1; PSL 201Y1/302Y1
2. Two full-course equivalents from: BIO 251Y1, 252Y1, 328H1; JZP 326H1, 428H1; NRS 201H1/HMB200H1; PSL 303Y1, 350H1, 400-series; PSY 290H1, 391H1; CSB, 325H1, 332H1, 344H1, 345H1, 346H1, 347H1

## Physiology Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all PSL courses are classified as SCIENCE courses.

### PSL201Y1 Basic Human Physiology 52L

A survey course intended for students who are not proceeding further in Physiology.

Exclusion: Any PSL course taken previously or concurrently

Prerequisite: 100-level course in BIO or equivalent

### PSL299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details.

### PSL300H1 Human Physiology I 39L, 5T

Principles of neurophysiology and endocrinology for students enrolled in the Neuroscience program.

Exclusion: PSL201Y1, PSY391H1

Prerequisite: BIO150Y1; CHM138H1; PHY100-series

# Life Sciences: Physiology

## **PSL301HI Human Physiology II 39L, 4T**

Principles of respiratory, cardiovascular, gastrointestinal, renal and reproductive physiology for students enrolled in the Neuroscience program.

Exclusion: PSL201Y1

Prerequisite: BIO150Y1; CHM138HI; PSL 300HI

## **JBO302YI Human Physiology and Biophysics 78L, 12T**

Principles of Human Physiology with tutorials on the biophysical concepts applied to physiological processes. Restricted to students enrolled in the Biophysics program.

Exclusion: PSL201Y1, 302Y1

Prerequisite: BIO150Y1; CHM138HI; MAT135Y1/137Y1; PHY138Y1/140Y1

## **PSL302YI Human Physiology 78L, 9T**

Principles of Human Physiology for students enrolled in Basic Medical Science programs.

Exclusion: PSL201Y1

Prerequisite: BIO150Y1, CHM138HI; MAT100-series/PHY100-series

## **PSL303YI Topics in Cellular, Molecular and Organismic Physiology 78L, 26T**

Using homeostasis and feedback as a unifying theme, topics in control systems, cell signaling, rhythms, environmental adaptations and body weight regulations are examined. Tutorials use computer simulations and problem sets.

Prerequisite: JBO302Y1/PSL302Y1, MAT 100-series, PHY 100-series

Co-requisite: PSL372HI, 374HI or permission of Department

## **PSL350HI Mammalian Molecular Biology 20L, 6S**

Molecular biology is essential for understanding mammalian function. The knowledge from BIO250Y of DNA, RNA, and protein is extended to current, primary literature on mammalian molecular biology. Application of molecular biology to disease and to complex behaviors is followed by small group sessions on topics with a bioethics component.

Prerequisite: BIO250Y1

Exclusion: BIO349HI/CSB349HI/MGY311Y1

Pre- or Co-requisite: PSL300HI/301HI/302Y1/ JBO302Y1/ BCH210HI

## **PSL372HI Mammalian Physiology Laboratory 13L, 39P**

A laboratory course covering selected topics in physiology.

Prerequisite: BIO250Y1, BCH210HI, MAT 100-series/PHY 100-series

Pre- or Co-requisite: PSL302Y1, BCH370HI (recommended)

## **PSL374HI Advanced Physiology Laboratory 13L, 13S, 39P**

A problem-based laboratory course focused on the integration of organ systems to understand the control mechanisms of body function.

Prerequisite: BIO250Y1, PSL302Y1, PSL372HI

Co-requisite: BCH370HI

## **PSL420HI Reproduction I: Development and Function 26L**

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, gametogenesis, hormonal control of the reproductive systems,

the female ovulatory cycle, seasonal breeding, sexual behaviour, fertilization and implantation.

Prerequisite: PSL302Y1

## **PSL421HI Reproduction II: Pregnancy and Birth 26L**

General overview of the integrated physiologic events associated with pregnancy and birth. The approach emphasizes physiologic processes using insights gained from studies of humans, animals, cells and genes. Where appropriate the clinical consequences of aberrant development are reviewed.

Prerequisite: PSL302Y1

Recommended Preparation: PSL420HI

## **PSL425HI Integrative Metabolism and its Endocrine Regulation 26L**

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: BCH210HI, PSL302Y1

Recommended Preparation: PSL303Y1

## **PSL432HI Theoretical Physiology 26L**

Theoretical treatment of neurophysiology. Mathematical modeling and analysis of neurophysiological systems.

Prerequisite: MAT235Y1/237Y1; APM346HI/MAT244HI

Recommended Preparation: PHY200-series; PSL201Y1/302Y1/ BIO252Y1

## **PSL440YI Neuroscience I: Systems and Behaviour 78L**

Introduction to systems neuroscience. A review of basic neuroanatomy and physiology followed by in-depth study of selected sensory and motor systems. Students with an elementary neuroscience background progress to reading neuroscience literature on their own.

Prerequisite: PSL300HI/302Y1/PSY290HI/CSB332HI or equivalent

## **PSL443HI Motor Control Systems 26L**

Control of body movement and posture by the nervous system in normal and pathological conditions. Topics include nonlinear dynamical systems, central pattern generators in the cerebral cortex, brainstem and spinal cord, reflexes, and basal ganglia-cerebellar function.

Prerequisite: PSL300HI/302Y1

## **PSL444YI Neuroscience II: Cellular and Molecular 78L**

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.

Prerequisite: PSL300HI/302Y1/CSB332HI

## **PSL 450HI Mechanisms of Neural and Endocrinal Secretion 26L**

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: BCH 210HI, PSL 302Y1/BIO 252Y1, PSL 350HI/ CSB 349HI

**PSL452HI Membrane Physiology 26L**

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.

Prerequisite: PSL303YI

Recommended Preparation: PSL432HI

**PSL454HI Physiological Instrumentation 13L, 39P  
and Electronics**

A practical approach to instrumentation as a preparation for using sophisticated measurement systems.

Prerequisite: PHY138YI or equivalent

**PSL460HI Molecular Physiology 26L, 4S**

An overview of the ways in which techniques in molecular biology are being used to resolve current issues in physiology. The systems to be studied include individual cells, organ systems, integrated systems, and whole animal physiology and pathophysiology.

Prerequisite: BCH210HI, BIO250YI, CSB349HI/PSL350HI, PSL302YI

**PSL462HI Molecular Aspects of 26L  
Cardiovascular Function**

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.

Prerequisite: PSL303YI

**PSL470HI Cardiovascular Physiology 26L, 13T**

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: PSL302YI

**PSL472HI Sleep Physiology and 26L  
Chronobiology**

An in-depth analysis of the basic physiology underlying sleep and circadian rhythms, and of their impact on important physiological processes, of which effects on cardio-respiratory systems are emphasized.

Prerequisite: PSL302YI

**PSL498YI/ Project in Physiology 156P/78P  
499HI**

Laboratory research project with reading assignments leading to a final report. By special arrangement with a Physiology staff member after admission to course. PSL498YI is recommended for students applying to the Physiology graduate program.

Prerequisite: PSL303YI, 372HI, 374HI, permission of Department

# Life Sciences: Psychology

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## Faculty

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### University Professors Emeriti

E. Tulving, MA, Ph D, D Litt, FD, FRS  
F.I.M. Craik, B Sc, Ph D, FRSC

### Professors Emeriti

A.J. Arrowood, BA, Ph D  
J.L. Freedman, MA, Ph D  
J.J. Furedy, MA, Ph D  
J.A. Hogan, MA, Ph D  
M.W. Lawrence, MA, Ph D  
R.S. Lockhart, MA, Ph D (N)  
N. Mrosovsky, BA, Ph D  
B.B. Murdock, BA, Ph D  
B.B. Schiff, M Sc, Ph D  
A.M. Wall, BA, Ph D  
G.C. Walters, BA, Ph D (W)  
B.T. Wigdor, CM, Ph D, D Sc

### Professor and Interim Chair of the Department

C.P. Herman, BA, Ph D

### Professor and Acting Director (Undergraduate Studies) (to Dec 31, 2007)

C.C. Helwig, BA, Ph D

### Assistant Professor and Acting Director (Undergraduate Studies) (Jan 1 to June 30, 2008)

S. Ferber, Diplom, Ph D

### Professor and Director (Graduate Studies)

J.W. Pratt, MS, Ph D

### Professors

D. Goldstein, MA, Ph D  
J.E. Grusec, BA, Ph D  
L. Hasher, AB, Ph D  
M. Moscovitch, MA, Ph D  
M.R. Ralph, BS, Ph D  
S.J. Shettleworth, MA, Ph D  
I. Spence, MA, Ph D  
F.J. Vaccarino, M Sc, Ph D  
J.S. Yeomans, BA, Ph D (U)

### Associate Professors

A. Chasteen, MA, Ph D  
G. Einstein, MA, Ph D  
P. Lockwood, MA, Ph D  
G. MacDonald, BA, Ph D  
J.B. Peterson, BA, Ph D  
J.E. Plaks, MA, M Phil, Ph D  
R.W. Tafarodi, BA, Ph D

### Assistant Professors

G. Adams, Ph D  
A. Anderson, Ph D  
D. Barner, MA, Ph D  
E. DeRosa, Ph D  
H. Lempert, M Sc, Ph D  
J.L. Tackett, MA, Ph D

### Special Lecturers

M. Bagby, Ph D  
M. Gemar, B Sc, Ph D  
R. Hetherington, MA, Ph D  
N. Rector, BA, Ph D  
N. Stuckless, Ph D  
D. Urbszat, Ph D  
J. Vervaeke, Ph D

### Lecturer

D. Dolderman, Ph D  
F. Taverna, Ph D

Psychology is that branch of science which focuses on the behaviour of human beings and animals, with particular emphasis on the individual rather than the group. Our courses span the various areas of psychology and introduce students to the methods used in psychological research. The basic tools of the 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 developmental psychology, social psychology, personality, abnormal psychology, human and animal learning, cognitive psychology, perception, and physiological psychology. A more detailed description of the individual courses and the names and interests of the course instructors appear on web pages at <http://www.psych.utoronto.ca/~undergra/undergrad.html>. We encourage students at all levels, and particularly those who are beginning a Major or Specialist program in Psychology, to consult the Undergraduate Psychology Web Site before selecting courses and to discuss their proposed programs with the Undergraduate Advisor, the Undergraduate Director, or a faculty member in the Department.

Courses in the various areas within Psychology and the numbering system associated with these courses follow a definite pattern: PSY XXX. 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, PSY 220 at the second year, PSY 320, 321, 322, and 323 at the third year, and PSY 420 at the fourth year represent all the Social Psychology courses. Other areas within Psychology follow a similar pattern.

Students in St. George campus Psychology programs are given first priority for enrolment in all second, third and fourth year Psychology courses. Please consult the Registration Handbook & Timetable for details.

Undergraduate Advisor: Sidney Smith Hall, Room 4014 (416-978-3407)

General Enquiries: Sidney Smith Hall, Room 4020 (416-978-7617)

Undergraduate Web Site:  
<http://www.psych.utoronto.ca/~undergra/undergrad.html>

## Psychology Programs

(See Undergraduate Web Site for further details)

NOTE: JLP 315HI, 374HI, 471HI count as PSY credits for all Psychology programs.

Entry into all Psychology programs requires an OAC or MCB4U Calculus (or equivalent). There is, however, no Calculus prerequisite for PSY100HI. Students who completed PSY100HI in 1997 or earlier at the University of Toronto are exempt from the OAC/MCB4U Calculus requirement.

### Psychology Research (Science program)

#### Specialist program:

(9.0 full courses or their equivalent, including at least 1.5 400-series full courses or equivalent, and no more than 10.0 full courses)

This program is designed for students who have demonstrated particular interest and aptitude in research. Enrolment in the Research Specialist program is limited. Students apply in the spring term of their second year. All students enrolling in or considering the Research Specialist program should enroll in a PSY lab course in the fall of their third year. Admission to the program is based on academic performance and expressed interest in research. To be admitted students must have completed a) OAC/MCB4U Calculus or equivalent; b) PSY 100HI/YI; c) PSY 201HI and 202HI (or equivalent); d) four 200-level PSY courses, with an average of at least 73% across all PSY courses. (Note that this does not mean 73% in each PSY course); and e) have a CGPA of at least 3.0. Please see the Undergraduate Web Site for additional information on requirements and applying to the Program.

NOTE: The courses include 1.0 full course equivalent in Statistics and 8.0 full courses or equivalent in PSY

First Year:

PSY 100HI/100YI

After PSY 100:

1. Statistics: PSY (201HI, 202HI)/ECO 220YI/227YI/GGR 270YI/SOC (202HI, 300HI)/STA (220HI, 221HI)/250HI
2. Two of PSY 210HI, 220HI, 230HI, 240HI (Cluster A), and two of 260HI, 270HI, 280HI, 290HI (Cluster B)
3. Four half-courses at the 300-level from Group I below, with at least one half-course from each of Clusters A and B
4. One of PSY 319HI/329HI/339HI/369HI/379HI/389HI/399HI
5. PSY 309HI
6. PSY 400YI, 409HI
7. Two courses (H or Y) at any level, taken from Groups I and/or 2 below

### Psychology (Science program)

#### Specialist program:

(9.0 full courses or their equivalent, including at least one 400-series full course or equivalent, and no more than 10.0 full courses)

Enrolment in the Specialist program is limited. Students may enrol in their second or third year. To enrol in second year, students must have a) OAC/MCB4U Calculus or equivalent; b) completed 4 full courses; c) obtained at least 80% in PSY 100HI; d) a CGPA of at least 3.0. To enrol in third year, students

must have completed a) OAC/MCB4U Calculus or equivalent; b) a 70% in PSY 100HI; c) PSY 201HI and 202HI (or equivalent); d) four 200-level PSY courses, with an average of at least 73% across all PSY courses (Note that this does not mean 73% in each PSY course); and e) have a CGPA of at least 3.0.

NOTE: The courses include 1.0 courses in Statistics and 8.0 full courses or equivalent in PSY

First Year:

PSY 100HI/100YI

After PSY 100:

1. Statistics: PSY (201HI, 202HI)/ECO 220YI/227YI/GGR 270YI/SOC (202HI, 300HI)/STA (220HI, 221HI)/250HI
2. Two of PSY 210HI, 220HI, 230HI, 240HI (Cluster A), and two of 260HI, 270HI, 280HI, 290HI (Cluster B)
3. Five half-courses at the 300-level from Group I below, with at least one from each of Clusters A and B
4. One of: PSY 319HI/329HI/339HI/369HI/379HI/389HI/399HI
5. Two 400-level seminars from: JLP 471HI/PSY 401HI/410HI/420HI/430HI/440HI/460HI/470HI/471HI/472HI/473HI/480HI/490HI/497HI
6. Three courses (H or Y) at any level taken from Groups I and/or 2 below

#### Major program:

(6.5 full courses or their equivalent, and no more than 7.5 full courses)

Enrolment in the Major program is limited. To enrol, students must have a) OAC/MCB4U Calculus or equivalent; b) completed 4 full courses; c) at least 70% in PSY 100HI/YI; and d) a CGPA of 2.5.

NOTE: The courses include 0.5 courses in Statistics and 6.0 full courses or equivalent in PSY

First Year:

PSY 100HI/100YI

After PSY 100:

1. Statistics: PSY 201HI/ECO 220YI/227YI/GGR 270HI/SOC 202HI/STA 220HI/250HI
2. Two of PSY 210HI, 220HI, 230HI, 240HI (Cluster A), and two of 260HI, 270HI, 280HI, 290HI (Cluster B)
3. Four half-courses at the 300-level from Group I below, with at least one from each of Clusters A and B
4. Three courses (H or Y) at any level taken from Groups I and/or 2 below

#### Minor program:

(4 full courses or their equivalent, and no more than 5.0 full courses)

Enrolment in the Minor program is limited. To enrol, students must have a) OAC/MCB4U Calculus or equivalent; b) completed 4 full courses; c) at least 70% in PSY 100HI; and d) a CGPA of 2.0.

NOTE: The courses include 0.5 courses in Statistics and 3.5 full courses or equivalent in PSY

First Year:

PSY 100HI/100YI

After PSY 100:

1. Statistics: PSY 201HI/ECO 220YI/227YI/GGR 270HI/SOC 202HI/STA 220HI/250HI

# Life Sciences: Psychology

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- At least two of: PSY 210HI/220HI/230HI/240HI/260HI/270HI/280HI/290HI
- At least two half-courses at the 300-level taken from Group 1 below, in any of Clusters A and B
- At least two courses (H or Y) at any level, taken from Groups 1 and/or 2 below

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## Group 1:

### Cluster A:

JLP 315HI/PSY 210HI/220HI/230HI/240HI/300HI/  
301HI/303HI/304HI/311HI/312HI/313HI/314HI/316HI/  
317HI/319HI/320HI/321HI/322HI/323HI/324HI/325HI/  
326HI/327HI/328HI/329HI/330HI/331HI/332HI/333HI/  
334HI/335HI/336HI/339HI/341HI/342HI/343HI/401HI/  
402HI/403HI/404HI/410HI/420HI/430HI/440HI

### Cluster B:

JLP 374HI/471HI/ JZP326HI/428HI/ PSY 260HI/270HI/  
280HI/290HI/300HI/301HI/303HI/304HI/312HI/  
316HI/362HI/369HI/370HI/371HI/372HI/373HI/375H  
I/378HI/379HI/380HI/389HI/390HI/391HI/392HI/393HI/  
394HI/ 396HI/397HI/399HI/402HI/403HI/404HI/460HI/  
470HI/471HI/472HI/473HI/480HI/490HI/497HI

### Note:

Some PSY courses are included in both of Clusters A and B and may count in either cluster, but not both, for program requirements.

## Group 2:

BIO 150YI/252HI/CSB 332HI/ENG 290YI/HIS 498HI/HMB  
200HI/420HI/JLS 474HI/450HI/LIN 100YI/200HI/372HI/  
MGT 262HI/NEW 303HI/372HI/NRS 201HI/202HI/302HI/  
400YI/PCL 475YI/PHL 240HI/243HI/340HI/POL 313YI/PSL  
300HI/301HI/302YI/433HI/440YI/444YI/RLG 211YI/301HI/  
302HI/303HI/421H/TRN 320YI/UNI 250YI/ 370HI/401HI/  
402HI/470HI/WDW 260HI/360HI/365HI

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## Psychology Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all PSY courses are classified as SCIENCE courses (see page 27).

### NOTE:

Students in St. George campus PSY programs will be given first priority to admission for all PSY courses above the 100-level.

Please see the Arts and Science Registration Handbook and Timetable for details.

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### SCII99HI/YI First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

### PSY100HI Introductory Psychology 39L

A brief introductory survey of psychology as both a biological and social science. Topics will include learning, perception, motivation, cognition, developmental, and social psychology.

Exclusion: PSY100YI

Prerequisite: There is no prerequisite for PSY100HI. however an OAC/12U Calculus or equivalent is required to enrol in any

Psychology PROGRAM subsequent to taking PSY100HI.

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## 200-SERIES COURSES

### Note on Prerequisites:

For non-degree, visiting, and transfer students, you MUST bring a photocopy of your transcript(s) to the Undergraduate Advising Office to provide proof to the Department that you meet ALL of the prerequisites of the course(s) in which you are enrolled in. We will NOT allow you to take any of our courses without the proper prerequisites. Furthermore, University of Toronto at Scarborough and University of Toronto at Mississauga students must also have the proper prerequisites for St. George courses, REGARDLESS if they are a Psychology program student at their college campus.

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### PSY201HI Statistics I 39L, 26T

Fundamentals of descriptive and inferential statistics, including population and sampling distributions, simple association, probability, estimation, and hypothesis testing.

Exclusion: ECO220YI/227YI/GGR270HI/SOC202HI/300YI/  
STA220HI/248HI/250HI

Prerequisite: PSY 100YI/HI/UNI 250YI

### PSY202HI Statistics II 39L, 26T

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. Students are introduced to Minitab, a statistical computer program, with which they complete much of their course work.

Exclusion: ECO220YI/227YI/GGR270YI/SOC300YI/  
STA221HI/250HI/JBS229HI

Prerequisite: PSY201HI or equivalent

### PSY210HI Introduction to Development 39L

The developmental approach to the study of behaviour with reference to sensorimotor skills, cognition, socialization, personality, and emotional behaviour.

Prerequisite: PSY 100HI/YI/UNI 250YI

### PSY220HI Introduction to Social Psychology 39L

Contemporary areas of research in social psychology: social perception, attitudes, inter-personal relations, and group processes.

Prerequisite: PSY 100HI/YI/UNI 250YI

### PSY230HI Personality and Its Transformations 39L

Theory and research in personality structure and dynamics: the interaction of cultural and biological factors in the development and expression of individual differences.

Prerequisite: PSY 100YI/HI/UNI 250YI

### PSY240HI Introduction to Abnormal Psychology 39L

A critical survey of concepts, theories, and the state of research in the area of emotionally disturbed persons and therapeutic methods.

Prerequisite: PSY 100HI/YI/UNI 250YI

**PSY260HI Introduction to Learning 39L**

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: PSY 100HI/Y1/UNI 250Y1 or NRS Specialist

**PSY270HI Introduction to Cognitive Psychology 39L**

An introduction to research and theory on the neural and cognitive architecture of attention, memory, language, thinking and reasoning.

Prerequisite: PSY 100Y1/H1/UNI 250Y1 or registered in the Cognitive Science program or NRS Specialist

**PSY280HI Introduction to Perception 39L**

An introduction to the physiological and psychological bases of vision and audition in humans and lower animals. Visual perception of shape and objects, colour, space, and motion. Auditory perception of simple and complex sounds, and location. Demonstrations supplement the lectures.

Prerequisite: PSY 100HI/Y1/UNI 250Y1 or registered in the Cognitive Science program or NRS Specialist

**PSY290HI Physiological Psychology I 39L**

Provides students with a solid background into the biological basis of behaviour. Animal and human research topics including: functional neuroanatomy, neural signalling, sensory and motor control, motivational systems, and hormones, and emotions..

Exclusion: NRS201HI

Prerequisite: PSY 100HI/Y1/UNI 250Y1 or enrolled in the Cognitive Science program, or NRS Specialist

**PSY299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details. Note: This course cannot be used as a PSY program requirement.

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## 300-SERIES COURSES

### Note

Where a stated prerequisite is PSY201HI or 202HI, its equivalent/exclusion is also accepted.

**PSY300HI History of Psychology 39L**

Philosophical predecessors and early development of modern psychology; schools of thought and shifting areas of theory and research. History and philosophy of science, in general. Current systems and theories.

Prerequisite: One full course or equivalent in the PSY200- or 300-series

**PSY303HI/ 304HI Individual Projects TBA**

An intensive laboratory or applied research project under the supervision of a staff member. Will be approved by the Department only when the student and staff member can show that the project is academically demanding and uniquely suitable for the individual student in terms of the rest of the student's

program. Note: Projects spread out over the full academic year are still only worth a half credit.

Prerequisite: PSY202HI and appropriate background for the proposed work

**PSY305HI The Treatment of Psychological Data 39L**

This course emphasizes advanced use of the SAS statistical computer program package for the treatment of psychological data collected in laboratory and field studies. Students analyze sets of data and interpret results. Various methods of ensuring the trustworthiness and accuracy of analysis are discussed.

Prerequisite: PSY202HI

**PSY309HI Research Specialization: Practicum 39L**

Research specialists learn about the research opportunities within our department, and develop their 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. Restricted to Research Specialists.

**PSY311HI Social Development 39L**

Theory and research in social attachment, aggression, morality, imitation and identification, altruism, and parental discipline, with discussion of methodological issues.

Prerequisite: PSY201HI, 210HI/220HI

**PSY312HI Cognitive Development 39L**

Examines the developmental of knowledge in fundamental domains such as spatial perception, navigation, object perception, number, language, and theory of mind. Emphasis is placed on current experimental findings, and on how they address centuries-old debates surrounding the origin and nature of human knowledge.

Prerequisite: PSY201HI, 210HI/270HI/271HI/UNI 250Y1

**PSY313HI Psychology of Aging 39L**

Age changes in sensory and perceptual processes, motor skill, learning, memory, and personality. Theory, methodological problems, social, cultural, and environmental influences which shape behaviour and attitudes to and by the elderly.

Prerequisite: PSY201HI, 210HI

**PSY314HI Moral Development 39L**

Examination of 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: PSY201HI, 210HI

**JLP315HI Language Acquisition 39L**

Infants' abilities at birth, prelinguistic development, the first words, phonological, syntactic and semantic development. Social variables influencing development of language, bilingualism, models of development, language play. (Given by the Departments of Linguistics and Psychology)

Prerequisite: One full course equivalent at the 200-level in JAL/ JUP/LIN/PSL/PSY/UNI Cognitive Science

**PSY316HI Perceptual Development 39L**

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: PSY201HI, 280HI

Recommended preparation: PSY210HI

# Life Sciences: Psychology

## **PSY317HI Aging and Social Cognition 39L**

Examines theory and research in the social cognitive aspect of aging. Topics range from impression formation and causal attributions to perceptions of control and emotions.

Prerequisite: PSY201HI, 220HI

## **PSY319HI Developmental Laboratory 39L**

Provides an overview of developmental psychology methods.

The class conducts an original research project, including design, data collection and analysis, and a written report.

Prerequisite: PSY202HI, 210HI; PSY Specialist or departmental approval

## **PSY320HI Social Psychology: Attitudes 39L**

Intensive study of social attitudes and opinions development, description, measurement, modification, and organization.

Prerequisite: PSY201HI, 220HI

## **PSY321HI Cross-Cultural Psychology 39L**

Human beings develop within local systems of meaning that define what is good and bad, true and false, sacred and profane, beautiful and ugly, significant and insignificant. These inherited systems of meaning - or cultures - define where we stand as persons in relation to others and provide the grounding for what we come to feel, think, and desire as individuals.

This course examines the cultural determination of mindful behaviour.

Prerequisite: PSY201HI, 220HI, 230HI/240HI

## **PSY322HI Intergroup Relations 39L**

An in-depth examination of theories and research in intergroup relations; includes topics like stereotyping, prejudice, and discrimination.

Prerequisite: PSY201HI, 220HI

## **PSY323HI Sex Roles and Behaviour 39L**

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: PSY201HI, 210HI/220HI/230HI

## **PSY324HI Social Psychology of Interpersonal Relationships 39L**

This course focuses on the social psychology of interpersonal relationships between and among 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.

Exclusion: PSY420HI taken in 2002-2003 ONLY

Prerequisite: PSY201HI, 220HI

## **PSY325HI Self-Consciousness 39L**

The distinguishing feature of our species is the reflexivity of our consciousness - the ability to conceive of and interpret ourselves and our experiences. All our higher symbolic capabilities rest upon this foundation. The aim of this multidisciplinary course is to trace out a variety of interpretive frames through which we may look at and better understand self-awareness.

Prerequisite: PSY201HI, 220HI, 230HI/240HI

## **PSY326HI Social Cognition 39L**

An examination of theory and research on how we make sense of ourselves and our social world. Topics covered include goals,

mood, memory, hypothesis testing, counterfactual thinking, stereotypes, and culture.

Prerequisite: PSY201HI, 220HI

## **PSY327HI Psychology of the Mass Media 39L**

This multidisciplinary course examines how we come to know ourselves and our world, and to feel, judge, and act, through the simulative "mediation" of mass communication. The intent is to provide students with greater understanding of the highly commodified symbolic environment that surrounds them and to which they continually respond and react as audience.

Prerequisite: PSY 201HI, 220HI, 230HI/240HI

## **PSY328HI Psychology and the Law 39L**

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: PSY201HI, 220HI

## **PSY329HI Social Psychology Laboratory 39L**

Illustrates major methodologies within social psychology, such as attitude measurement, observation of small groups, and experiments.

Prerequisite: PSY202HI, 220HI; PSY Specialist or departmental approval

## **PSY330HI Psychometrics 39L**

Concepts and methods for the measurement of abilities, interests and personality: reliability, validity, interpretation of test scores, norms, observational methods, structured tests, interview, projective techniques. Ethical problems in assessment. Not a course in test administration.

Prerequisite: PSY201HI, 230HI/240HI Recommended preparation: PSY202HI

## **PSY331HI Social Psychology of Emotion 39L**

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, emotional regulation, expression and experience, the role of emotion in decision-making, and the relationship between emotion, motivation and behaviour.

Prerequisite: PSY201HI, 230HI

## **PSY332HI Organizational Behaviour 39L**

An analysis of the individual, group, and institutional structures and processes that influence behaviour within organizations. Topics include motivation, leadership, communication, school of management theories, group processes and team work, supervision, and organizational culture.

Prerequisite: PSY201HI, 220HI

Exclusion: MGT262HI, WDW260HI

## **PSY333HI Health Psychology 39L**

Examines research evidence concerning the impact of psychological factors on physical health and illness.

Prerequisite: PSY201HI, 230HI/240HI

## **PSY334HI Maps of Meaning: The Architecture of Belief 39L**

Culture appears to have a narrative structure. Animal learning and neuropsychological theory helps us understand how narratives might regulate emotion. Threat of broadscale emotional dysregulation motivates individuals to protect their cultures.

Prerequisite: PSY201HI, 230HI/240HI



## Life Sciences: Psychology

- PSY335HI Environmental Psychology 39L**  
An examination of the interrelationship of humans and their natural and built environments, focusing on psychological and sociocultural factors. Topics include: the self in relation to nature; the perception of environmental change; the effects of natural and built environments on stress and psychological health; understanding consumerism and environmentalism; and the relationship between individuals' experience (i.e., cognitions, emotions, and values) and action relating to environmental issues.  
Prerequisite: PSY201HI, 220HI
- PSY336HI Positive Psychology 39L**  
A review of the field of positive psychology, which is the study of fulfillment and personal growth. The focus is on empirical research regarding the development of healthy, productive, and resilient individuals. Topics include: subjective well-being, optimism, flow experiences, self-control and emotional intelligence, social support and empathy.  
Prerequisite: PSY201HI, 220HI/230HI/240HI
- PSY339HI Individual Differences Laboratory 39P**  
Introduction to methods involved in individual differences or personality research. Group and individual projects focus on assessment of individual difference characteristics and on experimentation including such characteristics.  
Prerequisite: PSY202HI, 230HI/240HI; PSY Specialist or departmental approval
- PSY341HI Psychopathologies of Childhood 39L**  
This course focuses on cognitive and neuropsychological aspects of neurodevelopmental and psychiatric disorders in children from clinical and theoretical perspectives.  
Prerequisite: PSY201HI, 210HI/240HI, one further PSY200/300-series full course or equivalent
- PSY342HI Cognition and Psychopathology 26S, 13T**  
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: PSY201HI, 240HI/270HI
- PSY343HI Theories of Psychopathology and Psychotherapy 39L**  
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: PSY201HI, 230HI/240HI
- PSY362HI Animal Cognition 39L**  
The study of memory, representation, concept learning, and other cognitive processes in non-human animals.  
Prerequisite: PSY201HI, 260HI
- PSY369HI Conditioning and Learning Laboratory 39L**  
Provides hands on experience with some widely used preparations and procedures for studying learning and memory in animals. Reading and writing research in this area are emphasized. Experiments with rats and pigeons are conducted, initially under close supervision.  
Prerequisite: PSY202HI, 260HI; PSY Specialist or departmental approval
- PSY370HI Thinking and Reasoning 39L**  
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: PSY 270HI/UNI 250YI
- PSY371HI Higher Cognitive Processes 39L**  
This course covers selected topics pertaining to higher cognitive processes including expertise, consciousness, creativity, and human and artificial intelligence.  
Prerequisite: PSY270HI/370HI/UNI 250YI
- PSY372HI Human Memory 39L**  
Current theories and data on human memory: processes involved in encoding, storage, and retrieval.  
Prerequisite: PSY201HI, 270HI/UNI 250YI
- PSY373HI Social Cognitive Neuroscience 39L**  
Social cognitive neuroscience is an emerging interdisciplinary field that seeks to integrate theories of social psychology and cognitive neuroscience to understand behavior at three fundamentally interrelated levels of analysis (social, cognitive, and neural). Topics such as self-regulation, cooperation, attitudes, and prejudice will be examined.  
Prerequisite: PSY 201HI, 220HI, 270HI/290HI  
Recommended Preparation: PSY 326HI
- JLP374HI Psychology of Language 39L**  
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. (Given by the Departments of Linguistics and Psychology)  
Prerequisite: One 200-series full course or equivalent in JAL/JUP/LIN/PSY/PSL/UNI Cognitive Science
- PSY375HI Attention and Performance 39L**  
Visual attention; attentional selection for object recognition, feature integration, and action; movements of attention; eye-hand coordination, eye movements, limb movements. Models of attention and motor control.  
Prerequisite: PSY201HI, 270HI/280HI/UNI 250YI
- PSY378HI Engineering Psychology 39L**  
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: PSY201HI, 270HI/280HI/UNI 250YI  
Recommended preparation: PSY202HI
- PSY379HI Memory and Learning Laboratory 39P**  
Exercises and demonstrations, followed by experiments done jointly with other members of the class, and a final individual research project, in the broad area of human learning and memory.  
Prerequisite: PSY202HI, 270HI/UNI 250YI; PSY specialist or departmental approval
- PSY380HI Vision Science 39L**  
Integrates psychology, neuroscience, and computer science approaches to the study of vision science. Topics include: spatial vision; perception of objects, function, and category; motion perception; visual attention, memory, and imagery; and consciousness. Demonstrations/in-class experiments supplement

# Life Sciences: Psychology

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lectures and readings. Important class for psychology, cognitive science, and neuroscience students.

Prerequisite: PSY201HI/MAT135Y1, PSY 280HI

## **PSY389HI Perception Laboratory 39L**

Examination of issues and methods in perception research. Students conduct supervised research projects, and read, critique, and write research articles.

Prerequisite: PSY202HI, 280HI; PSY Specialist or departmental approval

## **PSY390HI Behavioural Genetics 39L**

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: PSY201HI, 290HI/NRS201HI

## **PSY392HI Neurobiology of Learning and Memory 39L**

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 course explores empirical and theoretical contributions to our understanding of the neural basis of learning and memory.

Prerequisite: PSY201HI, 290HI/NRS201HI

## **PSY393HI Cognitive Neuroscience 39L**

The use of higher cortical functions to study cognitive processes in humans and other primates. Some topics to be covered: hemispheric specialization, emotion and the cerebral hemispheres, organization of language after brain damage, amnesia, aging.

Prerequisite: PSY201HI, 270HI/290HI/NRS201HI

## **PSY394HI Physiology and Psychology of Emotion 39L**

The role of brain and body in expression and experience of emotion in humans, considered theoretically and through the experimental, physiological and clinical literatures.

Prerequisite: PSY201HI, 270HI/290HI/NRS201HI

## **PSY396HI Neurochemical Basis of Behaviour 39L**

The functional relevance of neurotransmitters, with particular emphasis on their role in mediating behaviour.

Prerequisite: PSY201HI, 290HI/NRS201HI

Exclusion: PCL 475Y1

## **PSY397HI Biological Rhythms 26L, 13T (formerly JZP326HI)**

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: BIO150Y1/PSY100HIY1, one full or two 200-series half-courses in the Sciences

Exclusion: JZP326HI

## **PSY399HI Psychobiology Laboratory 39L**

An introduction to surgical and experimental methods and research issues in physiological psychology, including anatomical and neurobiological methods and behavioural and genetic analysis. Concentration on innate and learned mechanisms that influence the display of specific behaviours.

Exclusion: NRS302HI

Prerequisite: PSY202HI, 290HI/NRS201HI; PSY specialist or departmental approval

## **PSY398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

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### 400-Series Courses

## **PSY400YI Research Specialization: Thesis TBA**

An individual project done under the direction of a staff member. Lecture and seminar presentations of proposals in the Fall Session.

Prerequisite: Enrolment in PSY Research Specialist program, PSY309HI, PSY3\*9HI (PSY lab course)

## **PSY401HI A Biobehavioural Approach to Psychological Theories and Applications 26L**

In presenting and arguing for this approach the topics covered are sex differences in cognition, and the psychophysiological topics of biofeedback and lie detection. Students are expected to critically evaluate the approach, and argue for their own.

Prerequisite: PSY201HI and two additional courses at the 200-level

## **PSY402HI/ Psychology Seminar 26S 403HI/ 404HI**

Examination in depth of specific topics in psychology. These seminars vary from year to year in terms of the number given, the topics, and the restrictions on enrollment. Consult the departmental Calendar for details.

## **PSY409HI Research Specialization: Theoretical Foundations 26S**

This seminar 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.

Prerequisite: Enrolment in the PSY Research Specialist program, PSY 309HI

## **PSY410HI Developmental Psychology Seminar 26S**

Examination in depth of a limited topic within developmental psychology. Content in any given year depends on instructor.

Prerequisite: PSY202HI, 210HI; PSY Specialist or permission of department

## **PSY420HI Social Psychology Seminar 26S**

Examination in depth of a limited topic within social psychology. Content in any given year depends on instructor.

Prerequisite: PSY202HI, 220HI; PSY Specialist or permission of department

**PSY430HI Personality Seminar 26S**

Examination in depth of a limited topic within the area of personality. Content in any given year depends on instructor.  
Prerequisite: PSY202HI, 230HI/240HI, PSY Specialist or permission of department

**PSY440HI Abnormal Psychology Seminar 26S**

Examination in depth of a limited topic within abnormal psychology. Content in any given year depends on instructor.  
Prerequisite: PSY202HI, 230HI/240HI, PSY Specialist or permission of department

**PSY460HI Learning Seminar 26S**

Examination in depth of a limited topic in learning. Content in any given year depends on instructor.  
Prerequisite: PSY260HI; an additional 300-level half-course in the 350-, 360-, or 370-series or permission of instructor; PSY Specialist or permission of department

**PSY470HI Memory Seminar 26S**

Examination in depth of limited topics within the area of memory. Content in any given year depends on instructor.  
Prerequisite: PSY270HI/UNI 250YI, PSY Specialist or permission of department

**JLP471HI Advanced Psycholinguistics 26S**

Seminar in advanced topics in psycholinguistics. Content varies from year to year. (Given by the Departments of Linguistics and Psychology)  
Prerequisite: JLP374HI, LIN322HI/331HI

**PSY471HI Cognition Seminar 26S**

Examination in depth of a limited topic in cognition. Content in any given year depends on instructor.  
Prerequisite: (PSY270HI/280HI), (PSY371HI/375HI/380HI), PSY Specialist or permission of department

**PSY480HI Seminar in Vision Science 26S**

An in-depth examination of current issues in vision science (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.  
Prerequisite: PSY270HI, PSY280HI, 37\*H/38\*H, PSY393HI, PSY Specialist or permission of department

**PSY490HI Brain Activity & Behaviour Seminar 39S**

The relationship between behaviour and the activity of neurons; examples from sensory, motor, motivational, and higher cortical systems. Electrical stimulation and recording techniques.  
Prerequisite: PSY202HI, 290HI/NRS201HI

**PSY497HI Advanced Topics in Biological Rhythms (formerly JZP428HI) 26S**

Circadian rhythms with emphasis on non-photoc entrainment and phase shifting of rhythms by behaviour (e.g., social interactions, or becoming active). Properties and physiological mechanisms for non-photoc effects and comparisons with those for photic effects. Seminars and readings of original papers. Emphasis on basic principles, but possible applications will also be discussed.  
Prerequisite: JZP326HI/PSY397HI  
Exclusion: JZP428HI

# Life Sciences: Zoology

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The departments of Botany and Zoology were disestablished as of July 1, 2006, and its faculty, programs, and courses have become part of the new departments of Cell & Systems Biology (CSB), and Ecology & Evolutionary Biology (EEB). The Biology, Botany, and Zoology programs are listed under Biology. Please see the sections for CSB and EEB in this Calendar for information concerning their programs and courses.

## **Joint Programs (see Biology)**

Biology

Botany

Zoology

## **Cell & Systems Biology Programs**

Cell Biology

Comparative Animal Physiology

Developmental Biology

Molecular Plant Biology

## **Ecology & Evolutionary Biology Programs**

Behaviour

Ecology

Ecology & Evolutionary Biology

Environmental Biology

Evolutionary Biology

## Faculty

### Professors Emeriti

B. Brainerd, MS, PhD  
J.K. Chambers, MA, PhD  
H.E. Rogers, M Ed, MA, PhD  
P.A. Reich, MS, PhD  
T.Venkatacharya, MA, Vyakarana Siromani  
R.Wardhaugh, MA, PhD

### Professor and Chair of the Department

TBA

### Associate Chair and Graduate Coordinator

TBA

### Undergraduate Coordinator

TBA

### Professors

E.A. Cowper, AM, PhD  
B.E. Drescher, BA, PhD  
D. Massam, MA, PhD  
K.D. Rice, MA, PhD

### Associate Professors

A. Johns, MA, PhD  
A.T. Pérez-Leroux, MA, PhD  
R. Smyth, M Sc, Ph D  
S.A. Tagliamonte, MA, PhD

### Assistant Professor

M.C. Cuervo, MA, PhD  
M. Ippolito, MA, PhD  
Y. Kang, PhD

### Adjunct Professor

M.L. Chasin, M Sc, AuD

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.

The Department offers programs in Linguistics, as well as combined programs with language departments and with Philosophy, as shown in the Programs of Study.

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 enroll 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, and Philosophy, and in the Cognitive Science and Artificial Intelligence program.

Students seeking counselling and information should contact the Undergraduate Coordinator, TBA, (416-978-1760).

## Linguistics Programs

Enrolment in the Linguistics programs requires the completion of four courses; no minimum GPA required.

### Linguistics (Arts program)

#### Specialist program:

(12 full courses or their equivalent)

First Year:

LIN 100Y1

Second Year:

LIN 228H1, 229H1, 231H1, 232H1

Second, Third and Fourth Years:

1. Two years of study or its equivalent of one non-Germanic, non-Romance language in courses using the spoken language (courses must be approved by the Undergraduate Co-ordinator)
2. LIN 322H1, 331H1, JAL 401H1
3. Further courses (excluding LIN 200H1, 265Y1, and 365Y1) to bring the total number of courses up to 12 FCE. These courses must be LIN/JAL/JFL/JLP/JLS courses except that up to one full course may be chosen from the following list (please consult the Department of Linguistics): ANT 329Y1, 425H1, 427H1; CSC 384H1, 485H1; FIN 220H1; FRE 272Y1, 273Y1, 376H1, 378H1, 384H1, 386H1, 387H1, 389H1, 471H1, 479H1, 489H1; GER 400H1, 426H1; GGR368H1; HPS 250H1; ITA 360H1, 361H1, 363H1, 364H1, 430H1; UNI 250Y1; PHL 210Y1, 245H1, 325H1, 326H1, 340H1; 342H1, 345H1, 351H1, 355H1, 451H1; SLA 430Y1, 438H1, 439H1, 452Y1, 456H1; SPA322H1, 421H1, 422H1, 425H1
4. Of the courses chosen in 3 above, at least 2.5 FCE must be at the 300+ level and 0.5 at the 400-level

#### Major program:

(7 full courses or their equivalent)

First Year:

LIN 100Y1

Second Year:

LIN 228H1, 229H1, 231H1, 232H1

Third and Fourth Years:

Four FCE's in LIN/JAL/JFL/JLP/JLS (excluding LIN 200H1) at least two of which must be at the 300+ level

#### Minor program:

(4 full courses or their equivalent)

1. LIN 100Y1
2. Three FCE's in LIN/JAL/JFL/JLP/JLS (excluding LIN 200H1) at least one of which must be at the 300+ level

# Linguistics

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## **Linguistics and Languages (Arts program)**

Consult the Department of Linguistics and of the Language chosen.

### **Combined Specialist program:**

(13 or 14 courses or their equivalent)

#### **Linguistics**

The Linguistics component of all these Programs is as follows:

First Year:

LIN 100Y1

Second Year:

LIN 228H1, 229H1, 231H1, 232H1

Third and Fourth Years:

Four FCE's in LIN/JAL/JFL/JLP/JLS (excluding LIN 200H1), at least 1 of which must be at the 400 level, and 2 at the 300+ level (LIN 362H1 specially recommended)

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The Language component is six or seven courses or their equivalent in the language chosen as follows:

#### **English**

(7 courses)

Only **one** 100-series ENG/JEF course may be counted toward program requirements. ENG 100H1, ENG 185Y1, HUM 199Y1, JEM204H1, JUM204H1 may not be counted.

**Seven** ENG/JEF courses or their equivalent, fulfilling the following requirements:

1. ENG285H1 & ENG385H1
2. At least **1** full-course equivalent from Group 2 (Canadian and Indigenous North American Literatures)
3. At least **.5** full-course equivalent from Group 3 (American and Transnational Literatures)
4. At least **2** full-course equivalents from Group 4 (British Literature to the 19th Century), ENG240Y1 and ENG300Y1 specially recommended
5. At least **.5** full-course equivalent from Group 5 (Literature Since the 18th Century)

#### **French**

(7 courses or their equivalent)

Same as the Major program in French Language and French Linguistics. For details, please see the Department of French program listings.

#### **German**

(6 full courses or their equivalent)

First Year:

GER 100Y1/200Y1/(200H1, 201H1)

Second Year:

GER 200Y1/(200H1, 201H1); 300Y1/(300H1, 301H1)

Third and Fourth Years:

1. GER 300Y1/(300H1, 301H1, 400H1)
2. The remainder of the six courses or equivalent must have a GER designator.

#### **Italian**

(7 courses or their equivalent)

First Year:

ITA 100Y1/101Y1/102Y1/(133H1, 134H1)/152Y

Second Year:

ITA 250Y1/251Y1/252Y1/253Y1

Third and Fourth Years:

1. ITA 360H1, 430H1
2. 4.0 additional FCE ITA language and linguistics courses at the 300/400-levels

#### **Spanish and Portuguese**

(6.5 courses or their equivalent)

Spanish and Portuguese may also be taken in this Program. Interested students should consult the Department

#### **Slavic Languages**

Slavic Languages may also be taken in this Program. Interested students should consult the Department.

## **Linguistics and Computing (Science program)**

### **Specialist program:**

(15.5 full courses or their equivalent with at least one full course at the 400-level)

#### **Linguistics Component (7 FCE's)**

First Year

LIN100Y1

Second Year

LIN 228H1, 229H1, 231H1, 232H1

Higher Years

1. 2.5 FCE's chosen from LIN322H1, 323H1, 331H1, 341H1, 481H1; JLP315H1, 374H1
2. 1.5 additional FCE's in LIN/JAL/JFL/JLP/JLS (excluding LIN200H1) at least 1.0 of which must be at the 300+ level

Recommended preparation: At least one year's study (or equivalent) at university level of a non-English language

#### **Computing Component (7.5 FCE's)**

First Year

CSC 165H1/240H1 (108H1, 148H1)/150H1; MAT 137Y1/157Y1

Second Year

CSC 207H1, 236H1/240H1, 263H1/265H1; MAT 223H1; STA 247H1/257H1

Higher Years

1. CSC 258H1, 324H1, 401H1, 485H1
2. 1.0 additional FCE's in CSC, chosen from: CSC 343H1, 363H1/365H1, 373H1/375H1, 384H1, 428H1, 486H1

**NOTE: Students in this program must also qualify for, and be registered in the Major program in Computer Science**

## **Linguistics and Philosophy (Arts program)**

Consult Departments of Philosophy and Linguistics.

### **Specialist program:**

(14 full courses or their equivalent with one full course at the 400-level)

#### **Linguistics**

(7 courses)

First Year:

LIN 100Y1

Second Year:

LIN 228H1, 229H1, 231H1, 232H1

Third and Fourth Years:

Four FCE's in LIN/JA/JFL/JLP/JLS (excluding LIN 200H1); at least 1 must be at the 400 level and 2 must be at the 300+ level (LIN 331H1, 481H1 specially recommended)

## Philosophy (7 courses)

1. PHL 210Y1, 245HI, 351HI
2. Five additional PHL courses, at least three at the 300-level. The following courses are particularly recommended: HPS 250HI; UNI 250Y1; PHL 325HI, 326HI, 340HI, 342HI, 345HI, 347HI, 351HI, 355HI, 451HI

## Linguistics Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), LIN courses are classified as HUMANITIES or SOCIAL SCIENCE courses; check individual course listings below.

### HUM199HI/YI First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a Humanities course; see page 47..

### LIN100YI Introduction to General Linguistics 52L, 26T

Lectures on fundamental principles with illustrations from English and from a broad spectrum of other languages. Practice in elementary analytic techniques.

This is a Humanities course

### LIN200HI Introduction to Language 26L 13T

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 cannot be used as an entrance to programs in linguistics, and cannot be used as a prerequisite to any linguistics courses unless otherwise indicated.)

Exclusion: LIN100Y1

This is a Humanities course

### LIN201HI Canadian English 26L

A study of the structures of several dialects of English spoken in Canada, and of their history and affiliations. (Not offered every year)

Prerequisite: LIN 100Y1/200HI

This is a Humanities course

### LIN203HI English Words 26L

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.

Exclusion: LIN202Y1

This is a Humanities course

### LIN204HI English Grammar 26L

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.

Exclusion: LIN202Y1

This is a Humanities course

### LIN205HI East Asian Languages and English 26L

The course is a linguistic exploration of issues that arise as English comes into contact with three major East Asian

Languages (Chinese, Japanese, and Korean). Topics include a comparative introduction to the basic structures of the languages, writing systems, transformations English words undergo when borrowed into these Asian languages, and typical mistakes made by ESL speakers of East Asian linguistic background.

Exclusion: HUM199HI/Y1Y, L024I (2005-2006)

This is a Humanities course

### LIN228HI Phonetics 26L, 13T

Investigation of the sounds most commonly used in languages from an articulatory and acoustic point of view, with practice in their recognition and production.

Recommended preparation: LIN100Y1/200HI

This is a Humanities course

### LIN229HI Sound Patterns in Language 26L, 13T

The nature and organization of phonological systems, with practical work in analysis.

Prerequisite: LIN100Y1, 228HI

This is a Humanities course

### LIN231HI Morphological Patterns in Language 26L, 13T

The nature and organization of morphological systems, with practical work in analysis.

Prerequisite: LIN100Y1

This is a Humanities course

### LIN232HI Syntactic Patterns in Language 26L, 13T

The nature and organization of syntactic systems; their relation to semantic systems and the linguistic organization of discourse; practical work in analysis.

Prerequisite: LIN100Y1

This is a Humanities course

### LIN241HI Introduction to Semantics 26L, 13T

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: LIN100Y1

This is a Humanities course

### LIN256HI Sociolinguistic Patterns in Language 26L, 13T

An introduction to 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: LIN100Y1

This is a Humanities or Social Science course.

### LIN299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details.

### LIN305HI Quantitative Methods in Linguistics 39L

Principles of research design, data collection, and a wide variety of statistical techniques for research in various subfields of linguistics.

Prerequisite: LIN100Y1 and one full course in LIN/JAL/JFL/JLP

This is a Social Science course

# Linguistics

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**LIN306HI Language Diversity and Language Universals 26L**

This 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 range of variation in order to uncover language universals. (Not offered every year)

Prerequisite: LIN231HI, 232HI

This is a Humanities course

**JLP315HI Language Acquisition 39L**

Infants' abilities at birth, prelinguistic development, the first words, phonological, syntactic and semantic development. Social variables influencing development of language, bilingualism, models of development, language play. (Given by the Departments of Linguistics and Psychology)

Prerequisite: One full course equivalent at the 200-level in LIN/JAL/JUP/PSL/PSY/UNI Cognitive Science

This is a Science course

**LIN322HI Phonological Theory 39L**

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: LIN229HI

This is a Humanities course

**LIN323HI Acoustic Phonetics 26L**

Introduction to acoustics, with particular reference to the vocal tract; acoustic properties of speech; instrumental techniques for speech analysis.

Exclusion: LIN321HI

Prerequisite: LIN228HI

This is a Science course

**JAL328HI Writing Systems 26L**

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)

Prerequisite: ANT100Y1/LIN100Y1/200HI

This is a Social Science course

**LIN331HI Syntactic Theory 39L**

An introduction to the foundations and formal framework of current generative grammar, concentrating on Chomsky's Minimalist theory. (Students who want to pursue graduate studies in linguistics are strongly advised to include this course in their program.)

Prerequisite: LIN232HI

This is a Humanities course

**LIN341HI Semantic Theory 39L**

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: LIN232HI

This is a Humanities course

**JAL355HI Language and Gender 26L**

Ways in which women and men differ in their use of language and in their behaviour in conversational interaction; ways in which language reflects cultural beliefs about women and men. (Given by the Departments of Anthropology and Linguistics)

Prerequisite: Two full course equivalents at the 200-level in LIN/ANT/JAL/SOC

Recommended preparation: ANT204Y1/JAL253HI/254HI/NEW261Y1/SOC200Y1/202Y1/214Y1/215Y1

This is a Social Science course

**LIN356HI Language Variation and Change: Theory and Analysis 39L**

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: LIN256HI

This is a Humanities or Social Science course

**LIN362HI Historical Linguistics 39L**

An introduction to diachronic linguistics. Theories of language change; the comparative method, internal reconstruction, linguistic geography, the origin of languages; language death. (Not offered every year)

Prerequisite: LIN229HI

This is a Humanities course

**JLP374HI Psychology of Language 39L**

Experimental approaches to the comprehension and production of languages. Topics include perception of speech sounds, storage and retrieval of words from the mental lexicon, processing of grammatical information, discourse comprehension and memory, models of language production, and the role of cognitive and perceptual systems. (Given by the Departments of Linguistics and Psychology)

Prerequisite: One full course equivalent at the 200-level in LIN/JAL/JUP/PSY/PSL/UNI Cognitive Science

This is a Science course

**LIN398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**JAL401HI Field Linguistics 52P**

Practice in language analysis based on elicited data from a native speaker of a foreign language, emphasizing procedures and techniques. (Given by the Departments of Anthropology and Linguistics) (Students who want to pursue graduate studies in linguistics are strongly advised to include this course in their program.)

Prerequisite: Completion of LIN231HI, 322HI, 331HI, except for students in their final year where LIN331H/332HI is a corequisite.

This is a Social Science course

**LIN409HI Structure of a Specific Language 26L**

Topics may include: the phonological, morphological, syntactic, and semantic systems; the writing system; a brief diachronic sketch; variation and sociolinguistic aspects. (Not offered every year).

Prerequisite: LIN228HI, 229HI, 231HI, 232HI + 1 FCE at the 300+ level in LIN/JAL/JFL/JLP/JLS





# Materials Science

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## A Collaborative Program of the Faculty of Arts & Science and the Faculty of Applied Science & Engineering

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.

Applied Science: Materials, MSE 101HI, 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 coordinators listed in the Materials Science Program section below. For further information on materials courses from the Faculty of Applied Science and Engineering, consult the Undergraduate Student Counsellor.

Undergraduate Counsellor: Professor U. Erb, Department of Materials Science and Engineering Science, Wallberg Building, Room 140 (416-978-7308)

## Materials Science Programs

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### Materials Science (Science program)

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Consult Professor Eugenia Kumacheva, Department of Chemistry and Professor U. Erb, Department of Metallurgy and Materials Science.

Enrolment in this program requires completion of four courses; no minimum GPA required.

### Specialist program:

(13 full courses or their equivalent, including at least one 400-series course)

NOTE: The program consists of a core curriculum and electives. By suitably choosing electives, students follow one of two streams: 1.) Materials Chemistry, or 2.) Materials Science and Engineering. See Notes 1, 2 and 3 below.

### Core Curriculum:

First Year:

CHM 151Y1/(138HI, 139HI); MAT 135Y1/137Y1; PHY 138Y1/140Y1

Second Year:

MSE 101HI; CHM 225Y1/238Y1, 247HI/249HI

Third and Fourth Years:

1. CHM 325HI, 434HI
2. Two of: CHM (326HI/328HI, 327HI)/338HI/(343HI/346HI)/348HI
3. Three MSE half-courses
4. Further 300/400-level full course equivalents in CHM/MSE/CHE to make a total of 13 full courses.

### Notes:

1. Materials Chemistry Stream:
  - a. Introduction to Research: select one of CHM 409Y1/418Y1/428Y1/439Y1/449Y1
  - b. Stream Electives: select two of MSE 217HI/330HI/430HI/CHM 426HI, 441HI
  - c. Student programs must include at least one full course equivalent from among the Materials courses of the Faculty of Applied Science and Engineering.
2. Materials Science and Engineering Stream:
  - a. Thesis: MSE 499Y1
  - b. Stream Electives: select two of MSE 202HI/217HI/230HI\*/231HI\*/316HI/330HI/430HI/CHE 461HI/463HI
  - c. Student programs must include at least four full course equivalents from among the Materials courses of the Faculty of Applied Science and Engineering.  
\* Combined course of MSE 230HI and MSE 231HI. Please see the course description.

### Additional Notes:

3. Students may also select elective courses which satisfy the core curriculum requirements listed above but which do not correspond to either of the listed streams. Such students should consult Professor Eugenia Kumacheva (Chemistry) and Professor U. Erb (Materials Science and Engineering) before enrolling in elective courses.

## Materials Science Courses

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See page 33 for Key to Course Descriptions..

For Distribution Requirement purposes (see page 27), all MSE and CHE courses are classified as Science courses.

### Notes

1. The MSE and CHE 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 and examination periods.
2. The CHM courses listed for the Materials Science program are described in the Chemistry section of this Calendar.

### MSE101HI Materials Science 39L, 20P, 20T

An introductory course in applied science examining the fundamentals of atomic structure, quantum physics, the nature and bonding in materials, chemical and phase equilibria in the gaseous, liquid and solid state reactive kinetics. The course examines the application of these basic principles in exploring the mechanical, electrical and optical properties of materials through the establishment of structure-property relationships. Prerequisite: OAC/Grade 12 U Chemistry, Physics, and Calculus

### MSE207HI Structure and Characterization of Materials 39L, 20P, 13T

The theoretical and experimental interpretation of the structure of various inorganic materials. Crystalline and

amorphous materials in terms of electronic structure of atoms, atomic bonding, atomic coordination and packing. An introduction to defects in crystals. Experimental techniques include: optical and electron microscopy, X-ray diffraction, Auger electron spectroscopy, X-ray photoelectron spectroscopy and secondary-ion mass spectrometry.  
Recommended preparation: MSE101H1

## **MSE314H1 Kinetics and Reactor Design 39L, 26T**

The course covers factors affecting the speed of chemical reactions, including the theory of reaction rates, reaction orders, activation energy, homogeneous and heterogeneous reactions, catalysts. Analysis of mixed reaction control for gas-solid and liquid-solid systems. The effects of particles size, temperature and fluid flow conditions on the rate of mass transfer and chemical reaction rates. Modes and kinetics of sintering. The course will conclude by an analysis of various types of industrial reactors including batch, plug flow, counter flow and continuous mixed reactors and how the shape and mode of operation affect the rate and completion of reactions. Examples include fluidized bed reactors, shaft furnaces, rotary kilns and converters.

## **MSE315H1 Materials Degradation 39L, 20P, 26T and Corrosion**

Thermodynamics of material-electrolyte systems, Nernst equation and Pourbaix diagrams, and rate theory through activation and concentration polarization. Corrosion of metallic, polymeric, ceramic, composite, electronic and bio-materials, and mechano-chemical effects of stress corrosion, hydrogen embrittlement and corrosion fatigue. Corrosion prevention in design and the use of expert systems in materials selection.

## **MSE316H1 Mechanical Behaviour 39L, 20P, 13T of Materials**

The mechanical behaviour of engineering materials including metals, alloys, ceramics and polymeric materials. 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.

## **MSE318H1 Phase Transformations 39L, 20P, 13T**

Thermodynamics and phase stability. Phase transformations in unary systems: primary crystallization, crystallization of amorphous materials, recrystallization. Phase transformations in binary systems: solidification, precipitation from solid solution, binary invariant reactions. Diffusional transformations, nucleation and growth, diffusionless or martensitic transformations. Second order transformations. Spinodal, massive and order-disorder transformations.

## **MSE319H1 Fracture and Failure Analysis 39L, 13T**

Nature of brittle and ductile fracture, macro-phenomena and micro-mechanisms of failure in various material types, mechanisms of fatigue failure: crack nucleation and propagation, Griffith theory, stress field at crack tips, stress intensity factor and fracture toughness, crack opening displacement, energy principle and the J-integral, fracture mechanics in fatigue, da/dN curves and their significance. Fatigue analysis and fundamentals of non-destructive testing.

Prerequisite: MSE316H1

## **CHM325H1 Introduction to Inorganic and Polymer Materials Chemistry**

See "Chemistry"

## **MSE330H1 Introduction to Polymer Engineering 39L, 13T**

Introduction to polymer synthesis, structure, characterization and mechanical properties. Topics include addition and condensation polymerization, network polymerization and crosslinking, molecular mass distribution and characterization, crystalline and amorphous structure, glass transition and crystalline melting, forming and additives for commercial plastics, dependence of mechanical properties on structure, viscoelasticity, yielding and fracture.

## **MSE401H1 Materials Selection & Design 39L, 39T**

Selection and design of engineering materials, allowing the most suitable materials for a given application to be identified from the full range of materials and section shapes available. Case studies to illustrate a novel approach employing materials selection charts which capture the important properties of all engineering materials, allowing rapid computer retrieval of information.

## **MSE420H1 Biomaterials 26L, 26T**

Materials for surgical implants. Influence of mechanical, chemical and physical properties of metals, ceramics and polymers as well as interactions at the implant-tissue interface. Materials for use in orthopaedic, dental and cardiovascular applications.

## **MSE430H1 Electronic Materials 26L, 39T**

Material parameters and electronic properties of semiconductors. The material parameters are discussed in terms of the preparation and processing methods and the required electronic properties of engineering devices. Some techniques for evaluating electronic properties are discussed.

## **CHM434H1 Advanced Materials Chemistry**

See "Chemistry"

## **CHE461H1 Chemical Properties of Polymers 39L, 13T**

Structure-property relationships in metals, ceramics, polymers, with an emphasis on composite materials. Creep, fracture toughness and corrosion of each class of material. Use of special alloys, advanced ceramics and fibre reinforced composites to meet unique performance requirements.

## **CHE463H1 Polymer Science & Engineering 39L, 12T**

The effect of processing on polymer properties using a case study approach. Properties to be examined include molecular, physical, mechanical and flow behaviour, while processing examples include polymerization of methyl methacrylate, reactive extrusion of polyethylene, blending of polyethylene with polypropylene, micro-encapsulation by spray drying and recycling of waste plastics.

Prerequisite: MSE330H1

## **MSE499Y1 Thesis 156P**

An experimental research topic in materials science and engineering involving original work normally related closely to the current research of a departmental staff member. The final grade is based on two oral presentations, a progress report on the Fall Term work, a poster presentation and a written dissertation.

Exclusion: CHM409Y1/418Y1/428Y1/439Y1/449Y1/MSE490H1

Prerequisite: Any 300/400-series MSE half course and permission of the Department

# Mathematics

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## Faculty

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### Professors Emeriti

M.A. Akcoglu, M Sc, Ph D, FRSC  
E.J. Barbeau, MA, Ph D (U)  
B. Brainerd, MS, Ph D  
H.C. Davis, MA, Ph D (N)  
E.W. Ellers, Dr Rer Nat  
L.T. Gardner, MA, Ph D (U)  
P.C. Greiner, MA, Ph D, FRSC  
I. Halperin, MA, Ph D, FRSC  
S. Halperin, M Sc, Ph D, FRSC  
W. Haque, MA, Ph D FRSC  
V. Jurdjevic, MS, PhD  
I. Kupka, AM, Ph D, Dr ès Sc M  
D.R. Masson, M Sc, Ph D (U)  
J. McCool, B Sc, Ph D  
K. Murasugi, MA, D Sc, FRSC  
K.B. Ranger, B Sc, Ph D, FRSC  
P.G. Rooney, B Sc, Ph D, FRSC  
W.V. Sawyer, MA  
D.K. Sen, M Sc, Dr ès Sc  
R.W. Sharpe, MA, Ph D (UTSC)  
F.A. Sherk, M Sc, Ph D (U)  
S.H. Smith, B Sc, Ph D

### Professor and Chair of the Department

J. Bland, M Sc, Ph D

### Professor and Associate Chair

R. McCann, B Sc, Ph D

### Professor and Associate Chair

J.W. Lorimer, M Sc, Ph D (U)

### University Professors

J.G. Arthur, MA, Ph D, FRSC, FRS  
J. Friedlander, MA, Ph D, FRSC (UTSC)  
I.M. Sigal, BA, Ph D, FRSC

### Professors

D. Bar-Natan, B Sc, Ph D  
E. Bierstone, MA, Ph D, FRSC  
T. Bloom, MA, Ph D, FRSC  
R.-O. Buchweitz, Dipl Maths, Dr Rer Nat (UTSC)  
M.D. Choi, MA, Ph D, FRSC  
A. del Junco, M Sc, Ph D  
G. Elliott, B Sc, Ph D, FRSC  
G. Forni, B Sc, Ph D  
M. Goldstein, B Sc, Ph D (UTSC)  
I.R. Graham, B Sc, Ph D (UTM)  
V. Ivrii, MA, Ph D, Dr Math, FRSC  
L. Jeffrey, AB, Ph D (UTSC)  
R. Jerrard, B Sc, Ph D  
Y. Karshon, B Sc, Ph D (UTM)  
K. Khanin, M Sc, Ph D (UTM)  
B. Khesin, M Sc, Ph D  
A. Khovanskii, M Sc, Ph D  
H. Kim, B Sc, Ph D  
S. Kudla, B A, MA, Ph D

M. Lyubich, B Sc, Ph D  
E. Meinrenken, B Sc, Ph D  
E. Mendelsohn, M Sc, Ph D (UTSC)  
G. Mikhalkin, BA, Ph D  
P. Milman, Dipl Maths, Ph D, FRSC  
F. Murnaghan, M Sc, Ph D  
K. Murty, B Sc, Ph D, FRSC  
A. Nachman, B Sc, Ph D  
C. Pugh, B Sc, Ph D  
J. Quastel, M Sc, Ph D  
J. Repka, B Sc, Ph D (U)  
P. Rosenthal, MA, Ph D, LLB  
L. Seco, BA, Ph D (UTM)  
P. Selick, B Sc, MA, Ph D (UTSC)  
M. Shub, AB, Ph D  
C. Sulem, M Sc, Dr D'Etat  
F.D. Tall, AB, Ph D (UTM)  
S. Todorovic, B Sc, Ph D  
W.A.R. Weiss, M Sc, Ph D (UTM)

### Associate Professors

A. Burchard, B Sc, Ph D  
J. Colliander, BA, Ph D  
V. Kapovitch, B Sc, Ph D  
A. Nabutovsky, M Sc, Ph D  
M. Pugh, B Sc, Ph D  
J. Scherk, D Phil (UTSC)  
S.M. Tanny, B Sc, Ph D (UTM)  
M. Yampolsky, B Sc, Ph D (UTM)

### Assistant Professors

S. Arkhipov, B Sc, Ph D  
I. Binder, B Sc, M Sc, Ph D (UTM)  
V. Blomer, B Sc, Ph D (UTM)  
A. Butscher, B Sc, Ph D (UTSC)  
K. Hori, B Sc, Ph D  
K. Kaveh, B Sc, Ph D  
R. Ponge, B Sc, M S, Ph D  
R. Rotman, BA, Ph D  
B. Szegedy, B Sc, Ph D  
B. Virag, BA, Ph D (UTSC)

### Senior Lecturers

S. Abou-Ward, M Sc  
D. Burbulla, B Sc, B Ed, MA  
A. Igelfeld, M Sc (W)  
A. Lam, M Sc  
F. Recio, M Sc, Ph D

### Lecturers

S. Homayouni, B Sc, Ph D  
E.A.P. LeBlanc, MA, Ph D  
S. Uppal, M Sc

### Tutors

P. Kergin, M Sc, Ph D  
J. Tate, B Sc, B Ed

Mathematics teaches you to think, analytically and creatively. It is a foundation for advanced careers in a knowledge-based economy. Students who develop strong backgrounds in

mathematics often have distinct advantages in other fields such as physics, computer science, economics, and finance.

The past century has been remarkable for discovery in mathematics. From space and number to stability and chaos, mathematical ideas evolve in the domain of pure thought. But the relationship between abstract thought and the real world is itself a source of mathematical inspiration. Problems in computer science, economics and physics have opened new fields of mathematical inquiry. And discoveries at the most abstract level lead to breakthroughs in applied areas, sometimes long afterwards.

The University of Toronto has the top mathematics department in Canada, and hosts the nearby Fields Institute (an international centre for research in mathematics). The Department offers students excellent opportunities to study the subject and glimpse current research frontiers. The Department offers three mathematical Specialist programs - Mathematics, Applied Mathematics, Mathematics and its Applications - as well as Major and Minor programs and several joint Specialist programs with other disciplines (for example, with Computer Science, Economics, Philosophy, Physics and Statistics).

The Specialist program in Mathematics is for students who want a deep knowledge of the subject. This program has been the main training-ground for Canadian mathematicians. A large proportion of our Mathematics Specialist graduates gain admission to the world's best graduate schools.

The Specialist program in Applied Mathematics is for students interested in the fundamental ideas in areas of mathematics that are directed towards applications. The mathematics course requirements in the first two years are the same as in the Mathematics Specialist program; a strong student can take the courses needed to get a degree in both Specialist programs.

These programs are challenging, but small classes with excellent professors and highly-motivated students provide a stimulating and friendly learning environment.

The Specialist program in Mathematics and its Applications is recommended to students with strong interests in mathematics and with career goals in areas such as teaching, computer science, the physical sciences and finance. The program is flexible; there is a core of courses in mathematics and related disciplines, but you can choose among several areas of concentration. The mathematics courses required for the program are essentially the same as those required for a Major in Mathematics. (They are less intense than the courses required for the Specialist programs above.) If you are interested in mathematics and are contemplating a double Major in Mathematics and in another discipline (let us take Computer Science, as an example), you should consider the advantages of fulfilling the requirements for a Specialist degree in Mathematics and its Applications with a computer science concentration. In this way, you can also get a Major in Computer Science; the difference in course requirements with a double major is that, among the courses you can choose for a Computer Science Major, you will be required to take some of a more mathematical nature. You might even consider choosing your options to fulfil the requirements for a double Specialist degree, in both Mathematics and its Applications and in the other discipline.

The Professional Experience Year program ("PEY": see index) is available to eligible, full-time Specialist students after their second year of study. The PEY program is an optional 16 month work term providing industrial experience; its length often allows students to have the rewarding experience of initiating and completing a major project.

The Department operates a non-credit summer course, PUMP, limited to students admitted to the University. It is designed for students who require additional pre-university mathematics background. Details can be found at [www.math.utoronto.ca/pump](http://www.math.utoronto.ca/pump)

Associate Chair for Undergraduate Studies: Professor J.W. Lorimer, Bahen Building, 40 George Street, Room 6290 (416-978-5164)

Student Counselling: Bahen Building, Room 6166

Mathematics Aid Centres: Sidney Smith Hall, Room 1071; University College, Room UC48

Departmental Office: Bahen Building, Room 6290 (416-978-3323)

## **Mathematics Programs**

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Enrolment in the Mathematics programs requires completion of four courses; no minimum GPA is required.

### **Applied Mathematics (Science program)**

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Consult Professor J.W. Lorimer, Associate Chair, Department of Mathematics

#### **Specialist program:**

(13 full courses or their equivalent, including at least one 400-series course)

First Year:

MAT 157Y1, 240H1, 247H1, CSC148H1/150H1

Second Year:

MAT257Y1, 267H1; CSC260H1; STA 257H1

Third and Fourth Years:

1. APM 351Y1; MAT 327H1, 354H1, 347Y1, 357H1, 363H1; STA347H1

2. At least 2 full courses chosen from: MAT344H1, 454H1, 457Y1, 464H1, 477H1; STA302H1, 352Y1, 438H1, 457H1; CSC350H1, 351H1, 446H1, 456H1

3. Three courses from: APM421H1, 426H1, 461H1, 462H1, 466H1

NOTE: The Department recommends that PHY 140Y1 be taken in First Year. If you do not have a year course in programming from high school, the Department strongly recommends that you take CSC107H1/108H1 before attempting CSC148H1/150H1.

### **Mathematics (Science program)**

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Consult Professor J.W. Lorimer, Associate Chair, Department of Mathematics

#### **Specialist program:**

(11.5 full courses or their equivalent, including at least one 400-series course)

# Mathematics

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## First Year:

MAT 157YI, 240HI, 247HI

## Second Year:

MAT 257YI, 267HI

## Third and Fourth Years:

1. MAT 327HI, 347YI, 354HI, 357HI, 477HI
2. One of: APM 351YI, MAT 457YI
3. Three of: APM 461HI, MAT 309HI, 363HI 415HI/417HI, 454HI
4. At least 2.5 APM/MAT including at least 1.5 at the 400-level (these may include options above not already chosen)

NOTE: The Department recommends that PHY 140YI be taken in First Year, that CSC 148HI/150HI/260HI and STA 257HI be taken during the program. If you do not have a year course in programming from high school, the Department strongly recommends that you take CSC107HI/108HI before attempting CSC148HI/150HI.

## Major program:

(7 full courses or their equivalent)

### First Year:

MAT 135YI/136YI/137YI, 223HI

### Second Year:

MAT 224HI/247HI, 235YI/237YI, 246HI/(CSC 236HI/240HI, PHL 245HI), MAT 244HI

### NOTE:

MAT 224HI may be taken in first year

### Higher Years:

1. MAT 301HI, 334HI, PHL245HI
2. One half course or equivalent at the 200+level from: ACT, APM, MAT, STA
3. MAT401HI/402HI; one half course at 300+level from: at least APM, MAT, HPS390HI, 391HI, PSL431HI, 432HI, 433HI; PHL346HI, 349HI

## Minor program:

(4 full courses or their equivalent)

1. MAT 135YI/136YI/137YI, 235YI/237YI, 223HI, 224HI/244HI/APM236HI
2. One 300+-level full course or combination from: APM, MAT, including HPS 390HI, 391HI, PSL 431HI, 432HI, 433HI

**Note: in all programs, higher levels courses within the same topic are acceptable substitutions.**

## Mathematics and Its Applications (Science program)

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### Specialist program:

(10.5 - 11.5 full courses or their equivalent, including one full course at 400-level)

The program requirements are the core courses below, together with the courses in one of the following areas of concentration. If you get a specialist degree in Mathematics and its Applications, your transcript and degree will indicate also your area of concentration. Please be careful to check course prerequisites in choosing your program.

### Core Courses:

#### First Year:

CSC 107HI/108HI, MAT 135YI/136YI/137YI/157YI (MAT 137YI strongly recommended), 223HI/240HI

## Second Year:

MAT 224HI/247HI, 235YI/237YI/257YI (MAT 237YI strongly recommended), MAT 246HI (waived for students taking MAT 257YI), MAT244HI/267HI, STA257HI

## Higher Years:

MAT 301HI, 334HI

## Areas of Concentration

### Teaching Concentration:

It may be to students' advantage to keep in mind that OISE requires students to have a second teachable subject.

1. MAT329YI, HPS/MAT390HI, HPS/MAT391HI, MAT401HI/402HI
2. Two of :MAT 309HI, 315HI, 335HI, 337HI, 344HI, 363HI
3. Two half courses at 300+ level from APM, STA

This program addresses an increasing need for highly qualified mathematics teachers. Students planning to apply for admission to a B.Ed. program are encouraged also to get practical teaching experience at a level of their interests. Students successfully completing the Teaching Concentration and having practical experience will be highly competitive for admission to initial teaching programs at OISE/UT.

### Computer Science Concentration:

1. CSC207HI, 165HI, 258HI, 209HI; MAT344HI
2. Three of :APM 461HI; CSC 350HI, 351HI, 354HI, 363HI, 378HI, 438HI, 446HI, 456HI, 465HI, 487HI
3. Two CSC half courses at 300+level.

NOTE: In order to take the Computer Science concentration, you will be required to register also for a Computer Science Major. (The latter is a restricted enrolment program and has certain admission requirements; please see the Computer Science program description.)

### Physical Sciences Concentration:

1. PHY 140YI (in first year); APM 346HI/351YI; AST 221HI, 222HI
2. Two of PHY 251HI, 252HI, 255HI, 256HI
3. Two of APM 421HI, 436HI, 441HI, 446HI; AST 320HI, 325HI; MAT 337HI; PHY 307HI, 309HI, 315HI, 351HI, 352HI, 353HI, 355HI, 357HI, 358HI

### Probability/Statistics Concentration:

1. CSC 260HI/207HI, 350HI; APM 346HI/351YI/462HI; MAT 337HI; STA 302HI, 347HI, 352YI
2. Two of: STA 422HI, 437HI, 438HI, 442HI, 447HI, 457HI

### Design-Your-Own Concentration:

Nine half-courses of which at least six must be at the 300+level, to be approved by the Department no later than the beginning of your third year.

## Mathematical Applications in Economics and Finance (Science Program)

Consult Professor J.W. Lorimer, Associate Chair, Department of Mathematics

### **Specialist program:**

(11.5-12 full courses or their equivalent including one full course at the 400-level)

First Year:

ECO100Y1, MAT137Y1, 223H1, 224H1

Second Year:

ECO206Y1, MAT237Y, 244H1, STA257H1, 261H1

Higher Years:

APM346H1, APM462H1, 466H1, ECO358H1, MAT337H1, STA302H1/ECO327Y1, STA347H1, STA457H1

Two of: ECO359H1, MAT315H1, 334H1

## Mathematics and Computer Science: see Computer Science

## Mathematics and Economics: see Economics

## Mathematics and Philosophy (Science program)

Consult the Undergraduate Coordinators of the Departments of Mathematics and Philosophy.

### **Specialist program:**

(13 full courses or their equivalent including one full course at the 400-level)

First Year:

MAT 157Y1, 240H1, 247H1; PHL245H1

Higher Years:

1. PHL245H1 (if not taken in First Year)
2. MAT 257Y1, 327H1, 347Y1, 354H1/357H1
3. PHL346H1/349H1, MAT309H1/PHL344H1/345H1
4. Four of: PHL 246H1, 346H1, 347H1, 349H1, 480H1
5. One course in epistemology and/or philosophy of science
6. 3.5 additional PHL courses, preferably including two in the history of philosophy and one in ethics or social/political philosophy

## Mathematics and Physics(Science program)

Consult Professor J.W. Lorimer, Associate Chair, Department of Mathematics, and the Associate Chair, Department of Physics.

### **Specialist program:**

(13.5 full courses or their equivalent, including at least one 400-series course)

First Year:

MAT 157Y1, 240H1, 247H1; PHY 140Y1

Second Year:

MAT 257Y1, 267H1; PHY 225H1, 251H1, 252H1, 255H1, 256H1

Third Year:

APM 351Y1, MAT 327H1, 354H1, 357H1, 363H1; PHY 351H1, 352H1, 355H1

Fourth Year:

APM 421H1, 426H1; PHY 457H1; APM 446H1/PHY 459H1/460H1

## Mathematics and Statistics: see Statistics

## Applied Mathematics Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all APM courses are classified as Science courses (see page 27).

### **APM236H1 Applications of Linear Programming 39L**

Introduction to linear programming including a rapid review of linear algebra (row reduction, linear independence), the simplex method, the duality theorem, complementary slackness, and the dual simplex method. A selection of the following topics are covered: the revised simplex method, sensitivity analysis, integer programming, the transportation algorithm.

Prerequisite: MAT223H1/240H1 (Note: no waivers of prerequisites will be granted)

### **APM346H1 Partial Differential Equations 39L**

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: MAT235Y1/237Y1/257Y1, 244H1

### **APM351Y1 Partial Differential Equations 78L**

Diffusion and wave equations. Separation of variables. Fourier series. Laplace's equation; Green's function. Schrödinger equations. Boundary problems in plane and space. General eigenvalue problems; minimum principle for eigenvalues. Distributions and Fourier transforms. Laplace transforms. Differential equations of physics (electromagnetism, fluids, acoustic waves, scattering). Introduction to nonlinear equations (shock waves, solitary waves).

Prerequisite: MAT267H1

Co-requisite: MAT334H1/354H1

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## **400-SERIES COURSES**

### **Note:**

Some courses at the 400-level are cross-listed as graduate courses and may not be offered every year. Please see the Department's undergraduate brochure for more details.

### **APM421H1 Mathematical Foundations of Quantum 39L**

The general formulation of non-relativistic quantum mechanics based on the theory of linear operators in a Hilbert space, self-adjoint operators, spectral measures and the statistical interpretation of quantum mechanics; functions of compatible observables. Schrödinger and Heisenberg pictures, complete sets of observables, representations of the canonical commutative relations; essential self-adjointness of Schrödinger operators, density operators, elements of scattering theory.

Prerequisite: (MAT224H1, 337H1)/357H1

### **APM426H1 General Relativity 39L**

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 gravity waves.

Prerequisite: MAT363H1

# Mathematics

## APM436HI Fluid Mechanics 39L

Boltzmann, Euler and Navier-Stokes equations. Viscous and non-viscous flow. Vorticity. Exact solutions. Boundary layers. Wave propagation. Analysis of one dimensional gas flow.  
Prerequisite: APM351Y1

## APM441HI Asymptotic and Perturbation Methods 39L

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: APM346HI/351Y1, MAT334HI

## APM446HI Applied Nonlinear Equations 39L

Nonlinear partial differential equations and their physical origin. Fourier transform; Green's function; variational methods; symmetries and conservation laws. Special solutions (steady states, solitary waves, travelling waves, self-similar solutions). Calculus of maps; bifurcations; stability, dynamics near equilibrium. Propagation of nonlinear waves; dispersion, modulation, optical bistability. Global behaviour solutions; asymptotics and blow-up.  
Prerequisite: APM346HI/351Y1

## APM456HI Control Theory and Optimization 39L

Differential systems with controls and reachable sets. Non-commutativity, Lie bracket and controllability. Optimality and maximum principle. Hamiltonian formalism and symplectic geometry. Integrability. Applications to engineering, mechanics and geometry.  
Prerequisite: MAT357HI or MAT244HI/267HI, 337HI

## APM461HI Combinatorial Methods 39L

A selection of topics from such areas as graph theory, combinatorial algorithms, enumeration, construction of combinatorial identities.  
Prerequisite: MAT224HI  
Recommended preparation: MAT344HI

## APM462HI Nonlinear Optimization (formerly APM362HI) 39L

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 variations. Basic numerical search methods and software packages which implement them will be discussed.  
Prerequisite: MAT223HI, 235Y1

## APM466HI Mathematical Theory of Finance 39L

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.  
Prerequisite: APM346HI, STA347HI  
Co-requisite: STA457HI

## APM496HI/ Readings in Applied Mathematics TBA 497HI/498Y1/499Y1

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings.  
Prerequisite: minimum GPA 3.5 for math courses. Permission of the Associate Chair for Undergraduate Studies and prospective supervisor

## Mathematics Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all MAT courses except MAT 123HI, 124HI and 133Y1 are classified as SCIENCE courses (see page 27).

High school prerequisites for students coming from outside the Ontario high school system:

MAT133Y1: high school level calculus and (algebra-geometry or finite math or discrete math)

MAT135Y1: high school level calculus

MAT137Y1: high school level calculus and algebra-geometry

MAT157Y1: high school level calculus and algebra-geometry

MAT223HI: high school level calculus and algebra-geometry

## SCI199HI/Y1 First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

**NOTE: Transfer students who have received MAT1\*\*HI – Calculus with course exclusion to MAT133Y1/135Y1/136Y1 may take MAT137Y1/157Y1 without forfeiting the half credit in Calculus.**

## MAT123HI, 124HI

See below MAT 133Y1

## MAT125HI, 126HI

See below MAT 135Y1

## MAT133Y1 Calculus and Linear Algebra 78L, 24T for Commerce

Mathematics of finance. Matrices and linear equations. Review of differential calculus; applications. Integration and fundamental theorem; applications. Introduction to partial differentiation; applications.

NOTE: please note prerequisites listed below. Students without the proper prerequisites for MAT133Y1 may be deregistered from this course.

Exclusion: MAT123HI, 124HI, 125HI, 126HI, 135Y1, 136Y1, 137Y1, 157Y1

Prerequisite: MCB4U, MGA4U/MDM4U

MAT133Y1 counts as a Social Science course

## MAT123HI Calculus and Linear Algebra 39L for Commerce (A)

First term of MAT133Y1. Students in academic difficulty in MAT133Y1 who have written two midterm examinations with a mark of at least 20% in the second may withdraw from MAT133Y1 and enrol in MAT123HI in the Spring Term. These students are informed of this option by the beginning of the Spring Term. Classes begin in the second week of the Spring Term; late enrolment is not permitted. Students not enrolled in MAT133Y1 in the Fall Term are not allowed to enrol in MAT123HI. MAT123HI together with MAT124HI is equivalent for program and prerequisite purposes to MAT133Y1.

Exclusion: MAT125HI, 126HI, 133Y1, 135Y1, 136Y1, 137Y1, 157Y1

NOTE: students who enrol in MAT133Y1 after completing MAT123HI but not MAT124HI do not receive degree



credit for MAT133Y1; it is counted ONLY as an "Extra Course."

Prerequisite: Enrolment in MAT133Y1, and withdrawal from MAT133Y1 after two midterms, with a mark of at least 20% in the second midterm.

MAT123HI is a Social Science course

**MAT124HI Calculus and Linear Algebra for Commerce (B) 39L, 13T**

Second Term content of MAT133Y1; the final examination includes topics covered in MAT123HI. Offered in the Summer Session only; students not enrolled in MAT123HI in the preceding Spring Term will NOT be allowed to enrol in MAT124HI. MAT123HI together with MAT124HI is equivalent for program and prerequisite purposes to MAT133Y1.

Exclusion: MAT125HI, 126HI, 133Y1, 135Y1, 136Y1, 137Y1, 157Y1

Prerequisite: MAT123HI successfully completed in the preceding Spring Term

MAT124HI is a Social Science course

**MAT135Y1 Calculus I 78L, 24T**

Review of trigonometric functions; trigonometric identities and trigonometric limits. Review of differential calculus; applications. Integration and fundamental theorem; applications. Series. Introduction to differential equations.

Exclusion: MAT123HI, 124HI, 125HI, 126HI, 133Y1, 136Y1, 137Y1, 157Y1

Prerequisite: MCB4U

**MAT125HI Calculus I (A) 39L**

First term of MAT135Y1. Students in academic difficulty in MAT135Y1 who have written two midterm examinations with a mark of at least 20% in the second may withdraw from MAT135Y1 and enrol in MAT125HI in the Spring Term. These students are informed of this option by the beginning of the Spring Term. Classes begin in the second week of the Spring Term; late enrolment is not permitted. Students not enrolled in MAT135Y1 in the Fall Term will not be allowed to enrol in MAT125HI. MAT125HI together with MAT126HI is equivalent for program and prerequisite purposes to MAT135Y1.

Exclusion: MAT123HI, 124HI, 133Y1, 135Y1, 136Y1, 137Y1, 157Y1

NOTE: students who enrol in MAT135Y1 after completing MAT125HI but not MAT126HI do not receive degree credit for MAT135Y1; it is counted ONLY as an "Extra Course."

Prerequisite: Enrolment in MAT135Y1, and withdrawal from MAT135Y1 after two midterms, with a mark of at least 20% in the second midterm.

**MAT126HI Calculus I (B) 39L, 13T**

Second Term content of MAT135Y1; the final examination includes topics covered in MAT125HI. Offered in the Summer Session only; students not enrolled in MAT125HI in the preceding Spring Term will NOT be allowed to enrol in MAT126HI. MAT125HI together with MAT126HI is equivalent for program and prerequisite purposes to MAT135Y1.

Exclusion: MAT123HI, 124HI, 133Y1, 135Y1, 136Y1, 137Y1

Prerequisite: MAT125HI successfully completed in the preceding Spring Term

**MAT136Y1 Calculus and its Foundations 104L, 52T**

Limited to out-of-province students interested in the biological, physical, or computer sciences, whose high school mathematics preparation is strong but does not include calculus. Develops

the concepts of calculus at the level of MAT135Y1. May include background material on functions, analytic geometry, and trigonometry, as well as on calculus.

Exclusion: MAT123HI, 124HI, 125HI, 126HI, 133Y1, 135Y1, 137Y1, 157Y1

Prerequisite: Solid background in high school mathematics, up to and including Grade 11

**MAT137Y1 Calculus! 78L, 26T**

A conceptual approach for students with a serious interest in mathematics. Geometric and physical intuition are emphasized but some attention is also given to the theoretical foundations of calculus. Material covers first a review of trigonometric functions followed by discussion of trigonometric identities. The basic concepts of calculus: limits and continuity, the mean value and inverse function theorems, the integral, the fundamental theorem, elementary transcendental functions, Taylor's theorem, sequence and series, uniform convergence and power series.

Exclusions: MAT126HI, 135Y1, 136Y1, 157Y1

Prerequisite: MCB4U, MGA4U

**MAT157Y1 Analysis I 78L, 52T**

A theoretical course in calculus; emphasizing proofs and techniques, as well as geometric and physical understanding. Trigonometric identities. Limits and continuity; least upper bounds, intermediate and extreme value theorems. Derivatives, mean value and inverse function theorems. Integrals; fundamental theorem; elementary transcendental functions. Taylor's theorem; sequences and series; uniform convergence and power series.

Exclusion: MAT137Y1

Prerequisite: MCB4U, MGA4U

**JMB170Y1 Biology, Models, and Mathematics 52L, 26T**

Applications of mathematics to biological problems in physiology, biomechanics, genetics, evolution, growth, population dynamics, cell biology, ecology and behaviour.

Co-requisite: BIO150Y1

**JUM202HI Mathematics as an Interdisciplinary Pursuit (formerly JUM102HI) 26L, 13T**

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. (Offered every three years)

Exclusion: JUM102HI

JUM202HI is particularly suited as a Science Distribution Requirement course for Humanities and Social Science students.

**JUM203HI Mathematics as a Recreation 26L, 13T (formerly JUM103HI)**

A study of games, puzzles and problems focusing on the deeper principles they illustrate. Concentration is on problems arising out of number theory and geometry, with emphasis on the process of mathematical reasoning. Technical requirements are kept to a minimum. A foundation is provided for a continuing lay interest in mathematics. (Offered every three years)

Exclusion: JUM103HI

JUM203HI is particularly suited as a Science Distribution Requirement course for Humanities and Social Science students.

# Mathematics

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**JUM205HI Mathematical Personalities 26L, 13T**  
**(formerly JUM105HI)**

An in-depth study of the life, times and work of several mathematicians who have been particularly influential. Examples may include Newton, Euler, Gauss, Kowalewski, Hilbert, Hardy, Ramanujan, Gödel, Erdős, Coxeter, Grothendieck. (Offered every three years)

Exclusion: JUM105HI

JUM205HI is particularly suited as a Science Distribution Requirement course for Humanities and Social Science students.

**MAT223HI Linear Algebra I 39L, 13T**

Matrix arithmetic and linear systems.  $\mathbb{R}^n$  subspaces, linear independence, bases, dimension; column spaces, null spaces, rank and dimension formula. Orthogonality orthonormal sets, Gram-Schmidt orthogonalization process; least square approximation. Linear transformations  $\mathbb{R}^n \rightarrow \mathbb{R}^m$ . The determinant, classical adjoint, Cramer's Rule. Eigenvalues, eigenvectors, eigenspaces, diagonalization. Function spaces and application to a system of linear differential equations.

Exclusion: MAT240HI

Prerequisite: MCB4U, MGA4U

**MAT224HI Linear Algebra II 39L, 13T**

Abstract vector spaces: subspaces, dimension theory. Linear mappings: kernel, image, dimension theorem, isomorphisms, matrix of linear transformation. Changes of basis, invariant spaces, direct sums, cyclic subspaces, Cayley-Hamilton theorem. Inner product spaces, orthogonal transformations, orthogonal diagonalization, quadratic forms, positive definite matrices. Complex operators: Hermitian, unitary and normal. Spectral theorem. Isometries of  $\mathbb{R}^2$  and  $\mathbb{R}^3$ .

Exclusion: MAT247HI

Prerequisite: MAT223HI/240HI

**MAT235YI Calculus II 78L**

Differential and integral calculus of functions of several variables. Line and surface integrals, the divergence theorem, Stokes' theorem. Sequences and series, including an introduction to Fourier series. Some partial differential equations of Physics.

Exclusion: MAT237YI, 257YI

Prerequisite: MAT135YI/136YI/137YI/157YI

**MAT237YI Multivariable Calculus 78L**

Sequences and series. Uniform convergence. Convergence of integrals. Elements of topology in  $\mathbb{R}^2$  and  $\mathbb{R}^3$ . Differential and integral calculus of vector valued functions of a vector variable, with emphasis on vectors in two and three dimensional euclidean space. Extremal problems, Lagrange multipliers, line and surface integrals, vector analysis, Stokes' theorem, Fourier series, calculus of variations.

Exclusion: MAT235YI, 257YI

Prerequisite: MAT137YI/157YI/135YI(90%),223HI/240HI

**MAT240HI Algebra I 39L, 26T**

A theoretical approach to: vector spaces over arbitrary fields including  $\mathbb{C}, \mathbb{Z}_p$ . 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: MCB4U, MGA4U

Co-requisite: MAT157YI

**MAT244HI Introduction to Ordinary 39L**  
**Differential Equations**

Ordinary differential equations of the first and second order; existence and uniqueness; solutions by series and integrals; linear systems of first order; non-linear equations; difference equations. Applications in life and physical sciences and economics.

Exclusion: MAT267HI

Prerequisite: MAT135YI/136YI/137YI/157YI, 223HI/240HI

Co-requisite: MAT235YI/237YI

**MAT246HI Concepts in Abstract Mathematics 39L**  
**(formerly MAT246YI)**

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.

Exclusion: MAT 157YI, 246YI

Prerequisite: MAT133YI/135YI/136YI/137YI, 223H

**MAT247HI Algebra II 39L, 13T**

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. Examples of symmetry groups and linear groups, stochastic matrices, matrix functions.

Prerequisite: MAT240HI

Co-requisite: MAT157YI

**MAT257YI Analysis II 78L, 52T**

Topology of  $\mathbb{R}^n$ ; compactness, functions and continuity, extreme value theorem. Derivatives; inverse and implicit function theorems, maxima and minima, Lagrange multipliers. Integrals; 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.

Prerequisite: MAT157YI, 240HI, 247HI

**MAT267HI Advanced Ordinary 39L, 13T**  
**Differential Equations I**

First-order equations. Linear equations and first-order systems. Non-linear first-order systems. Existence and uniqueness theorems for the Cauchy problem. Method of power series. Elementary qualitative theory; stability, phase plane, stationary points. Examples of applications in mechanics, physics, chemistry, biology and economics.

Exclusion: MAT244HI

Prerequisite: MAT157YI, 247HI

Co-requisite: MAT257YI

**MAT299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

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## 300-Series Courses

**MAT301HI Groups and Symmetries 39L**

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's theorem. Normal subgroups, quotient groups. Classification of finitely generated abelian groups. Emphasis on examples and calculations.

Exclusion: MAT347Y1

Prerequisite: MAT224HI, 235Y1/237Y1

**MAT309HI Introduction to Mathematical Logic 39L**

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.

Exclusion: CSC438HI

Prerequisite: MAT223HI/240HI, 235Y1/237Y1/257Y1

**MAT315HI Introduction to Number Theory 39L**

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: MAT(235Y1/237Y1, 223HI/240HI)/257Y1

**MAT327HI Introduction to Topology 39L**

Metric spaces, topological spaces and continuous mappings; separation, compactness, connectedness. Topology of function spaces. Fundamental group and covering spaces. Cell complexes, topological and smooth manifolds, Brouwer fixed-point theorem.

Prerequisite: MAT257Y1/(224HI, 237Y1, 246HI and permission of the instructor)

**MAT329YI Concepts in Elementary Mathematics 78L**

The formation of mathematical concepts and techniques, and their application to the everyday world. Nature of mathematics and mathematical understanding. Role of observation, conjecture, analysis, structure, critical thinking and logical argument. Numeration, arithmetic, geometry, counting techniques, recursion, algorithms. This course is specifically addressed to students intending to become elementary school teachers and is strongly recommended by the Faculty of Education. Previous experience working with children is useful. The course content is considered in the context of elementary school teaching. In particular, the course may include a practicum in school classrooms. The course has an enrolment limit of 40, and students are required to ballot.

Prerequisite: Any 7 full courses with a CGPA of at least 2.5

**MAT334HI Complex Variables 39L**

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.

Exclusion: MAT354HI

Prerequisite: MAT223HI, 235Y1/237Y1

**MAT335HI Chaos, Fractals and Dynamics 39L**

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: MAT137Y1/200-level calculus, 223HI

**MAT337HI Introduction to Real Analysis 39L**

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.

Exclusion: MAT357HI

Prerequisite: MAT224HI, 235Y1/237Y1, 246HI

**MAT344HI Introduction to Combinatorics 39L**

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: MAT223HI/240HI

**MAT347YI Groups, Rings and Fields 78L, 26T**

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

**MAT354HI Complex Analysis I 39L**

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's lemma, residue theorem and residue calculus.

Prerequisite: MAT257Y1

**MAT357HI Real Analysis I 39L**

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/(327HI and permission of instructor)

**MAT363HI Introduction to Differential Geometry 39L**

Geometry of curves and surfaces in 3-spaces. Curvature and geodesics. Minimal surfaces. Gauss-Bonnet theorem for surfaces. Surfaces of constant curvature.

Prerequisite: MAT224HI, 237Y1/257Y1

**MAT390HI History of Mathematics up to 1700 39L**

A survey of ancient, medieval, and early modern mathematics with emphasis on historical issues. (Offered in alternate years)

Exclusion: HPS309HI, 310Y1, 390HI

Prerequisite: at least one full MAT 200-level course

**MAT391HI History of Mathematics after 1700 26L, 13T**

A survey of the development of mathematics from 1700 to the present with emphasis on technical development. (Offered in alternate years)

Exclusion: HPS309HI, 310HI, 391HI

Prerequisite: At least one full 200-level MAT course

# Mathematics

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## **MAT393YI/ Independent Work in Mathematics TBA 394YI**

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings. Prerequisite: Minimum GPA of 3.5 in math courses. Permission of the Associate Chair for Undergraduate Studies and prospective supervisor

## **MAT395HI/ Independent Work in Mathematics TBA 396HI/ 397HI**

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings. Prerequisite: Minimum GPA of 3.5 in math courses. Permission of the Associate Chair for Undergraduate Studies and prospective supervisor

## **MAT398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

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### 400-Series Courses

#### Note

Some courses at the 400-level are cross-listed as graduate courses and may not be offered every year. Please see the Department's undergraduate brochure for more details.

## **MAT401HI Polynomial Equations and Fields 39L (formerly MAT302HI)**

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.

Exclusion: MAT347Y I

Prerequisite: MAT224HI, 235Y I/237Y I, 246HI/257Y I

## **MAT402HI Classical Geometries 39L (formerly MAT365HI)**

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: MAT301HI

## **MAT409HI Set Theory 39L**

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.

Prerequisite: MAT357HI

## **MAT415HI Topics in Algebraic Number Theory 39L**

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: MAT347Y I or permission of instructor

## **MAT417HI Topics in Analytic Number Theory 39L**

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.

Prerequisite: MAT334HI/354HI/permission of instructor

## **MAT425HI Differential Topology 39L**

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: MAT257Y I, 327HI

## **MAT427HI Algebraic Topology 39L**

Introduction to homology theory: singular and simplicial homology; homotopy invariance, long exact sequence, excision, Mayer-Vietoris sequence; applications. Homology of CW complexes; Euler characteristic; examples. Singular cohomology; products; cohomology ring. Topological manifolds; orientation; Poincaré duality.

Prerequisite: MAT327HI, 347Y I

## **MAT443HI Computer Algebra 39L**

Introduction to algebraic algorithms used in computer science and computational mathematics. Topics may include: generating sequences of random numbers, fast arithmetic, Euclidean algorithm, factorization of integers and polynomials, primality tests, computation of Galois groups, Gröbner bases. Symbolic manipulators such as Maple and Mathematica are used.

Prerequisite: MAT347Y I

## **MAT445HI Representation Theory 39L**

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.

Prerequisite: MAT347Y I

## **MAT448HI Introduction to Commutative Algebra and Algebraic Geometry 39L**

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.

Prerequisite: MAT347Y I

## **MAT449HI Algebraic Curves 39L**

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.

Prerequisite: MAT347Y I, 354HI

## **MAT454HI Complex Analysis II 39L**

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.

Prerequisite: MAT354HI

**MAT457YI Real Analysis II 78L**

Measure theory and Lebesgue integration; convergence theorems. Riesz representation theorem, Fubini's theorem, complex measures. Banach spaces;  $L_p$  spaces, density of continuous functions. Hilbert spaces; weak and strong topologies; self-adjoint, compact and projection operators. Hahn-Banach theorem, open mapping and closed graph theorems. Inequalities. Schwartz space; introduction to distributions; Fourier transforms on  $\mathbb{R}^n$  (Schwartz space and  $L^2$ ). Spectral theorem for bounded normal operators.  
Prerequisite: MAT357HI

**MAT464HI Differential Geometry 39L**

Riemannian metrics and connections. Geodesics. Exponential map. Complete manifolds. Hopf-Rinow theorem. Riemannian curvature. Ricci and scalar curvature. Tensors. Spaces of constant curvature. Isometric immersions. Second fundamental form. Topics from: Cut and conjugate loci. Variation energy. Cartan-Hadamard theorem. Vector bundles.  
Prerequisite: MAT363HI

**MAT468HI Ordinary Differential Equations II 39L**

Sturm-Liouville problem and oscillation theorems for second-order linear equations. Qualitative theory; integral invariants, limit cycles. Dynamical systems; invariant measures; bifurcations, chaos. Elements of the calculus of variations. Hamiltonian systems. Analytic theory; singular points and series solution. Laplace transform.  
Prerequisite: MAT267HI, 354HI, 357HI

**MAT477YI Seminar in Mathematics TBA  
(formerly MAT477HI)**

Seminar in an advanced topic. Content will generally vary from year to year. (Student presentations will be required)  
Exclusion: MAT477HI  
Prerequisite: MAT347YI, 354HI, 357HI; or permission of instructor.

**MAT495HI/ Readings in Mathematics TBA  
496HI/  
497HI/  
498YI/  
499YI**

Independent study under the direction of a faculty member.  
Topic must be outside undergraduate offerings.  
Prerequisite: Minimum GPA of 3.5 in math courses. Permission of the Associate Chair for Undergraduate Studies and prospective supervisor

**Mediaeval Studies: see St. Michael's College**

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**Microbiology: see Life Sciences: Microbiology**

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**Molecular Genetics & Microbiology: see Life Sciences: Molecular Genetics & Microbiology**

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# Modern Languages and Literatures

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The Modern Languages and Literatures program is a number of sub-programs given by Faculty Language Departments. Upon graduation a student is certified as having completed a combined Specialist Program in the two languages chosen. Enrolment in this program requires the completion of four courses; no minimum GPA required. The normal combinations are listed below; for combinations NOT listed students should consult the departments concerned.

See also the Language Citation Program, page 20.

## **Modern Languages and Literatures**

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### **Specialist program:**

(14-15 full courses or their equivalent)

Fourteen courses are required, seven in each subject with the following requirements:

#### **French (with German/Italian/ Portuguese/ Russian/ Spanish)**

(8 courses)

Same as the Major Program in French Language and Literature

#### **German (with French/Italian/Russian/Spanish)**

Same as the Major Program in German Studies

#### **Italian (with French/German/Portuguese/Russian/ Spanish)**

Same as the Major Program in Italian

#### **Polish (with French/German/Russian)**

First Year:

SLA 106Y1

Higher Years:

1. SLA 206Y1, 216Y1, 306HI, 336HI I
2. Two courses from: SLA 226HI, 346HI, 356HI, 406Y1/406HI, 416Y1, 424HI, 436HI, 446HI, 476HI

#### **Portuguese (with French/Italian/Spanish)**

(7 courses)

Same as the Major Program in Portuguese

#### **Russian (with French/German/Italian)**

See Slavic Languages & Literatures for details.

#### **Spanish (with French/German/Italian/Portuguese)**

(7 courses)

First Year:

SPA 100Y1/220Y1; SPA 319Y1 (for native/bilingual speakers of Spanish)

Second Year:

SPA 220Y1/320Y1; SPA 420HI (for speakers who have taken SPA 319Y1 in first year)

Third and Fourth Years:

1. SPA 320Y1, 454HI
2. SPA 450HI or 452HI
3. SPA 420HI is recommended for students who start in SPA 100Y1
4. SPA 420HI is required for students who start in SPA 220Y1 or higher language course; plus a 300/400-series half-course in language or linguistics
5. Plus additional SPA courses, including a half-course in Spanish American literature, to make seven courses. Up to one full-course equivalent may be taken from cognate departmental or college offerings: GGR, HIS, LAS, LIN, POL, PRT. A complete list of eligible courses is available from the

Undergraduate Coordinator: Students interested in Latin America are encouraged to take an introductory course in Portuguese (PRT 100Y1/110Y1).

#### **Ukrainian (with French/German)**

First Year:

SLA 108Y1

Higher Years:

1. SLA 208Y1, 218Y1
2. Three courses, including at least one at the 300+level., from: SLA 228HI, 238HI, 248HI, 253HI, 308Y1, 318HI, 328HI, 408HI, 418HI, 419Y1, 428Y1, 429HI, 438HI, 448HI, 458HI, 468HI. Courses in Ukrainian history may also be counted toward this programme.

**Given by Members of the Faculty of Music****Faculty: Music History and Culture**

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**University Professor Emeritus**

A. Hughes, MA, D Phil (T)

**Professors Emeriti**

J. Beckwith, CM, M Mus, D Mus

R. Falck, MFA, Ph D

M.R. Maniates, MA, Ph D (V)

T. McGee, MA, Ph D

C. Morey, MM, Ph D (T)

**Professor**

G. Averill, MA, Ph D

J. Kippen, Ph D (T)

**Associate Professors**

W. Bowen, MA, Ph D (S)

R. Elliott, MA, Ph D

J. Haines, MA, Ph D

G.S. Johnston, MA, Ph D

G.G. Jones, MA, Ph D (U)

M.A. Parker, MM, Ph D (M)

**Assistant Professors**

Celia Cain, AM, Ph D

**Faculty: Musical Theory and Composition**

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**Professors Emeriti**

D. Beach, Mus M, Ph D

J. Beckwith, CM, M Mus, D Mus

W.J. Buczynski

G. Ciomaga, MFA

D. Holman, D Mus

T. Kenins, B Litt

E. Laufer, Mus M, MFA

O. Morawetz, O Ont., Mus D

P. Pedersen, M Mus, Ph D

**Professors**

K.N. Chan, Mus M, D Mus

C. Hatzis, M Mus, Ph D

**Assistant Professor**

R. McClelland, Ph D

**Senior Lecturers**

J. Kruspe, Mus Bac

G. Kulesha

D. Patrick, Mus M

M. Sallmen, MA, Ph D

W. Wright, M Div

**Lecturers**

A. Rapoport, MA, Ph D

L. Kuzmenko, Mus Bac

**Faculty: Performance**

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**Associate Professors**

G. MacKay, M.Mus, D.M.

S. Ralls, MA, ARAM

D. Rao, Mus M

**Senior Lecturer**

J. Reynolds, M Mus, Ph D

**Lecturer**

R. Armenian, Hon Doc, OC

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.

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 /Major Program should examine the courses listed under HMU History of Music and TMU Theory of Music. 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 Grade 2 Rudiments and Grade 3 Harmony from the RCM or acceptable equivalents as prerequisites, 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 and ethnomusicology 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](http://www.music.utoronto.ca) or telephone 416-978-3744.

Faculty of Music Representative: Professor G. Johnston, Co-ordinator (416-978-3750)

Enquiries: Admissions Officer, Edward Johnson Building, Room 145 (416-978-3741); e-mail: [undergrad.music@utoronto.ca](mailto:undergrad.music@utoronto.ca)

**Music Programs**

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Enrolment in HMU and TMU courses, and, therefore, in the Specialist and Major programs, is limited to students who pass the audition-interview, held on Tuesday, September 4, 2007. Students are required to complete and submit the Student

# Music

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Profile available on-line at [www.music.utoronto.ca](http://www.music.utoronto.ca) prior to August 23, 2007. Hardcopies are available from the Faculty of Music Registrar's Office. You will then be assigned an audition time. Prospective candidates must perform at the Royal Conservatory of Music Grade Eight level, and demonstrate that they have Grade Two Rudiments and Grade Three 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 MUS 120Y. An information sheet is available at the Faculty of Music. (This is not required for the Music Minor program, see below.)

## Music (Arts program)

### **Specialist program:**

(10 full courses or equivalent, including three 300+ level courses and one 400+ level course)

First Year:

HMU 111HI, TMU 140Y1, one 100-level course in a language other than English

Higher Years:

1. HMU 225HI, 226HI
2. HMU 330HI, 331HI, 333HI, 430HI, 431HI, 432HI, 433HI
3. TMU 240Y1 and a half-course in advanced theory (TMU)
4. Three half-courses in history electives (HMU)

NOTE: Part-time students will satisfy co-requisites by taking courses in the following order: TMU 140Y1, HMU 111HI, TMU 240Y1, HMU 225HI, 226HI

### **Specialist with Ensemble Option program:**

(10.5 full courses or equivalent, including three 300+ level courses and one 400+ level course)

First Year:

HMU 111HI, MUS 120Y1, TMU 140Y1, one 100-level course in a language other than English

Higher Years:

1. HMU 225HI, 226HI
2. Three-and-a-half full courses in history electives (HMU), including two full credits of topic courses from the list HMU 330HI, 331HI, 333HI, 430HI, 431HI, 432HI, 433HI
3. TMU 240Y1 and a half-course in 300+ level theory (TMU)
4. MUS 220Y1

NOTE: Part-time students will satisfy co-requisites by taking courses in the following order: TMU 140Y1, HMU 111HI, TMU 240Y1, HMU 225HI, 226HI

### **Major program:**

(7 full courses or equivalent, including at least two 300+ level courses)

First Year:

HMU 111HI, TMU 140Y1

Higher Years:

1. HMU 225HI, 226HI and three further half-courses in history electives (HMU)
2. TMU 240Y1 and a half-course in advanced theory (TMU)
3. 1.5 additional HMU/TMU courses

### **Major with Ensemble Option program:**

(7.5 full courses or equivalent, including at least two 300+ level courses)

First Year:

HMU 111HI, MUS 120Y1, TMU 140Y1

Higher Years:

1. HMU 225HI, 226HI
2. TMU 240Y1
3. 2.0 additional HMU/TMU electives
4. MUS 220Y1

## Music History and Culture (Arts program)

### **Minor program:**

(4 full courses or equivalent)

1. MUS 110HI, 111HI
2. MUS 200HI or an alternative 200-level course in world music (MUS 209HI or MUS 211HI)
3. 2.5 MUS courses from the list below, including one full course at the 300+ level. Either MUS 120Y1 or MUS 220Y1 can be counted towards the 2.5 MUS courses

## Music Courses

See page 33 for Key to Course Descriptions.)

For Distribution Requirement purposes (see page 27), HMU, MUS, TMU courses are classified as HUMANITIES courses.

### **MUS110HI Introduction to Music History and Culture 26L**

Introduction to form, style and the interrelationships of music and culture. A basic ability to read music is required.

Exclusion: HMU111HI, VPMA80H3

### **MUS111HI Historical Survey of Western Music 26L**

Historical survey of Western art music from the Middle Ages to the present. A basic ability to read music is required.

Exclusion: HMU111HI

### **MUS120YI Vocal and Instrumental Ensembles I 156P**

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](http://www.music.utoronto.ca) beginning early July. Complete and return the MUS120Y1 & MUS220Y1 Audition Request Form before August 23. Once your request form is received, you will be notified of your audition time. Placement audition will be held on Thursday, September 6, 2007 from 6-10 p.m. in the Edward Johnson Building. The audition will be 10 minutes in length.

Exclusion: MUS291Y1

### **MUS200HI Music of the World's Peoples 26L**

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: HMU111HI, VPMA99H3

### **MUS220YI Vocal and Instrumental Ensembles II 156P**

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](http://www.music.utoronto.ca) beginning early July. Complete and return the MUS120Y1 & MUS220Y1 Audition Request Form before August 23. Once your request form is received, you will be notified of your audition time. Placement audition will be held on Thursday, September 6, 2007 from 6-10 p.m. in the Edward Johnson Building. The audition will be 10 minutes in length.

Prerequisite: MUS 120Y1. Placement audition and permission of the Department required.

**MUS230H1 Music of the 1960s 26L**

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

**MUS315H1 North American Vernacular Music 26L**

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, Metis Fiddling, Powwow, and Zydeco. No prior background in music or ability to read music is required.

Exclusion: HMU111H1

**MUS408H1 Wagner 26L**

An introduction to his music dramas and to the influences of his music and writings, from his day to ours. No prior background in music or ability to read music is required.

Exclusion: HMU111H1.

**ABS330Y1 Aboriginal Music: Technical and Theoretical Aspects**

See "Aboriginal Studies"

**Future Offerings:**

**MUS202H1 Beethoven**

**MUS204H1 The Age of Bach**

**MUS205H1 Mozart**

**MUS206H1 The World of Opera**

**MUS207H1 Music for the Orchestra**

**MUS208H1 Medieval and Renaissance Masterpieces**

**MUS209H1 Performing Arts of South Asia**

**MUS211H1 The World of Popular Music**

**MUS225H1 Music: Islamic World**

**MUS300H1 Music, Media & Technology**

**MUS302H1 Symphony**

**MUS303H1 Music in the Contemporary World**

**MUS306H1 Popular Music in North America**

**MUS308H1 Handel**

**MUS325H1 The Age of Haydn & Mozart**

## HMU, TMU Faculty of Music Courses

**HMU111H1 Introduction to Music and Society 26L, 13T**

An examination of musical thought and practice in Western and non-Western traditions.

Prerequisite: Permission of Department

Co-requisite: TMU140Y1

**TMU140Y1 Materials of Music I 52L, 78P**

Harmony: triads, non-harmonic materials, dominant seventh and derivatives, secondary dominants, simple modulation. Elementary forms and analysis of eighteenth- and nineteenth-century literature. Sight singing: melodic, rhythmic and harmonic dictation. Keyboard harmony: chords and scales in all major and minor keys; playing of cadence types, modulation to closely related keys, realization of elementary figured bass, two-part transposition, score reading in five clefs, and sight harmonization of simple melodies.

Prerequisite: Grade 2 Rudiments, Grade 3 Harmony

(RCMT), Grade 8 level performing audition, permission of Department

Co-requisite: HMU111H1

### Note

HMU 111H1 and TMU 140Y1 are prerequisites for all other HMU/TMU courses which are offered annually. Full details on these and other courses may be found in the *Calendar* of the Faculty of Music.

# Near and Middle Eastern Civilizations

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## Faculty

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### Professors Emeriti

E. Birnbaum, BA, Dipl OAS  
J.R. Blackburn, MA, Ph D  
P.E. Dion, L Th, L SS, Ph D  
L.R. Garshowitz, MA, PhD  
L.V. Golombek, MA, Ph D, FRSC  
A.K. Grayson, MA, Ph D, FRSC  
J.S. Holladay, BS, BD, Th D  
A. Jwaideh, MA, B Litt, D Phil  
E.J. Keall, BA, Ph D  
L.M. Kenny, MA  
R.T. Lutz, MA  
M.E. Marmura, MA, Ph D, FRSC  
G.M. Meredith-Owens, MA  
A. Pietersma, BA, BD, Ph D  
D.B. Redford, MA, Ph D, FRSC  
E.J. Revell, MA, Ph D, FRSC (V)  
R. Sandler, MA, Ph D  
R.M. Savory, MA, Ph D, FRSC (T)  
R.F.G. Sweet, MA, Ph D  
J.W. Wevers, BA, Th D, DD, DHC, FRSC

### Associate Professor and Chair

L.S. Northrup, MA, Ph D

### Professors

A. Harrak, MA, Ph D  
R.J. Leprohon, MA, Ph D  
J.A. Reilly, MA, Ph D (U)  
M.E. Subtelny, BA, Ph D  
M. Tavakoli-Targhi, MA, Ph D

### Associate Professors

P-A. Beaulieu, MA, Ph D  
H. Fox, MS, Ph D  
K. Goebis, MA, Ph D  
S. Green, MA, Ph D  
K.A. Grzymalski, MA, Ph D  
S.E. Günther, MA, Ph D  
T.P. Harrison, MA, Ph D  
A. Hassanpour, MA, Ph D  
B.T. Lawson, MA, Ph D  
T. Meacham, MA, Ph D  
S. Metso, MA, Ph D  
H. Najman, MA, Ph D (U)  
V. Ostapchuk, BA, Ph D

### Assistant Professors

J.P. Hanssen, BA, D. Phil  
R.D. Holmstedt, MA, Ph D  
A. Mittermaier, MA  
W. Saleh, MA, Ph D (U)  
M.A. Wegner, BA, Ph D

### Lecturers

A.K. Ali, MA, Ph D  
B. Walfish, MA, Ph D

The Department of Near and Middle Eastern Civilizations 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 languages and literatures Akkadian (Assyro-Babylonian), Arabic, Aramaic and its closely related dialect Syriac, ancient Egyptian, (biblical, rabbinic, mediaeval and modern) Hebrew, (Hellenistic) Greek, Persian and Turkish, archaeology, history, art and architecture. Near East is generally understood to refer to the region at the eastern end of the Mediterranean and beyond, from ancient times up to the advent of Islam in the seventh century C.E. Middle East refers to a much broader geographical area whose predominant Islamic culture in mediaeval and modern times has stretched to North Africa and Spain in the west and to Central Asia, India and South Asia in the east. The Department's programs are conceived in the broad tradition of the humanities and provide an opportunity to study non-western complex societies and civilizations, an understanding of which will reveal the ultimate roots, and help to appreciate the historical development, of western civilization.

As it happens, three world religions originated in this geographical region. The Department offers courses on the origins and earliest phases of Judaism and, as a contributor to the Jewish Studies Program, on mediaeval and modern Jewish history, culture and thought, even though such pursuits sometimes lead to Europe and other places beyond the Middle East. Although the Department deals with eastern (Syriac) Christianity, the study of Christianity as a religion falls within the purview of the Department for the Study of Religion. The study of Islam as a religion and the development of Islamic thought, and their role in the creation of Islamic civilization, are major concerns of the Department.

NMC 101Y1 introduces students to the ancient Near East. NMC 201Y1 presents an historical and thematic survey of the civilizations and cultures of the mediaeval and modern Middle East and provides background necessary for comprehending the complex issues facing that region today. Students particularly interested in the world and/or religion of Islam should start with NMC 185H1.

Students wishing to follow a Specialist program should choose their courses with the advice of the Undergraduate Coordinator. Those intending to proceed to a graduate degree in a particular area will obviously want to concentrate their course choices in that area and would do well to acquire a reading knowledge of German and French as early as possible. Some knowledge of anthropology and a course or two in linguistics would be useful. The Department, however, welcomes students of all academic backgrounds who wish to learn about the Middle East, including those who do not intend to specialize or major. Many courses offered in the Department do not require any knowledge of the languages of the region. Students should consult the Department's website [www.utoronto.ca/nmc](http://www.utoronto.ca/nmc) for more detailed information about courses and programs.

Undergraduate Enquiries: 4 Bancroft Avenue, Room 200, (416-978-3306)

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# Near and Middle Eastern Civilizations

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## Near and Middle Eastern Civilizations Programs

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Enrolment in NMC programs is open to anyone who has completed four courses; no minimum GPA required. Specialized streams of study within the general programs can be recommended in consultation with the Undergraduate Coordinator.

## Near and Middle Eastern Civilizations (Arts program)

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### Specialist Program:

11 full courses or their equivalent, including at least four 300+ series courses, one of which must be a 400-series course. At least 9 must be NMC and/or NML courses. Others may be taken only from a list of pre-approved courses offered by other departments. See departmental web site for details.

#### First Year:

NMC 101Y1/185H1 (formerly NMC185Y1)/201Y1. It is recommended that language instruction begin in first year, if possible.

#### Higher Years:

1. Four courses in Language (original language; not literature in translation)
2. Three courses in History and/or Religion and Philosophy
3. Two courses in Archaeology and/or Art and Material Culture
4. One additional course

### Major program:

6 full courses or their equivalent, including at least two 300+ series courses. At least 5 must be NMC and/or NML courses. Others may be taken only from a list of pre-approved courses offered by other departments. See departmental web site for details.

N.B. Admission to a Graduate Program in NMC requires the applicant to have acquired a background in languages.

### Minor program:

4 full courses or their equivalent, including at least one 300+ series course. All 4 must be NMC and/or NML courses.

## Near and Middle Eastern Civilizations Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all NMC courses except NMC 465H1 and 462Y1 are classified as HUMANITIES courses.

### HUM199H1/ First Year Seminar 52S Y1

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course but not a program requirement; see page 47.

### NMC101Y1 The Ancient Near East 78L

Introduction to the archaeology, history and literature of the ancient Near East. The contributions made by the Egyptians, Babylonians and Assyrians to the development of civilization. Exclusion: NMC370Y1/343H1/344H1/346H1/347H1 may not be taken in the same year.

### NMC201Y1 Islamic Culture and Civilization 52L

This course acquaints students with the main features and legacies of the civilization that was formed in the Middle East in the 8th-10th centuries C.E. under the impetus of Islam, and marked by several highpoints before the early modern period. Continuity with the earlier civilizations of the ancient Near East are highlighted, and the diverse cultural traditions that contributed to the formation of Islamic civilization are described.

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## Language Courses

### Note

The Department reserves the right to place students in the NMC language course best suited to their linguistic preparation.

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## Akkadian

### NML305Y1 Introductory Akkadian 78S (formerly NMC305Y1)

Introduction to Old Babylonian. Grammar and the reading of selected texts. (Offered in alternate years)

Prerequisite: Arabic or Hebrew, normally NMC136Y1/210Y1/230Y1/NML155H1/156H1/210Y1/150Y1

Exclusion: NMC305Y1

### NML405Y1 Intermediate Akkadian 78S (formerly NMC405Y1)

(Offered in alternate years)

Prerequisite: NML305Y1/NMC305Y1

Exclusion: NMC405Y1

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## Arabic

### NML210Y1 Introductory Standard Arabic 78L,26P (formerly NMC210Y1)

Introduction to the grammar and basic vocabulary of standard or literary Arabic, the one language written and read, and also spoken by those educated to speak it, throughout the Arab world.

Exclusion: Native users/NMC210Y1. Priority enrollment will be given to declared NMC majors/specialists.

### NML310Y1 Intermediate Standard Arabic 78L,26P (formerly NMC310Y1)

Begins with a review of basic grammar and proceeds with the reading of simple, connected prose passages that typify normal patterns of Arabic syntax. More literary and idiomatic passages are introduced gradually.

Exclusion: Native users/NMC310Y1. Priority enrollment will be given to declared NMC majors/specialists.

Prerequisite: NML210Y1/NMC210Y1

### NML410Y1 Advanced Standard Arabic 78S (formerly NMC410Y1)

Connected passages of Arabic texts drawn from both classical and modern times are studied in detail.

# Near and Middle Eastern Civilizations

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Exclusion: NMC410Y1; Native users of Arabic must obtain permission of instructor.

Prerequisite: Two years of Arabic

**NML411H1 Readings in Arabic Newspapers 26S**  
(formerly NMC411H1)

Directed readings of passages drawn from well-known Arabic newspapers such as: al-Ahram (Egypt), al-Ra'y (Jordan), al-Safir (Lebanon), al-Khalij (UAE), and al-Haya (UK). The course is designed to make advanced students of Arabic familiar with the language, style and topics of the Arabic Press.

Exclusion: NMC411H1; Native users of Arabic must obtain permission of instructor.

Prerequisite: NML310Y1/NMC310Y1 or adequate reading knowledge of Arabic

**NML412Y1 Survey of Classical Arabic Literature 52S**  
(formerly NMC412Y1)

Systematic outline of the development, characteristics, and peculiarities of selected genres of classical Arabic literature such as historiography, belles-lettres (adab), philosophy, ethics - Qur'an, exegesis, Literature of Tradition - poetry. Complementary readings, analysis and translation of original text passages are given emphasis.

Prerequisite: Two years of Arabic or adequate reading knowledge

Exclusion: NMC412Y1

**NML413H1 Islamic Thought in Mediaeval Arabic Sources 26S**  
(formerly NMC413H1)

Insights into the history of ideas in Islam. Original texts by Jurjani (d. 1078, literary criticism), Ghazali (d. 1111, philosophy), Ibn Rushd (d. 1196, law), Shahrastani (d. 1153, heresiography), Ibn Taymiyah (d. 1328, dogmatics), and Ibn Khaldun (d. 1406, social history). (Offered in alternate years)

Prerequisite: Adequate reading knowledge of Arabic  
Exclusion: NMC413H1

**NML414H1 Qu'ranic Arabic 26L**

This course offers students of Arabic the opportunity to study more closely the text of the Qur'an. The course will focus on the Arabic language of the Qur'an and its function both semantically and aesthetically. Selected Qur'anic passages will be examined in detail.

Prerequisite: Completion of Advanced Arabic, or equivalent qualification determined by the Department. Permission of the instructor is required.

**NML 415H1 The Structure of Arabic Language 26L**

This course is an investigation of the formal properties of Modern Standard Arabic. Its primary goal is to provide the student with an in depth knowledge of the grammar of the language. To this end, the course makes use of concepts and tools of analysis common to contemporary generative linguistics.

Prerequisite: Knowledge of Arabic language is beneficial but not required.

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## Aramaic/Syriac

**NML220Y1 Introductory Aramaic 78S**  
(formerly NMC315Y1)

Introduction to Aramaic grammar. Readings from biblical Aramaic. (Offered in alternate years)

Prerequisite: Introductory Biblical Hebrew (NMC230Y1/NML150Y1)

Exclusion: NMC315Y1

**NML320H1 Intermediate Aramaic: Targum 39S**  
(formerly NMC415H1)

An intensive study of various Targumim to the Pentateuch: Onkelos, Pseudo-Jonathan, Neophyti, Samaritan and Fragment Targumim. Differences among them in vocabulary, syntax and verb usage are discussed, as well as their relationship to the Palestinian midrashim. (Offered in alternate years)

Prerequisite: NML220Y1/NMC315Y1

Exclusion: NMC415Y1/NMC415H1

**NML420Y1 The Jerusalem Talmud: Jewish Western Aramaic 52S**  
(formerly NMC416Y1)

The Talmud of the Land of Israel, also called Talmud Yerushalmi or Palestinian Talmud, is written in a mixture of Jewish Western Aramaic and Mishnaic 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. (Offered in alternate years)

Prerequisite: Permission of instructor

Recommended preparation: NMC315Y1/334Y1/NML220Y1/320H

Exclusion: NMC416Y1

**NML421Y1 Classical Syriac 78S**  
(formerly NMC418Y1)

(Offered in alternate years)

Prerequisite: NMC315Y1/NML220Y1

Exclusion: NMC418Y1

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## Coptic

**NML230H1 Elementary Coptic I 26L**  
(formerly NMC220H)

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.

Exclusion: NMC220H

**NML231H1 Elementary Coptic II 26L**

A continuation of NML230H1, Elementary Coptic I.

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## (Ancient) Egyptian

**NML240Y1 Introduction to Middle Egyptian 78S**  
(formerly NMC320Y1)

Grammar and reading of selected hieroglyphic texts.

Exclusion: NMC320Y1

## Near and Middle Eastern Civilizations

**NML241YI Ancient Egyptian Iconography 52S**  
(formerly NMC321H1)

This course deals with the recognition and interpretation of ancient Egyptian symbols and the representations of divine and royal figures as preserved in the epigraphic record.  
Prerequisite: NMC320YI/NML240YI  
Exclusion: NMC321H

**NML340YI Intermediate Egyptian 78S**  
(formerly NMC420Y1)

Middle Egyptian texts.  
Prerequisite: NMC320YI/NML240YI  
Exclusion: NMC420Y1Y

**NML440Y Ancient Egyptian Historical Texts 26L**

Texts of significance for the reconstruction and understanding of Egyptian History will be read in the original, and analyzed for content, style, and grammar. The social and archaeological context of these texts will also receive attention.  
Prerequisite: NML340YI (formerly NMC420Y1)

**NML441Y Ancient Egyptian Religious and Funerary Texts 26L**

Readings, analysis, and comparisons of selections from the Pyramid Texts, the Coffin Texts, and the New Kingdom mortuary literature; study of cultic, magical, and mythological texts relating to funerary and cultic beliefs and practices. All texts to be read in the original.  
Prerequisite: NMC340YI (formerly NMC420Y1)

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### Hebrew

**NML150YI Introductory Biblical Hebrew 78S**  
(formerly NMC230Y1)

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)/NMC230Y1

**NML155HI Elementary Modern Hebrew I 39L, 26P**  
(formerly NMC236H1)

Introduction to the fundamentals of Hebrew grammar and syntax through classroom and language laboratory practice. Emphasis on the development of oral and writing skills. (Offered in alternate years)  
Exclusion: Those who have completed Grade 4 Hebrew (or Grade 2 in Israel), NMC136Y/NMC236H1

**NML156HI Elementary Modern Hebrew II 39L, 26P**  
(formerly NMC237H1)

Introduction to the fundamentals of Hebrew grammar and syntax through classroom and language laboratory practice. Emphasis on the development of oral and writing skills. (Offered in alternate years)  
Prerequisite: NML155H/NMC236H1 or permission of instructor  
Exclusion: Those who have completed Grade 4 Hebrew (or Grade 2 in Israel), NMC136Y/NMC237H1

**NML250YI Intermediate Biblical Hebrew 78S**  
(formerly NMC330Y1)

Study of Hebrew grammar, providing a continuation of NMC230Y/NML150Y1. Through extensive reading of Hebrew in the books of Joshua-2 Kings, grammar is reviewed and

consolidated, and vocabulary expanded. (Offered in alternate years)

Prerequisite: OAC Hebrew/NMC230Y1/NML150Y1  
Exclusion: NMC330Y1

**NML251YI Intermediate Biblical Hebrew: Pentateuch 78S**  
(formerly NMC333Y1)

Study of Hebrew grammar, providing a continuation of NMC230Y1/NML150Y1. Through extensive reading of Hebrew in the books of Genesis-Deuteronomy, grammar is reviewed and consolidated, and vocabulary expanded. (Offered in alternate years)  
Prerequisite: OAC Hebrew/NMC230Y1/NML150Y1  
Exclusion: NMC333Y1

**NML255YI Intermediate Modern Hebrew 78S**  
(formerly NMC236H1, NMC237H1/  
NMC336Y1)

Intensive study of written and spoken Hebrew. (Offered in alternate years)  
Exclusion: Those who have completed Grade 8 Hebrew (or Ulpan level 2 in Israel), NMC236H1/237H1/336Y1  
Prerequisite: NMC136Y1/NML156H1

**NML350YI Advanced Biblical Hebrew 26L**  
(formerly NMC430H1/Y1)

Advanced Biblical Hebrew language, focusing on grammar through an extensive reading of the Hebrew Bible.  
Prerequisite: At least 2 years of Biblical Hebrew; permission of instructor  
Exclusion: NMC430H1/430Y1

**NML351H History Writings 26L**

This course examines ancient Israel's history writers, focusing on the Deuteronomistic History and the Chronicler's History. Attention will be given to linguistic forms, rhetorical style and goals, and comparison of national or ethnic self-perceptions.  
Prerequisite: NMC230Y1/NML150Y1

**NML352HI Myth and Story 26L**

An investigation of two closely related types of ancient Hebrew narrative: myth and story. Focus will be equally on Hebrew language, rhetorical style and goals, and when appropriate, the comparative ancient near eastern backdrop for the Hebrew texts.  
Prerequisite: NMC230Y1/NML150Y1

**NML353HI Jewish Apocalyptic Literature 26L**

This course provides an introduction to the study of the origin, form and function of ancient Jewish and related apocalyptic literature which flourished between 200 BCE and 200 CE, understood in its cultural and literary contexts.  
Exclusion: RLG325H1  
Prerequisite: NMC150H1/151H1/280H1/280Y1

**NML 354HI Law and Ritual 26S**

Law reflects the way in which society understands and organizes itself through common agreements and forms of restraint. This course examines the different ways religious and ritual legislation was generated in ancient Jewish communities and the different functions such legislation served in these communities. All texts to be read in the original.  
Prerequisite: NML 250Y1

# Near and Middle Eastern Civilizations

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**NML355YI    Advanced Modern Hebrew    52S**  
**(formerly NMC336HI/337HI/434YI)**

Advanced intensive study of written and spoken Hebrew. (Offered in alternate years)

Prerequisite: NMC336YI

Exclusion: OAC Hebrew, old numberings NMC336HI/337HI/434YI

**NML356YI    Babylonian Talmud    52S**  
**(formerly NMC334YI)**

Selections from a tractate in Babylonian Talmud in order to gain facility in the understanding of the dialogic structure of the legal discussions. Practice in the use of classical commentaries and critical aids to allow independent study of the text. (Conducted in Hebrew) (Offered in alternate years)

Prerequisite: OAC Hebrew/NMC237HI/230YI/NML150Y/156H

**NML357HI    Midrash Aggadah    26L**

The themes of Eros and Thanatos will be explored in Aggadic texts from Song of Songs Rabbah. This Midrashic text stands halfway in the tradition, both making use of earlier texts and being used by editors of later compilations. These interrelations will be the focus of our study as well as the relationship of work to Scripture.

Prerequisite: Intermediate Hebrew (Modern or Biblical)

**NML358HI    Mishnah and Tosefta    26L**  
**(formerly NMC331HI)**

Introduction to Mishnah and Tosefta, two of the three foundational documents of Middle Hebrew. In addition to studying specific features of this level of Hebrew, examining these compositions independently, and analyzing their interaction, students will examine current scholarly literature on these documents and their relationship to each other. (Offered in alternate years)

Prerequisite: Intermediate Hebrew (Modern or Biblical)

Exclusion: NMC331HI

**NML359HI    Prophecy    13S**  
**(formerly NML453HI)**

An examination of different concepts of prophecy in the Hebrew Bible and in later Second Temple traditions, such as Dead Sea Scrolls, Hellenistic Jewish writings, and early Christian writings.

Exclusion: NML453HI

Prerequisite: Advanced reading knowledge of Hebrew/Aramaic.

**NML450YI    Topics in Advanced Biblical Hebrew    26S**

Students will address special topics in Biblical Hebrew grammar. Prerequisite: NML350YI

**NML451HI    Advanced Babylonian Talmud    13S**

Students will be introduced to the problems of text criticism involving variant readings and the redaction of Talmudic texts. Problems of transmission of the text, its relationship to the Palestinian Talmud, Tosefta and other texts will be explored. Use of Medieval Talmudic commentaries will be addressed.

Prerequisite: Intermediate Hebrew (Modern or Biblical)

**NML452HI    Halakhic Midrashim    26S**  
**(formerly NMC432HI)**

This course familiarizes students with the methodology and terminology of the two midrashic systems: Devei R. Akiba and Devei R. Ishmael. Sections of all the midrashic halakha (Mekhilot, Sifra and Sifre) are studied and compared to other Tannaitic materials. (Conducted in Hebrew) (Offered in alternate years)

Prerequisite: Intermediate Hebrew (Modern or Biblical)/ Permission of instructor

Exclusion: NMC432YI/NMC432HI

**NML454HI    Midrash Before the Rabbis    26L**

An examination of how the Bible was interpreted in the closing centuries BCE and the first century CE, beginning with the Book of Jubilees. This text will be read in combination with related material from the Dead Sea Scrolls and the Biblical Apocrypha and Pseudepigrapha.

Prerequisite: Two years of Biblical Hebrew or Aramaic or Greek; or permission of instructor

**NML455HI    Modern Hebrew Poetry    13S**

A study of the poetic works of a major modern Hebrew poet. (Conducted in Hebrew) (Offered in alternate years)

Prerequisite: Permission of instructor

**NML456HI    Modern Hebrew Prose    13S**

A study of an important modern writer of Hebrew fiction. (Conducted in Hebrew) (Offered in alternate years)

Prerequisite: Permission of instructor

**NML457HI    Introduction to Comparative Semitics    26S**

Advanced language course placing ancient Hebrew within its geographic and typological context. Priority will be given to 1) methods used to reconstruct "proto-Semitic" and ancient Hebrew (versus the Tiberian Hebrew of the Hebrew Bible); 2) classifications of Semitic languages; 3) comparison of phoneme and lexical inventories, morphology and syntax; and 4) dialectal variation and dialect geography.

Prerequisite: permission of instructor.

Recommended Preparation: NML150YI, 250YI, and one NML 300-series course

## Persian

**NML260YI    Introductory Persian    78S**  
**(formerly NMC240YI)**

The fundamentals of modern standard Persian grammar, with emphasis on attaining fluency in reading and writing simple texts. Also serves as a basis for classical Persian. (Offered in alternate years)

Exclusion: Native users/NMC240YI. Priority enrollment will be given to declared NMC majors/specialists

**NML360YI    Intermediate Persian    78S**  
**(formerly NMC340YI)**

Reading of a variety of modern prose texts on the intermediate level, with an emphasis on grammatical analysis and translation. Introduction to the classical language in the second term, with readings from selected authors. (Offered in alternate years)

Exclusion: NMC340Y/Native users. Priority enrollment will be given to declared NMC majors/specialists

Prerequisite: NMC240YI/NML260YI

**NML460YI    Classical Persian Literature    52S**  
**(formerly NMC441YI)**

Introduction to classical Persian poetry, including the Persian national epic and the mystical tradition, and survey of the development of classical Persian prose, based on readings from selected authors. (Offered in alternate years)

Prerequisite: NMC340YI/NML360YI or adequate knowledge of Persian

Exclusion: NMC441YI

## Near and Middle Eastern Civilizations

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**NML461HI Modern Persian Poetry 26L**  
(formerly NMC442HI)

A survey of modern Persian poetry using connected passages of Persian texts.

Prerequisite: NML360YI/NMC340YI or adequate reading knowledge

**NML462HI Modern Persian Prose 26L**  
(formerly NMC443HI)

A survey of modern Persian prose using connected passages of Persian texts.

Prerequisite: NML360YI/NMC340YI or adequate reading knowledge

### Turkish

**NML270YI Introductory Turkish 78S**  
(formerly NMC245YI)

The basic features of modern Turkish grammar. In the second term, Turkish prose and newspapers are studied, with some practice in writing simple Turkish. This course serves as a basis for the study of Ottoman Turkish. (Offered in alternate years)

Exclusion: Native speakers/NMC245YI

**NMC370YI Intermediate Turkish 78S**  
(formerly NMC345YI)

Modern texts literary, scholarly and journalistic. Turkish grammar and syntax; the nature of Turkish culture. (Offered in alternate years)

Prerequisite: NMC245YI/NML270Y or adequate reading knowledge of Turkish

Exclusion: NMC345YI

### Literature in Translation Courses

**NMC150HI Hebrew Bible and Ancient Jewish Literature in Translation 26L**  
(formerly (NMC280Y/280HI)

An introduction to the critical study of the Hebrew Bible/Old Testament and related literature of ancient Jewish communities (Apocrypha, Pseudepigrapha, Dead Sea Scrolls). No prior work in biblical studies or knowledge of Hebrew is required.

Exclusion: NMC280HI/280YI

**NMC151HI The Bible and Its Interpreters 26L**

Acquainting students with the principal parts of the Hebrew Bible and studying some of the different ways in which it has been read and interpreted in various periods, from antiquity to modern times, the course will concentrate on the central biblical figures whose stories will be examined in the ancient Israelite context, then compared with later elaborations by Jewish and Christian interpreters.

**NMC251HI Ancient Egyptian Literary Texts 26L**

Explores a variety of different genres of ancient Egyptian literature, including wisdom literature, funerary texts, poetry, stories and other literary texts. Prior attendance of an introductory history and culture course such as NMC101YI may be helpful, but is not required.

**NMC252HI Ancient West Semitic Literature 26L**

Introduction to the epic, religious, and historical texts that provide the immediate religious, social, and political backdrop for ancient Israel and its most prominent textual product, the Bible. Texts will be studied in translation.

Recommended preparation: NMC 150Y.

**NMC253HI Ancient Egyptian Cultural Texts 26L**

Introduction to various genres of Egyptian texts, with a focus on those writings that provide information about aspects of funerary/religious beliefs and ritual, of history, politics and institutions, and of the Egyptian quest for knowledge of the world, as evinced in astronomical, medical, and mathematical sources. Literary texts will be treated in so far as they relate to the listed topics. No knowledge of the ancient Egyptian language(s) is required; all texts to be read in translation. Prior attendance in an introductory history and culture course such as NMC101Y may be helpful, but is not required.

**NMC254HI Modern Hebrew Literature in Translation 26L**

This course will survey Hebrew literature, primarily of the 19<sup>th</sup> and 20<sup>th</sup> centuries. After a brief overview of ancient and medieval Hebrew literature, the course will concentrate on the classics of the modern Hebrew revival, studying selected works by Bialik, Tchernikhovsky, Agnon, and Brenner. Students will also be introduced to contemporary Hebrew writers and poets such as Aharon Appelfeld, Yehuda Amichai, Amos Oz, and A.B. Yehoshua. All works will be studied in translation.

**NMC255HI Arabic Literature in Translation 26L**

Representative Arabic poems of the pre-Islamic period, followed by certain aspects of the Qur'an. Development of lyric poetry in the Islamic period and of prose, with emphasis on narrative prose. (Offered in alternate years)

**NMC256YI Literature and Culture of Modern Israel 52L**

Introduces students to the culture of modern Israel through Israeli literature produced from 1948 - present. Focus will be primarily on selected short fiction, poems, plays, songs and films. Some themes explored are: tradition and modernity; traumas of war; the call of history; religion and secularism; and challenges of independence. In English translation. (Offered in alternate years)

**NMC257HI Introduction to the Literature of the Jewish Sages 26L**  
(formerly NMC257YI)

A gateway course designed to introduce students to the variety of literary works produced by the Jewish sages who became known as the rabbis. These works are the classical texts of Judaism which, after the Bible, created normative Judaism. Sample reading in translation will acquaint students with these works. (Offered in alternate years)

Exclusion: NMC257YI

**NMC258HI Tales from the Masnavi of Rumi 26L**  
(formerly NMC258YI)

Introduces students to the greatest mystical poet of the Perso-Islamic tradition, Maulana Jalal al-Din Rumi (d. 1273). Topics include divine love and mystical union, imagination, and esoteric interpretation of the Qur'an. Also introduces the main ideas of Sufism and the figurative language of Persian mystical poetry. In English translation. (Offered in alternate years)

Exclusion: NMC258YI

**NMC259HI Armenian Literature in Translation 26L**

This course offers selected texts written between the 5<sup>th</sup> and the 19<sup>th</sup> centuries CE, including pre-Christian epic stories, the Armenian version of the Bible, hagiography, chronicles, translations from Syriac and Greek; poetry and secular literature of the early modern period. All works studied are in English translation.

# Near and Middle Eastern Civilizations

## **NMC350HI Syriac Literature in Translation 26L**

Selected texts from Syriac literature written between the 3rd and 13th centuries C.E., including versions of the Bible and prominent authors of biblical commentaries, hymns, acts of martyrs, liturgical texts, historiography, grammatical and lexicographical works, as well as translations from Greek. (Offered in alternate years)

Recommended preparation: NMC101Y1

## **NMC352HI Faith and Doubt in Modern Hebrew Poetry 26L**

An exploration of the relationship of modern Hebrew poetry to the Jewish religious tradition. The focus of the course will be to discern whether modern Hebrew poetry constitutes a rebellion against that tradition, or whether it is a source of continuity and revitalization. (Offered in alternate years)

### Archaeology Courses

## **NMC260Y1 The Archaeology of the Ancient Near East 78L**

A general introduction to the archaeology of the ancient Near East including prehistory, Syria-Palestine, and the high civilizations of Mesopotamia and Egypt. Organized chronologically to trace the historical development of agriculture, urbanism, and complex state-ordered societies in the region.

## **NMC261Y0 Field Archaeology (formerly NMC261HI) TBA**

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.

Exclusion: NMC261HI

## **NMC360HI Archaeology of the Biblical World I: The Bronze Age (formerly NMC361Y1) 26L**

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. (Offered in alternate years)

Prerequisite: NMC260Y1

Exclusion: NMC361Y1

## **NMC361HI The Archaeology of the Biblical World II: The Iron Age (formerly NMC361Y1) 26L**

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. (Offered in alternate years)

Prerequisite: NMC260Y1

Exclusion: NMC361Y1

## **NMC362Y1 The Art and Archaeology of Ancient Egypt 26L**

Architecture, formal arts, and decorative arts to the end of the Pharaonic period. Cultural evolution rather than art history.

(Offered in alternate years)

Prerequisite: NMC260Y1

## **NMC363HI The Archaeology of Historical Mesopotamia I 3000-1600 BCE (Formerly NMC363Y1) 52L**

The archaeology, art and architecture of Iraq, North Syria and western Iran from ca. 3000 - 1600 BCE. The civilizations of Sumer, Akkad, Babylonia and Assyria, as well as their relationship to those of the surrounding areas. (Offered in alternate years)

Exclusion: NMC363Y1

Prerequisite: NMC260Y1

## **NMC364HI The Archaeology of Historical Mesopotamia II 1600-330 BCE (Formerly NMC363Y1) 52L**

The archaeology, art and architecture of Iraq, North Syria and western Iran from ca. 1600 B.C.E. to the Persian period. The civilizations of Sumer, Akkad, Babylonia and Assyria, as well as their relationship to those of the surrounding areas. (Offered in alternate years)

Exclusion: NMC363Y1

Prerequisite: NMC260Y1

## **NMC366Y1 The Islamic City 52L**

Architectural studies, historical sources and archaeological research are used to examine the physical and social morphology of the pre-industrial Islamic city from Central Asia to North Africa and Spain, from the 7th to the 17th centuries.

## **NMC369Y1 Archaeological Materials and Industries 26L**

Materials and technology help define the cultures and civilizations that use them, especially for archaeologists. Focusing on the Near and Middle East, this course is aimed at promoting understanding of the nature of materials used by the peoples of the region from the earliest prehistory until recent times. This course has a hands-on emphasis. (Offered in alternate years)

Recommended preparation: NMC260Y1

Exclusion: NMC369HI

## **NMC394HI Later Islamic Art & Architecture 39L**

A continuation of NMC393HI, covering Islamic art and material culture in the years from the 13th century CE to the modern period. Workshop sessions with the Royal Ontario Museum collection.

Prerequisite: One course in either an Islamic field or Fine Art History.

Recommended Preparation: NMC393HI

## **NMC461Y1 Problems in the Archaeology of the Ancient Near East 52S**

Prerequisite: 1.5 courses from NMC361Y1/362Y1/363HI/364H/363Y/465HI/466HI; two courses from NMC370Y1/371Y1/372Y1/343H/344H/346H/347H

## **NMC462Y1 Polarized-light Microscopy in Archaeology (formerly NMC462HI) 13L, 39P**

The use of polarized-light microscopy in the examination of ceramics, stone, other materials, and microstratigraphy. Lectures in elementary optical mineralogy and case-studies are followed



## Near and Middle Eastern Civilizations

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by lab sessions in which typical thin-sections of pottery, rocks, soils and other materials are studied. (Offered in alternate years)

Exclusion: NMC462HI

Prerequisite: NMC369HI/NMC369YI

**NMC464HI Mediaeval Middle Eastern Ceramics 13L, 26P**

An intense view of the basic corpus of pottery from the Middle East, ca. 700-1800 C.E. The identification of technology, form, and style of the main ceramic groups, enabling identification, dating and attribution of original provenance. (Offered in alternate years)

Prerequisite: NMC260YI

**NMC465HI Ceramic Analysis (formerly NMC364HI) 26S**

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.

Exclusion: NMC364HI

Prerequisite: ARH312YI/NMC361YI/369HI/369YI

**NMC466HI Near Eastern Ceramics (formerly NMC367HI) 26S**

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: NMC260YI, 465HI

**NMC467HI Archaeology and Material Culture of Ancient Egypt I: Predynastic Period to Middle Kingdom 26S**

The archaeology and material culture of ancient Egypt, with emphasis on the theoretical and methodological issues inherent in interpreting the archaeological record. Students will also work directly with artifactual material from the Egyptian collection of the ROM.

Prerequisite: NMC371YI/NMC343H and NMC344H

**NMC468HI Archaeology and Material Culture of Ancient Egypt II: Second Intermediate Period to Greco-Roman Period 26S**

The archaeology and material culture of ancient Egypt, with emphasis on the theoretical and methodological issues inherent in interpreting the archaeological record. Students will also work directly with artifactual material from the Egyptian collection of the ROM.

Prerequisite: NMC371YI/NMC343H and NMC344H

**NMC 469YI Contextualizing Medieval Middle Eastern and Islamic Pottery 26L**

This course will use ceramics as the central core to study the material culture of the medieval Middle East and the central Islamic lands. As such they will be the running narrative, to which other materials will be referred, or in turn used to refer to other materials. The same motifs found on ceramics may be found in the contemporary buildings, textiles or woodwork; the same forms are found in metalwork and glass; illustrations on ceramics will survive better than contemporary manuscript paintings, and there are more illustrations of, for instance, medieval swords to be found on pottery than there are actual swords. The course will rely heavily on the collections of

the ROM, and provide a thorough grounding on the technical production and typological variability of the various types of materials attested within their archaeological and cultural context.

Prerequisite: NMC260YI, one other 300+ level course in archaeological materials

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### History Courses

**NMC250HI Dead Sea Scrolls (formerly NMC329HI) 26L**

An examination of the political context in which these scrolls were produced and preserved.; different theories of who produced these texts, e.g., Sadducees, Zadokite Priests or Essenes; the way the scrolls use earlier biblical traditions. No Hebrew/Aramaic required; students with background in these languages will have opportunities to use them.

Exclusion: NMC329HI, 331H, last offered in 2001-02 in Hebrew language

**NMC270HI History of Syriac Christianity 26L**

The birth of Christianity in Syria and Mesopotamia and the rise of the Monophysite and Nestorian Churches; their life under the Byzantines, Sassanians, Arabs, Mongols and Ottomans. The role of Syrian Christians in diplomacy, science, missions, and relations with other churches. (Offered in alternate years)

Recommended preparation: NMC101YI

**NMC271HI Arabia Before Islam 26L**

Surveying conditions present in the region dominated by the Byzantine and Sasanian empires prior to the rise of Islam (6th-7th C.E.) in order to better understand the environment in which Islam was born, and the features which allowed for the birth of a new religion and a new civilization.

**NMC272H Byzantines to Seljuks 26L**

Rather than being a survey of political history of the Byzantine Empire this course covers selected topics relating to institutions, society, economy, and culture of the era.

**NMC273YI Islamic History to the Fall of Baghdad (1258) 52L**

Features of the pre-Islamic Middle East inherited by Islamic civilization, birth of Islam, life and times of Muhammad, formation of Islamic empire and civilization, political disintegration of the caliphate, emergence of autonomous dynasties, the fall of Baghdad to Mongols in 1258 and the rise of the Mamluks.

**NMC274HI The Steppe Frontier in Islamic History (formerly NMC274YI) 26L**

Eurasian steppe nomads as slave-soldiers, conquerors, world-empire builders throughout pre-modern Islamic Middle East and Central Asia. Topics include pastoral nomadism, steppe politics and warfare, conversion, jihad. Provides basis for understanding past and present issues of lands, such as Iran, Afghanistan, India, Syria, Egypt and Turkey, where Turks and Mongols played decisive historical roles. (Offered in alternate years)

Exclusion: NMC274YI

**NMC275HI Muslims & Jews: The Medieval Encounter 26L**

An introduction to the encounter between Jews and Muslims in medieval times, when a majority of Jewish people subsisted under Muslim rule. An overview of religious/political/intellectual

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settings of the Judeo-Muslim experience is followed by exploring cultural cross-pollination, the Jews' legal status under Islam, and interfaith politics. Source materials in translation.

Exclusion: NMC275Y1

**NMC276Y1 Social Movements and Civil Society in the Middle East 52L**

This course examines the transformation of Middle Eastern societies from the perspective of non-state actors, especially the social and political movements of peasants, women, labour, students, and other social groups.

**NMC278HI Introduction to the Modern Middle East 26L (formerly NMC 278Y1)**

Historical survey of the principal countries of the Middle East in the 19th and 20th centuries. Themes include the interplay of imperial and local interests, the emergence of national movements, and the formation of modern states.

Exclusion: NMC278Y1

**NMC279HI History of Armenian Christianity 26L**

A survey covering early Christianity in Greater Armenia – the role of Gregory the Illuminator; Christological controversies of the 5th century and Armenian Christianity; early Christian art and architecture; the life of the Armenians under the Sassanians and the Byzantines; and subsequently under the Abbasids, Saljuks, Mongols, Safavids and Ottomans.

**NMC324HI Greek Speaking Judaism of the Second Temple Period 26L**

A study of the Jewish community that produced the Greek Bible (Septuagint). Philosophical texts (Philo of Alexandria), historical narratives (Pseudo-Aristeas, Josephus), liturgical (Synagogue Prayers) and interpretive texts (Testaments of the Twelve Patriarchs, Joseph and Asenath). No Greek/Hebrew required; students with background in these languages will have opportunities to use them.

**NMC343HI History of Ancient Egypt I: Predynastic Period to Middle Kingdom (formerly NMC371Y1) 26L**

The political and cultural history of Egypt from the later predynastic period through the Middle Kingdom; the use of both archaeological and literary evidence.

Exclusion: NMC101Y1 may not be taken in the same year, NMC371Y1

Recommended preparation: NMC101Y1

**NMC344HI History of Ancient Egypt II: Second Intermediate Period to Greco-Roman Period (formerly NMC371Y1) 26L**

The political and cultural history of Egypt from the Second Intermediate Period through the Middle Greco-Roman Period; the use of both archaeological and literary evidence.

Exclusion: NMC101Y1 may not be taken in the same year, NMC371Y1

Recommended preparation: NMC101Y1

**NMC346HI Ancient Mesopotamia I: Sumerians and Akkadians (formerly NMC372Y1) 26L**

The political and cultural history of the peoples of ancient South-Western Asia from 3000BCE to the destruction of Babylon by the Hittites ca. 1600 BCE. (Offered in alternate years)

Exclusion: NMC101Y1 may not be taken in the same year, NMC372Y

Recommended preparation: NMC101Y1

**NMC347HI Ancient Mesopotamia II: Assyrians and Babylonians (formerly NMC372Y1) 26L**

The political and cultural history of the peoples of ancient South-Western Asia from ca. 1600 BCE to the conquest of Babylon by Alexander the Great in 331 BCE (Offered in alternate years)

Exclusion: NMC101Y1 may not be taken in the same year, NMC372Y

Recommended preparation: NMC101Y1

**NMC348YI History of Iran from the Sasanians to the Safavids (formerly NMC375Y1, 348HI, 349HI) 52L**

The political history and cultural legacy of the Sasanian empire before the Arab conquests of Iran in the 7th-8th centuries, with a focus on the transmission of Persian concepts of kingship, administration, and social organization into Islamic civilization. The rise of native Iranian dynasties in the eastern Islamic world and the creation of the Perso-Islamic cultural synthesis under the Samanids in the 10th century. The history of greater Iran (including Central Asia and Afghanistan) under the rule of Turkic and Turko-Mongolian dynasties, such as the Ghaznavids, Seljuqs, Ilkhanids, and Timurids, with special attention to the interaction between nomadic and sedentary cultures. The emergence of the Safavid state in the 16th century, a watershed in the political and religious history of Iran, to the early modern period in the 18th century.

Recommended Preparation: NMC273Y1/274HI/274Y1

Exclusion: NMC375Y1/348HI/349HI

**NMC355HI The Ottoman Empire in the Age of Reform, 1808-1918 26L**

The last phase of the Ottoman empire has long been viewed by Orientalists and Middle East nationalists as a period of inevitable decline. More recently, cultural historians of the Middle East have framed the long 19th. century as a period of grand reforms - or Tanzimat. This course seeks to critically examine the notions of 'reform of the state' and 'reform of the individual' between Sultan Mahmud II's accession and the defeat of the Ottoman empire in World War I. Focusing largely on Istanbul and the Ottoman capital's political relations with the Arab provinces, we will relate economic, social and intellectual transformations to state laws and policies, Mediterranean capitalism and the rise of sectarianism and nationalism in the Middle East.

Recommended preparation: NMC276Y1/278HI/278Y1/353HI/377HI/377Y1/378HI/378HI

**NMC357HI Communications Media of the Middle East (formerly NMC357Y1) 26L**

The Middle East and Far East are the birthplace of the world's most important communication revolutions, writing and its mechanization, i.e., printing. However, the modern mass media including journalism, film, radio, and television as well as communication technologies such as telegraphy, telephony, photography, sound recording, photocopying, computers, satellites, facsimile and Internet originated in the West. These media are important actors in the social, cultural, and political life of the Middle East, and its diasporas in the West. This course deals with, among other topics, media, state and empire formation; the social and historical contexts of the rise of

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modern mass media; the formation of reading, listening and viewing publics; civil society, public spheres and democratisation; media and social movements; media, language and nation; satellite broadcasting; "high" and "popular" cultures; radio wars; the Internet; communication rights. Evaluation will be based on participation, weekly writing assignments, one major research paper or a final exam.

Exclusion: NMC357YI

Prerequisite: NMC 278H/278Y or permission of the instructor.

**NMC 358HI Mass Media, the Middle East, and the West 26L**  
(formerly NMC357YI)

Mass media and popular culture play a prominent role in the ways in which Western societies understand the Middle East. This course examines a variety of academic approaches to the study of the world's changing media environments in the context of relations between the West and the Middle East.

Exclusion: NMC357YI or permission of the instructor

Prerequisite: NMC 278HI/278YI

**NMC359HI Iranian Constitutional Revolution 26L**  
(formerly NMC359YI)

Explores competing narratives of the Constitutional Revolution (1906–1911), particularly the transformation of public and private spheres and their corresponding modes of collective and personal self-presentation. Students explore revolutionary legacies, and the ways in which competing political, religious and ideological forces have attempted to shape the Revolution's memory. (Offered in alternate years)

Exclusion: NMC373HI may not be taken in the same year; NMC359YI

Recommended preparation: NMC278HI/278YI

**NMC370YI Ancient Israel 52L**

The political and cultural history of ancient Israel from the origin of the Hebrews to the exile and restoration in the Persian period. (Offered in alternate years)

Exclusion: NMC101YI may not be taken in the same year

Recommended preparation: NMC101YI

**NMC373HI Turkey and Iran in the 20th Century 26L**  
(formerly NMC373YI)

A survey of the social, cultural, and political transformations of Turkey and Iran in the context of Eurasian and international relations. (Offered in alternate years)

Recommended preparation: NMC278HI/278YI

Exclusion: NMC359HI may not be taken in the same year; NMC373YI

**NMC374HI History of Islamic Egypt 26L**  
(formerly NMC374YI)

A survey of the history of Egypt under Islamic rule from the Arab to the Ottoman conquest (1517 C.E.), including the Fatimid, Ayyubid and Mamluk dynasties. Issues treated thematically include conversion and inter-communal relations, relations with Syria, militarization of the political structure, including the military slave (mamluk) institution, religious currents, the impact of the Crusades and Mongol invasions, commercial and diplomatic relations, the emergence of Cairo as the centre of the later mediaeval western Islamic world. (Offered in alternate years)

Recommended preparation: NMC273YI

Exclusion: NMC374YI

**NMC376HI History of Islamic Spain and North Africa (640-1492) 26L**

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. (Offered in alternate years)

Recommended preparation: NMC273YI

**NMC377YI The Ottoman Empire to 1800 26L**  
(formerly NMC377HI, 353HI)

History of the emergence of the Ottoman state and its evolution from a border principality in Asia Minor into an empire. Ottoman expansion into Europe, Asia and Africa. The empire at its height under Süleyman the Lawgiver. The development of important administrative and military institutions. First military and diplomatic setbacks.

Recommended preparation: NMC272H/273Y

Exclusion: NMC353HI/377HI

**NMC378HI Themes In Modern Arab History 26L**  
(formerly NMC378YI)

A thematic treatment of the Arab lands of the Middle East and North Africa from 1700 onward, focusing on the Ottoman and colonial periods.

Recommended preparation: NMC278HI/278YI

Exclusion: NMC378YI

**NMC471HI Topics in Early & Medieval Islamic History 13S**

A seminar organized around readings on a topic selected by the instructor. Possible topics might include authority and power in medieval Islamic society in the Middle East, slavery, women, taxation, landholding, iqta' and payment of the military, waqf, etc. (Offered in alternate years)

Prerequisite: Permission of the instructor

**NMC472HI Theory & Method in Middle East Studies 13S**

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.

Prerequisite: Permission of the instructor

**NMC473HI Intellectuals of the Modern Arab World 13S**  
(formerly NMC385YI/NMC355HI)

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. (Offered in alternate years)

Recommended preparation: NMC276YI/278HI/278YI/353HI/377HI/377YI/378HI/378YI

Exclusion: NMC385YI/NMC355HI from 2005-06

**NMC474HI Contemporary Iraq 13S**

Although Iraq is the site of the earliest major revolutions in history (communication, agrarian and urban revolutions), this course is a survey of more recent history, i.e., the creation of the Iraqi state under British rule, its role in post-WWI colonial projects, the Cold War, and regional and international conflicts. Focus will be on the emergence of Iraqi nationalism, Kurdish nationalism, political Islam, social movements, as well as the Iraq-Iran war of 1980-88, the U.S. wars of 1991 and 2003, and the

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outcomes of these wars. Evaluation will be based on participation, weekly writing assignments, and one major research paper.  
Prerequisites: NMC278H/278Y or NMC276 or permission of the instructor.

## **NMC475HI Orientalism & Occidentalism 13S**

This course probes the contemporaneous formation of modern Oriental Studies in Europe and the emergence of discourses on Europe (Iffranj/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.

Prerequisites: NMC278H/278Y or NMC276 or permission of the instructor.

## **NMC476HI Violence and Civil Society in the Middle East 13S** **(formerly NMC477YI)**

While the ideas and practices of civil society in the Middle East date back to the late nineteenth century, the region has emerged as an enduring war zone of the world. This course examines the dynamics of conflict and coexistence in the heterogeneous societies of the region. Focus will be on Middle Eastern politics and practice of civil society, the nation-state system, and modernist forms of state and non-state violence such as massacre, genocide, crimes against humanity, ethnocide, ethnic cleansing, linguicide, racism, ethnocentrism, and xenophobia. Evaluation will be based on participation, weekly writing assignments, and one major research paper.

Exclusion: NMC477YI

Prerequisite: NMC278H/278Y or permission of the instructor.

## **NMC477HI Nationalist Movements in the Middle East 13S** **(formerly NMC477YI)**

Although the Middle East is often viewed, in the West, as an ethnically and religiously homogeneous region (Arab, Islamic), it is one of the world's diverse regions in language, culture, ethnicity, nationality, and religion. Nationalist movements, which emerged in the late nineteenth century, re-shaped the political, economic, linguistic and cultural make-up of the region. The course will focus on four state-nationalisms (Arab, Jewish, Persian, Turkish) and one non-state nationalism (Kurdish). Students are encouraged, in this seminar course, to study other nationalist movements. While course content is diverse, the approach to nationalism will be informed by the growing body of critical theories. Evaluation will be based on participation, weekly writing assignments, and one major research paper.

Exclusion: NMC477YI

Prerequisite: NMC278H/278Y or permission of the instructor.

## **NMC 478HI Readings in the Modern History of Arab Societies 13S**

A seminar built around thematic readings of social and economic history of the modern Arab world. Offered every other year.  
Prerequisite: NMC 378HI/378YI

## **NMC479HI Histories of Nationalism in the Arab World 52S** **(formerly NMC479YI)**

A seminar organized around readings in selected topics. The topics are related to the instructor's research interests. (Offered in alternate years)

Prerequisite: NMC378HI/NMC378YI or permission of instructor

Exclusion: NMC479YI

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## **Religion and Philosophy Courses**

## **NMC185HI Introduction to the Religion of Islam 26L** **(formerly NMC185YI)**

The place of Islam in world history, its central beliefs and practices. The Islamic contribution to world civilization; the pluralistic community, learning and the arts. Islam and modernity.

Exclusion: RLG204YI, NMC185YI

## **NMC281HI Prophets: Ancient Jewish Prophecy and Inspired Exegesis 26L** **(formerly NMC252HI)**

Practices and concepts of prophecy in the Hebrew Bible and Second Temple traditions such as Dead Sea Scrolls, Hellenistic Jewish writings, and early Christian writings. How did prophets, priests and scribes claim divine inspiration? How did they connect revelation and heavenly journey to textual authority and the production of Scripture?

Exclusion: NMC252HI

## **NMC284HI Judaism and Feminism 26S**

Explores the interaction between Jewish religious and secular movements and feminism. Investigates Jewish law (halakha) and the Jewish legal (halakhic) process in terms of feminist critique. Marriage, divorce, Torah study, bat mitzvah, other ceremonies, female rabbinic ordination and women's prayer groups are some of the topics considered. (Offered in alternate years)

## **NMC285HI The Qur'an: Spirit and Form 26L** **(formerly NMC285YI)**

Concern is mainly with the sacred character of the Qur'an (koran), its preeminence in Islam. Topics include: the idea of the sacred book, the Qur'an and the Bible, the influence of the Qur'an on Islamic spirituality, literature, theology, law, philosophy, and the various approaches taken in interpreting the Qur'an. Knowledge of Arabic is not required. (Offered in alternate years)

Recommended preparation: NMC185HI/I85YI/RLG204YI

Exclusion: NMC285YI/RLG351HI

## **NMC286HI The Qur'an: Reading and Transformation 26L**

This course is a continuation of NMC285HI. Students will be required to engage directly with the text in English or French translation, to discuss and write on major and minor quranic topics and themes and to study the works of other astute readers of the text. Arabic is not required or expected.

Recommended preparation: NMC285HI

Exclusion: NMC285YI/RLG351HI

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**NMC 287HI Mystical Dimensions of Islam and Judaism 26L**

The phenomenon of mysticism and the forms it took in the religions of Judaism and Islam. A survey of the main trends in each mystical tradition, with a focus on Sufism (Islamic mysticism) and Kabbalah (Jewish mysticism), both of which flourished during the mediaeval period. Parallel developments will be identified and possible mutual influences suggested. Readings in English translation include Attar's Conference of the Birds, Ruzbihan Baqli's Unveiling of Secrets, the Book Bahir, and the Zohar.  
Exclusion: HUM199HI/Y1Y L0302 (2003-2006)

**NMC380YI Religion and Myth in the Ancient Near East (formerly NMC380HI) 52L**

Religious belief and practice in Mesopotamia and Syria (Ugarit). (Offered in alternate years)  
Exclusion: NMC380HI  
Recommended preparation: NMC101YI

**NMC381HI Modern Islamic Thought (formerly NMC381YI) 26L**

A survey of major intellectual trends in the Islamic religious tradition, particularly those identified with Middle Eastern Muslim thinkers, from the eighteenth century until the present.  
Prerequisite: NMC185HI/201YI or RLG204YI  
Exclusion: NMC381YI

**NMC382YI Ancient Egyptian Religion (formerly NMC382HI and 383HI) 52L**

Religious belief and practice in ancient Egypt. The course will focus on gods and mythology, which will be studied through primary sources in translation. (Offered in alternate years)  
Recommended preparation: NMC101YI  
Exclusion: NMC382HI/NMC383HI

**NMC384HI Life Cycle and Personal Status in Judaism 26L**

Jewish attitudes to various personal status issues, such as the foetus, the minor, the pubescent child, and the mentally and physically challenged adult from biblical and rabbinic sources to modern Jewish positions. (Offered in alternate years)

**NMC387HI Islamic Mystical Tradition 26L**

Mysticism and spirituality in Islam: the Qur'an; doctrine; prayer; Sufism; Irfan (Shi'i mysticism). Themes include love, knowledge, authority, being, interpretation.  
Prerequisite: NMC185HI/185Y/RLG204Y

**NMC388HI Shi'i Islam I (formerly NMC386HI) 26L**

Subjects covered include: the rise and development of the Shi'i version of Islamic "orthodoxy" from the mid-7th to the mid-13th centuries CE. Distinctive Shi'i interpretations of the Qur'an will be examined.

Prerequisite: NMC185HI/185Y/RLG204YI  
Exclusion: NMC386HI

**NMC389HI Shi'i Islam II (formerly NMC386HI) 26L**

This course continues the study of Shi'ism from 1258 to the present day and will include the history and teachings of the various members of the Shi'i family of Islamic religion.

Prerequisite: NMC185HI/185Y/RLG204Y  
Exclusion: NMC386HI

**NMC481HI Muslim Gnostics and Mystics 26L**

This course will present for study a different prominent figure each year: Hallaj, Ghazali, Suhrawardi, Ibn Arabi, Rumi, Mulla Sadra, and so on. Attention will be given to their respective social and historical milieux, their modes of expression and experience, and the nature of their literary productions.

There is no prerequisite, but students must be advanced undergraduates in the Humanities.

Recommended preparation: NMC285HI/286HI/RLG351HI

**NMC484HI Gender-related Topics in Law and Religion (formerly NMC484YI) 26L**

Abortion, rape, family violence and similar topics from the perspective of historical and legal development, scientific theory, socio-ethical attitudes and anthropological comparison in the Bible and other ancient Near Eastern sources, through Jewish legal texts to modern responses. (Offered in alternate years)

Prerequisite: Permission of instructor

Exclusion: NMC484YI

### Art and Material Culture Courses

**NMC392HI The Taj Mahal and Its Origins 26L**

Monumental architecture, whether for secular or religious purposes, played a special role in Muslim societies, particularly in major centres such as Isfahan, Samarkand and Delhi. Beginning with the Taj Mahal (1632) the best-known elements of Islamic architecture the double dome, the pointed arch, glazed tiles are traced retroactively in Iran, Central Asia, and India, and their social context is studied. (Offered every three years)

Prerequisite: NMC391HI, 394HI or 2 courses in FAH

**NMC393HI Early Islamic Art & Architectures 26L**

A survey of the arts of the Islamic world from the 7th century to the Mongol conquest in the mid-13th century.

Prerequisite: One full course in Near Eastern/Islamic art & material culture

**NMC394HI Later Islamic Art & Architecture 26L**

A continuation of NMC393HI, covering Islamic art and material culture in the years from the 13th century CE to the modern period. Workshop sessions with the Royal Ontario Museum collection.

Prerequisite: One course in either an Islamic field or Fine Art History.

Recommended Preparation: NMC393HI

**NMC396YI From Alexander to Muhammad 52L**

An overview of late antique Greek, Arab and Persian material culture, as seen through the archaeological record of Syria, Iraq, and Iran.

### Research Courses

**NMC299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**NMC398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**NMC495YI Independent Studies**

Prerequisite: Permission of Department

## **Near and Middle Eastern Civilizations**

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**NMC496HI Independent Studies**

Prerequisite: Permission of Department

**NMC497HI Independent Studies**

Prerequisite: Permission of Department

**NMC499YI Directed Reading**

A course of study tailored to the individual needs or interests of advanced undergraduate students. A selection of readings chosen by the student, under the supervision of a faculty member on which the student may be examined serves as background preparation for the writing of a research paper.

Prerequisite: Permission of Department

**Neuroscience: see Life Sciences:  
Human Biology**

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## Faculty

### Associate Professors

D.L. Eyoh, MA, Ph D (African Studies)

### Senior Lecturers

A. Itwaru, Ph D (Caribbean Studies)

J. Larkin, BA, M Ed, Ph D (Women's Studies/Equity Studies)

R.G. Wilson, Ph D (Human Biology)

### Lecturers

D. Knott, MA, MTS (Paradigms and Archetypes/Writing Centre)

R. Michalko, Ph D (Equity Studies)

New College courses have in common a commitment to be explorative and inventive and to widen students' experience by critically examining relationships among academic disciplines. These courses take their place within such well-defined programs as Women's Studies, Human Biology, Equity Studies, Paradigms and Archetypes, African Studies, and Caribbean Studies. These programs are open to all students in the University.

Integration of student experience is a major concern 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 analytic, synthetic, and creative skills by writing a thesis.

### The African Studies Program

(Specialist, Major, Minor) offers opportunities to study Africa through a selection of courses devoted to African history, society and culture. The core courses are drawn from anthropology, history, literature and political science.

### The Buddhism, Psychology and Mental Health Program

(Minor) allows students to choose from a wide range of courses on mind, consciousness, cognitive science, psychology of religion, health psychology, and sociological analyses of physical and mental health to acquire an understanding of the contributions of Buddhism to the modern understanding of consciousness, mental health and illness, and determinants of physical health.

### The Caribbean Studies Program

(Specialist, Major, Minor) consists of courses in Caribbean history, literature and thought that deal with issues including gender, religion, politics, culture, ethnicity, race, development, language, colonialism and regional common markets.

### The Equity Studies Program

(Major) is an interdisciplinary program that examines various models - historically and culturally specific - for conceptualizing social inequities and for bringing about equity. It draws together discourses on equity from the humanities, social sciences and sciences.

### The Human Biology Programs\*

offer a broad education in life sciences with courses offered by departments in both the Faculties of Arts and Science, and Medicine.

\*Specialist: (1) Genes, Genetics and Biotechnology; (2) Global Health; (3) Health and Disease; (4) Human Behavioural Biology.

Major: Human Biology (See Life Sciences section of the Calendar.)

### The Paradigms and Archetypes Program

(Minor) provides opportunities for undergraduates in discipline-based programs to access, through a comparative analysis of primary sources, the structure and dynamics of "paradigms": archetypal narratives, assumptions, myths, fantasies, analytical protocols and methodologies which govern the conduct of disciplines in every field and all cultures.

### The South Asian Studies Program

(Specialist, Major, Minor) provides the opportunity for students to study traditional and modern South Asia. The history and culture of India, Pakistan, Bangladesh, and Sri Lanka are presented in courses offered by a number of departments.

### The Women and Gender Studies Program

(Specialist, Major, Minor) offers a wide variety of courses in a rapidly developing and intellectually fertile field. Courses cover such issues as the representation and social organization of sexual differences, women and health, gender issues in law, women in world cultures, women and issues of international development and the history of feminism. (See the Women and Gender Studies section of the Calendar.)

Contact:

Program Secretary's Office:  
New College, Room 132 (416-978-5404 or nc.programs@utoronto.ca)

Registrar's Office:  
New College, Room 107 (416-978-2460)

## New College Programs

### African Studies (Arts program)

Consult Program Director, Prof. S. Hawkins, New College, 416-978-3366. For general enquiries call 416-978-5404.

Enrolment in the Specialist, Major, and Minor programs in African Studies is open to students who have completed four courses; no minimum GPA required.

### Specialist program:

(11 full courses or their equivalent including at least one 400-series course)

### Core course requirements:

NEW 150Y1 (recommended in first year), NEW 450H1 (to be taken in the final year)

### Other requirements:

1. Four full course equivalents from Group A, to be chosen from at least two different departments/programs, one of which must be NEW 450H1
2. Two full course equivalents from Group B
3. Two full course equivalents from Groups A or B
4. A combination of two language full course equivalents as outlined in Group C
5. Four full course equivalents of the eleven courses must be 300/400 series (including at least one 400-series course) of which at least one must be from Group A and another from Group B

# New College

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## Major program:

(6 full courses or their equivalent)

## Core course requirements:

NEW 150YI (recommended in first year), NEW 450HI (to be taken in the final year)

## Other requirements:

1. Three full course equivalents from Group A, one of which must be NEW 450HI
2. Two full course equivalents from Groups B, or NEW 280YI and 380YI
3. At least two 300/400-series full course equivalents from Groups A and/or B

## Minor program:

(4 full courses or their equivalent)

## Core requirement:

NEW 150YI (recommended in first year)

## Other requirements:

1. One full course equivalent from Group A
2. One full course equivalent from Group B, or another one from Group A
3. One full course equivalent from Group B or NEW 280YI, NEW 281YI or NEW 380YI
4. At least one full course equivalent must be a 300+series course from Groups A and/or B

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## Group A (Courses that deal exclusively with Africa.

**These include but are not limited to the following):** HIS383HI, 396YI, 481HI, 486HI; NEW250YI, 252HI, 296YI, 322YI, 350HI, 352YI, 450HI; POL301YI, 488YI, 489HI; SMC209HI; an independent studies course approved by the Program Committee

## Group B (Courses that deal with Africa and/or one or more of its diaspora. These include but are not limited to the following):

ENG270YI; FRE332HI; HIS 294YI, 296YI, 305HI, 360YI, 366YI, 370HI, 393HI, 408YI, 446YI, 456YI, 475HI, 476YI, 487HI; INI327YI; NEW223YI, 224YI, 324YI, 325HI, 326YI; POL201YI, 321HI, 358HI, 403HI, 479HI; WGS 435HI, 440HI

## Group C:

(NEW280YI, 281YI, 380YI)/(FSL221YI, 331YI/341YI/ 431YI/ 362YI)/(NML210YI, 310YI)/(PRT100YI/ 110YI, 220YI); or two courses in a major African language approved by the Program Committee

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## Buddhism, Psychology and Mental Health (Arts program)

Consult Program Director, Prof. A. Toneatto, Centre for Addiction and Mental Health (CAMH), (416) 535-8501, ext. 6828. For general enquiries call 416-978-5404 or email [nc.programs@utoronto.ca](mailto:nc.programs@utoronto.ca).

Enrolment in the Minor program in Buddhism, Psychology and Mental Health is open to students who have completed four courses; no minimum GPA required.

## Minor Program:

1. NEW 214YI (Socially Engaged Buddhism) or RLG 206YI (The Buddhist Religious Tradition)

2. NEW 432YI (The Healing Mind: Theories and Applications of Buddhist Psychology – Formerly NEW402Y)
3. NEW 433HI (Advanced Topics) or PHL 240HI (Persons, Minds and Bodies)
4. 1.5 full course equivalent from :  
ANT C6H3; EAS369YI, NEW 214Y, 303HI (The Hypothesis of the Unconscious), 333HI (Special Topics), 433HI; PHL 240HI, B81H3, B86H3; UNI 250YI, 302HI; RLG 206YI, 211YI, 373HI; SOC 243HI, 363HI;

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## Caribbean Studies (Arts program)

Consult Program Director, Prof. D.A. Trotz, New College, 416-978-8286. For general enquiries call 416-978-5404 or email [nc.programs@utoronto.ca](mailto:nc.programs@utoronto.ca).

Enrolment in the Specialist, Major and Minor programs in Caribbean Studies is open to students who have completed four courses; no minimum GPA required.

## Specialist Program:

(10 full courses or their equivalent including at least one at the 400-level)

1. NEW 224YI, NEW 324YI
2. Eight full courses or their equivalent, with at least six from Group A, the remaining two from Group A or Group B.

## Major program:

(6 full courses or their equivalent including two at the 300+level)

1. NEW 224YI, 324YI
2. Four full courses or their equivalent from Group A or Group B, including at least one at the 300+level

## Minor program:

(4 full courses or their equivalent including one at the 300-level)

1. NEW 224YI, 324YI
2. Two courses from Group A or Group B

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## Group A:

ANT 426HI; ENG270YI; HIS 106YI, 294YI, 295HI, 333YI, 359HI, 370HI, 394HI, 456YI, 494YI; NEW 150YI, 223YI, 240YI, 325HI, 326YI, 327YI, 422YI, 423HI, 424YI, 426YI; POL 201YI, 301YI, 305YI, 347YI, 357YI, 358YI, 445YI; WGS 330HI, 369YI, 425YI

## Group B:

GGR 240YI, 249HI; HIS 232YI, 295HI, 390YI, 408YI, 446YI, 476YI; NEW 296YI, 322YI; POL 417YI, 418YI, 442HI, 488YI; RLG 204YI, 205YI; SOC 330YI, 336HI; SPA 380HI, 381HI, 382HI, WGS 435HI

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## Equity Studies (Arts program)

Consult Program Co-ordinator, Dr. J. Larkin, 416-978-8282. For general inquiries call 416-978-5404 or email [nc.programs@utoronto.ca](mailto:nc.programs@utoronto.ca).

Enrolment in this program is open to students who have completed four courses; no minimum GPA required.

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## Major program:

(7 full courses or their equivalent, including two full courses at the 300+level)



1. NEW 240YI
2. One full course equivalent from the core group below
3. Five full course equivalents from: Groups A, B, C, D, E (including one or more full-course equivalents from at least three of the five groups)

## Core Group

NEW 214YI, 241YI, 341HI, 342HI, 343HI, 344YI, 349HI, 441HI, 442HI, 444HI, 449HI

## Group A: Gender

CLA 219HI, 220HI; EAS 303HI, 452HI, 453HI; ENG 233YI, 307HI, 309HI, 355HI, 383HI; FCS497HI; FRE 304HI, 404HI; GER 421HI; GGR 327HI; HIS 202HI, 245YI, 306HI, 348HI 354YI, 366YI; 363HI, 366YI, 395YI, 418HI, 446YI, 481HI, 483HI; ITA 455HI; JAL 355HI; JHP 440YI; JNV300HI; JPP 343YI; NEW 325HI; NMC 284HI, 484HI; PHL 267HI; POL 351YI, 432HI, 450YI; PSY 323HI; RLG 236HI, 237HI, 314HI; SLA 248HI; SOC 214YI, 365YI, 366HI, 383HI; SPA 382HI, VIC 341HI, 343YI; VIS 209HI; WGS 160YI, 261YI, 262YI, 330HI, 334HI, 335HI, 336HI, 362HI, 363HI, 365HI, 366HI, 367HI, 368HI, 369HI, 372HI, 373HI, 374HI, 425YI, 460YI, 465HI, 470YI

## Group B: Race, Creed, Ethnicity

ANT 204YI, 325YI, 343YI, 344YI, 349HI, 367YI, 426HI, 446YI, 448HI, 453HI; ENG 268HI, 270YI, 275YI, 277YI, 355HI, 368HI; FIN 320H; HIS 208YI, 294YI, 295YI, 296YI 303YI, 312HI; 338YI, 341YI, 355HI, 360YI 370HI, 383HI, 384HI, 393HI, 394HI, 396YI, 408YI, 429YI, 442YI, 456YI, 475HI, 476HI, 494YI; INI 327YI; ITA493HI; JAP 256HI; NEW 150YI, 223YI, 224YI, 296YI 322YI, 324YI, 326YI, 424YI; NMC 276YI, 384YI, 477YI, 484HI; POL 304HI, 321HI, 403HI 425YI; RLG 220HI, 236HI, 237HI, 315HI, 344YI; SOC 210YI, 330YI, 336HI, 339HI; UNI 304HI, 307HI

## Group C: Sexual Diversities

ENG 273YI, 290YI; POL 315HI; PHL 243HI; UNI 255HI, 256HI, 354HI, 355HI, 365HI, 375HI, 455HI, 475HI; UNI 475HI; WGS 374HI

## Group D: General Equity

ABS 201YI, 250HI, 300YI, 301YI, 302HI, 320YI, 350YI, 351YI, 352HI, 353HI, 354HI, 402HI, 405YI; ANT 329YI, 342HI, 348YI, 362HI, 366YI, 425HI, 447HI, 452HI; DTS 201HI, 202HI; EAS 462HI; ECO 239YI, 332HI, 339YI, 340HI, 369YI, 424HI, 425HI; ENG 254YI; GGR 362HI, 363HI, 370HI; HIS 106YI, 313HI, 367HI; 369YI, 395YI, 459YI, 472HI; HPS 324HI; JAG 321HI; JFP 450HI; PHL 281YI, 384HI; POL 342HI, 344HI, 405YI, 412YI, 480HI; PRT 351HI; RLG 201YI; SOC 220YI, 301YI, 309YI, 360YI, 367HI, 370YI, 373HI, 374HI; SPA 380HI; UNI 317YI, 371HI; VIS 310HI

## Group E: Disability

PHL 383HI; SOC 360YI, 363HI, 373HI, 374HI; WGS 366HI

Note: students are responsible for checking the co- and prerequisites for all courses in Groups A, B, C, D and E

**Human Biology: see Life Sciences, Human Biology**

## Paradigms and Archetypes (Arts program)

Consult Program Director, Dr. Ann Yeoman, New College, 416-978-8659. For general enquiries call 416-978-5404 or email [nc.programs@utoronto.ca](mailto:nc.programs@utoronto.ca).

Enrolment in this program is open to students who have completed four courses; no minimum GPA is required.

## Minor program:

(4 full courses or their equivalent)

1. NEW 209YI
2. NEW 301YI/304YI
3. One full course equivalent from NEW 301YI (if not chosen in 2 above), NEW 302YI, NEW 303HI, NEW 304YI (if not chosen in 2 above), NEW 306HI, NEW 308HI, NEW 402YI, NEW 403HI, NEW 404HI, NEW 432YI
4. One full course equivalent from HPS 201HI, HPS 202HI, HPS 210HI, HPS 211HI, HPS 250HI; NMC 101YI, 185YI, 201YI; RLG 101YI, 204YI, RLG 205YI, RLG 206YI, RLG 211YI, RLG 231HI; any NEW courses listed in 3 above.

## South Asian Studies (Arts program)

Consult Program Director, Professor K. Goonewardena, 416-978-5526 or the Program Office, 416-978-5404 or email [nc.programs@utoronto.ca](mailto:nc.programs@utoronto.ca).

Enrolment in the South Asian Studies programs is open to students who have completed four courses; no minimum GPA required.

## Specialist program:

(10 full courses or their equivalent: including at least four 300+ series courses with at least one full course at the 400-level)

1. Two language courses from NEW 211YI, 212YI, 213YI, 311YI, 312YI, 315YI; or demonstrate intermediate (2nd Year level) proficiency in another South Asian language by examination administered by the South Asian Studies Program
2. NEW114YI
3. HIS282YI
4. NEW413HI
5. NEW414HI
6. One course from: POL201YI, POL417YI, POL445, or other social science course approved by the Director
7. One course from: EAS 368YI, 468YI; NEW 214YI, 306HI; NMC 185YI; RLG 100YI, 205YI, 206YI, 207HI, 209HI, 280YI, 361HI, 363HI, 365HI, 366HI, or other course in religion or philosophy approved by the Director.
8. Three additional courses from Group A (below); or five additional courses from Group A, in the case of a student satisfying the language requirement (see 1. above) by examination rather than by A&S courses

## Major program:

(6 full courses or their equivalent, including two 300+ series courses)

1. NEW114YI
2. HIS 282YI
3. Four additional courses from Group A (below)

# New College

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## Minor program:

(4 full courses or their equivalent, including at least one at the 300+ level; 2 courses must have full South Asian content)

1. NEW114Y1
2. Three approved courses from Group A (below)

Note: Some courses may be offered in alternate years.

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## Group A:

EAS 331Y1, 368Y1, 379H1, 468Y1; ENG 270Y1, 370H1; HIS 282Y1, 364H1, 381H1, 382H1, 386Y1, 389H1, 394H1, 470H1, 480H1, 481H1; HUM 101Y1; MUS 200H1; NEW 211Y1, 212Y1, 213Y1, 214Y1, 215H1, 216H1, 217H1, 224Y1, 306H1, 308H1, 311Y1, 312Y1, 315Y1, 324Y1, 326Y1, 413H1, 414H1; NMC 185Y1; POL 201Y1, 357Y1, 417Y1, 445Y1; RLG 100Y1, 205Y1, 206Y1, 207H1, 209H1, 280Y1, 361H1, 363H1, 365H1, 366H1; WGS 334H1, 368H1, 425Y1; or other courses with the approval of the Director of the SAS program

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## Women's Studies: see Women and Gender Studies

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## New College Courses

See page 33 for Key to Course Descriptions..

For Distribution Requirement purposes (see page 27), all NEW courses are classified as HUMANITIES courses except NEW 240Y1, 241Y1 and NEW250Y1, which count as SOCIAL SCIENCE or HUMANITIES course.

### African Studies Courses

**NEW150Y1 Introduction to African Studies 52L**  
A multi-disciplinary study of Africa, emphasizing inquiry and critical analysis. Pre-colonial, colonial and contemporary African history, anthropology, politics, African humanism and society, religion, art, music, race, resistance, gender and Pan-Africanism.

**NEW250Y1 Africa in the 21st Century: Challenges and Opportunities 52L, 26T**

An introduction to the study of Africa as a living place rather than merely a site for intellectual speculation and study. This course explores the issues that engage the attention of ordinary Africans, ranging from the dramatic to the seemingly trivial but quotidian concerns that occupy our lives. Topics covered will include urban life, family networks, kinship and social capital, religion and belief systems, indigenous government, courts and judicial processes, migration, and land tenure. Materials studied will include the various African media in Toronto – radio, television, newspapers, literature, religion, politics, sports, music, film and food – as well as BBC World Service, allAfrica and Panapress and several African socio-cultural journals and texts. This is a Humanities or Social Science course.

**NEW252Y1 African Systems of Thought 52L (formerly JAP256H1)**

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: JAP256H1/JAP356H1

**NEW280Y1 Introductory Swahili 26L, 78T**  
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. (Offered in alternate years)

**NEW281Y1 Introductory Somali 104L**  
Introduction to grammar and basic vocabulary of Somali. Emphasis on comprehension and oral practice. Reading of selected texts. Relation of the language to its cultural context in the Horn of Africa.

**NEW296Y1 Black Freedom 52L, 26T**  
People of African descent – from Olaudah Equiano to Angela Davis – have made profound contributions to the intellectual history and political practice of freedom in the Atlantic world. Black writers and historical actors have been at the vanguard of re-conceiving, implementing, and realizing the Enlightenment project of freedom.  
Exclusion: HIS296Y1

**NEW322Y1 The Contemporary African Novel 52S**  
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)

**NEW350H1 Special Topics in African Studies 26L**  
Topics vary from year to year, depending on the instructor. Recommended preparation: NEW150Y1

**NEW352Y1 African Cinemas 26L, 78P (formerly JN1388Y1)**

History and practice of African Cinemas studied from an interdisciplinary perspective through examination of films and production contexts, within the context of contemporary African history. (Offered in alternate years)  
Prerequisite: IN1115Y1/NEW150Y1  
Exclusions: JN1388Y1/INI483H1

**NEW380Y1 Intermediate Swahili 26L, 78T**  
Grammar and syntax. Conversation and written composition. Reading of texts: literary, journalistic. Relation of the language to its East African context. (Offered in alternate years)  
Prerequisite: NEW280Y1

**NEW450H1 Advanced Topics in African Studies 26S**  
A required course for all Specialists and Majors in the African Studies Program, enrolment is restricted to students enrolled in the program in their final year of study. The seminar is taught by the core faculty in the African Studies Program and is designed to build upon the accumulated knowledge of students and the interdisciplinary nature of the program. Topics vary from year to year.

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## Buddhism, Psychology and Mental Health Courses

**NEW214Y1 Socially Engaged Buddhism 52L**  
A comprehensive survey of socially engaged Buddhism. Particular focus on contemporary movements in Vietnam, Tibet, China & Taiwan, Sri Lanka, Thailand, and India. The role of women in Buddhism.

**NEW333HI Special Topics in Buddhism, Psychology and Mental Health 26L**

Topics vary from year to year, depending on the instructor.  
Recommended preparation: NEW214Y1/RLG206Y1

**NEW432YI The Healing Mind:Theories & Applications of Buddhist Psychology (formerly NEW402Y1) 52S**

Explores the contributions of Buddhism to the study of human consciousness and behaviour. Focus is on the expanding academic discourse on the intersection of Buddhist and Western theories of psychology, phenomenology and psychotherapy. Includes analyses of the application of Buddhist mindfulness meditation in clinical interventions for mental and physical disorders.

Exclusion: NEW402Y1

Recommended preparation: NEW214Y1/RLG206Y1

**NEW433HI Advanced Special Topics in Buddhism, Psychology and Mental Health 26S**

An upper-level seminar. Topics vary from year to year, depending on the instructor. Topic for 2007-2008: Buddhist Perspectives on Mind and Knowledge

Recommended preparation: NEW214Y1/RLG206Y1

**Caribbean Studies Courses**

**NEW223YI Caribbean Literature and Society 52S**

A study of Caribbean writers of fiction, poetry and drama, drawn from the major linguistic and racial/cultural groups in the region. Works are analyzed as literary texts and within the contexts of social and political life in which the writing is situated.

**NEW224YI Caribbean Thought I 52L, 26T**

A multi-disciplinary exploration of writing pertaining to culture and consciousness particularly Afro- and Indo-Caribbean thought: theoretical perspectives on the implications and consequences of slavery and indenture, the struggle for freedom from the legacy of the plantation and colonial dependence, responses to domination and exploitation, race, gender, religion and music.

Recommended preparation: HIS106Y1

**NEW324YI Caribbean Thought II 52L**

Critical enquiry at an advanced level into the construction of society, race, language, religion, culture and gender; theories of economy, resistance, self-affirmation, continuing colonization and place of the Caribbean within the global context; internal and external theoretical perspectives on "the Caribbean personality."

Prerequisite: NEW224Y1

**NEW325HI Caribbean Women Thinkers 26L**

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.

**NEW326YI Indenture, Survival, Change 52L**

Indian survival in the Caribbean despite hardships of indentured labour; social and cultural change; role of Hinduism and Islam; resistance to Colonial domination; contribution of Indo-Caribbean intellectuals to literature, politics, and education.

(Offered in alternate years)

**NEW327YI The Hispanic Caribbean: Race, Religion and Revolution in Cuban History and Culture 52L**

Examines Cuba's relevance and legacy from the mid-nineteenth century to the present. Explores the tensions of Cuban life in counterpoint with its creative rendering in the arts and literature, through a variety of fresh approaches in fields such as cultural studies, historical sociology, anthropology, and sociology of religion.

Recommended preparation: LAS200Y1/NEW224Y1

**NEW422YI Performing and Transforming the Caribbean 52S, 78P**

Addresses ways in which performance can be a force for cultural resistance and social change. Examines Caribbean performances such as jonkonnu, theatre, dance hall and carnival, looking at how these forms engage questions of neo-colonialism, transculturation, gender, race and nation, community and identity and diasporic memory.

Prerequisite: NEW324Y1 or permission of instructor

**NEW 423HI Special Topics in Caribbean Studies 26S**

An upper-level seminar. Topics vary from year to year, depending on the instructor.

Prerequisite: NEW 324Y1

**NEW424YI The Capitalist Press and the New Imperialism 78S**

Social analysis of the state-corporate mainstream capitalist press (print/electronic) problematically named "The Free Press"; its racist-sexist globalizing EuroAmerican cultural imperialism; the production of the commoditized consumer-subject and other re-conquest narratives and their implications for Caribbean and other World Majority peoples.

Prerequisite: NEW324Y1

**NEW426HI/ Special Topics in Caribbean Studies YI 39S/78S**

An upper level seminar. Topics vary from year to year, depending on the instructor.

Prerequisite: NEW 324Y1

**Equity Studies Courses**

**NEW214YI Socially Engaged Buddhism 52L**

See Buddhism, Psychology and Mental Health Courses above

**NEW240YI Introduction to Equity Studies 52L**

An interdisciplinary study of issues of social diversity exploring debates about the origins of inequity and the various means of addressing it. Course readings draw from a broad range of relevant literature in the Humanities, Social Sciences, and Natural and Medical Sciences.

**NEW241YI Introduction to Disability Studies 52L**

Introduces students to the theory and practice of Disability Studies. Explores the history of the development of disability studies. Examines cultural representations of disability and critically assesses the ways disability is conceptualized in societal institutions. Forms of disability activism are also discussed.

**NEW341HI/ Special Topics in Equity Studies 26S 342HI**

An upper level seminar dealing with topics related to Equity Studies.

Prerequisite: NEW240Y1 or permission of instructor

**NEW343HI The Romani Diaspora in Canada 26L**

Romani history and culture through theories on the origins and diaspora of the Roma (often misnamed “gypsies”). Historic and current equity issues facing the Roma people (particularly newcomers) in Canada from c1890 to the present.  
Recommended preparation: NEW 240YI or a course in East European History

**NEW344YI Selected Topics in Equity Studies 52L**

An upper level course. Topics vary from year to year.  
Prerequisite: NEW240YI or permission of instructor

**NEW349HI Selected Topics in Disability Studies 26S**

An upper level course. Topics vary from year to year.  
Prerequisite: NEW240YI/366HI/SOC373HI/374HI

**NEW441HI/ Advanced Topics in Equity Studies 26S 442HI**

An advanced level seminar course. Topics vary from year to year.  
Prerequisite: NEW240YI or permission of instructor

**NEW444HI Social Change and Non-Violence 26S**

Examines theories and practices that promote the building of cooperative, non-violent communities. Grounded in a series of historical cases studies, including the Sri Lankan Sarvodaya movement, the course critically considers Gandhian principles and the ways in which these have been translated into collective action.  
Prerequisite: NEW 240Y or permission of the instructor

**NEW449HI Advanced Topics in Disability Studies 26S**

An advanced level seminar course. Topics vary from year to year.  
Prerequisite: NEW240YI/366HI/SOC373HI/374HI

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**Paradigms and Archetypes Courses**

**NEW209YI Stories 52L, 26T**

Examines cross-disciplinary issues raised by the telling and retelling of stories: sequence and consequence; narrative as argument and proof by scenario; construction and deconstruction of identities; instabilities amongst “history,” “fact,” “fiction,” “myth,” “law” and “science”. Works by Darwin, Davis, Gould, Kincaid, Kuhn, Ondaatje, Plato, etc.

**NEW301YI Analogy and Its Rituals 52L 26T**

Issues of rhetorical proof, analysis and interpretation in open (alogical) systems; mediation and the media; the scandal of chaos; motives for metaphor; custom and culture, anatomies of reason, idea and ideology. (Offered in alternate years)  
Recommended preparation: NEW 209Y

**NEW302YI C.G. Jung: Stories, Dilemmas, Rituals 52L**

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 anti-Jungian, feminist, and non-Jungian sources.  
Prerequisite: At least one course in the humanities

**NEW303HI The Hypothesis of the Unconscious 26L**

Current discussions of the hypothesis, 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.  
Recommended preparation: NEW 302YI

**NEW 304YI Dilemmas 52L 26T**

Issues raised by the problem/solution paradigm and the construction of truth as binary; strategies of paradox, aporia, paradigm anomaly, enigma, puzzlement; mystery and mystification; crisis, crux and apocalypse. Authors studied include Ryle, Mill, Carroll, Tolstoy. (Offered in alternate years)  
Recommended preparation : NEW 209YI

**NEW306HI Rabindranath Tagore: Paradigms of Culture**

See South Asian Studies Courses below

**NEW308HI Satyajit Ray: Paradigms of Vision**

See South Asian Studies Courses below

**NEW 402YI Advanced Special Topics in Paradigms and Archetypes 52S**

Topics vary from year to year, depending on the needs of the program and the interests of students and instructors.  
Prerequisite: Permission of instructor

**NEW 403H/ Advanced Special Topics in Paradigms and Archetypes 26S 404H**

Topics vary from year to year depending on the needs of the program and the interests of students and instructors. Topic for 2007-2008: Psyche Stories.  
Prerequisite: Permission of instructor

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**Independent Studies Courses**

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 the supervisor, will read relevant literature, and plan, execute, analyze and report on an original and independent investigation of an appropriate topic. Written applications (detailed proposal, reading list and a letter of support from a faculty member who is prepared to supervise) should be made through the Program Office for approval by the College’s Committee for Academic Affairs by May 1 for the Summer Session or by the last Friday in August for the Winter Session. Students will be notified of the acceptance or rejection of an application. For more information and application forms, please see the Independent Studies website: <http://www.newcollege.utoronto.ca/academic-programs/independent-studies/>

Enquiries: New College, Room 132 (978-5404)

**NEW299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**NEW390YI/ New College Independent Studies TBA 490YI**

Prerequisite: Permission of College

**NEW391HI/ New College Independent Studies TBA 491HI**

Prerequisite: Permission of College

## South Asian Studies Courses

**NEW114Y1 Introduction to South Asian Studies 78L**

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 it as a region. Some attention will be paid to the South Asian diaspora.

**NEW211Y1 Introduction to Bengali 104L**

Intensive introduction to phonology, grammar, syntax of the modern Bengali language; emphasis on basic writing and reading. Exclusion: SAS 201Y1; enrolment subject to placement evaluation

**NEW212Y1 Introduction to Hindi 104L**

Intensive introduction to phonology, grammar, syntax of the modern Hindi language; emphasis on basic writing and reading. Exclusion: SAS 202Y1; enrolment subject to placement evaluation

**NEW213Y1 Introduction to Tamil 104L**

Intended for students with little or no knowledge of written Tamil. Intensive introduction to phonology and grammar; syntax of the modern Tamil language; emphasis on basic writing and reading. Exclusion: High school Tamil

**NEW214Y1 Socially Engaged Buddhism 52L**

See Buddhism, Psychology and Mental Health Courses above

**NEW215H1 Colonial Thought and Postcolonial Practice in Bengal 26L**

An interdisciplinary history, beginning with colonialism as a moment of transition, of the ways in which colonial ideology and indigenous resistance shaped the contours of culture and politics in Bengal until Independence; consideration of factors that provide a sense of unity to Bengali culture while accommodating changes and transformations. (Taught in the summer program only).

**NEW216H1 South Asia: Perspectives on Politics and Society 26L**

A critical overview of South Asia, considering historical and social factors that account for both distinctiveness and connections among nations and communities. Special attention to the major role played by postcolonial histories in establishing the separate trajectories of each nation while preserving the significance of the region as a whole.

**NEW217H1 Tamil Studies in South Asia and the Diaspora 26L**

An interdisciplinary approach that explains the complexity and multiplicity of Tamil culture. An historical approach to the evolution of Tamil culture over the last twenty centuries. Issues of region, space, politics, and religion will aid in an understanding of contemporary Tamil culture, both in South Asia and the diaspora.

**NEW306H1 Rabindranath Tagore: Paradigms of Culture 26L**

Examines Tagore's concepts of humanity, art, personality, freedom, nationalism, ashram, science, education. Evaluates Tagore's literary contribution, his work in rural reconstruction, and Tagore-Gandhi tensions over education and the non-cooperation movement. Reading knowledge of Bengali not presumed; however students with knowledge of language encouraged to read materials in Bengali.

**NEW308H1 Satyajit Ray: Paradigms of Vision 26L**

Examines the artistic vision of Satyajit Ray as chronicler of Bengali culture and one of the greatest filmmakers of our time: his life and work; his films as expressions of his humane vision; cultural orientation and values; fictional compositions, visual and musical artistry; affinities and continuity with Rabindranath Tagore. Reading knowledge of Bengali not presumed; however students with knowledge of language encouraged to read materials in Bengali.

**NEW311Y1 Readings in Bengali Literature 104L**

Readings from selected authors of modern Bengali prose and poetry; introduction to samples of pre-modern Bengali texts.: Exclusion: SAS 301Y1; enrolment subject to placement evaluation. Prerequisite: NEW 211Y1/SAS 201Y1/ permission of instructor

**NEW312Y1 Readings in Hindi Literature 104L**

Readings from selected authors of modern Hindi prose and poetry; introduction to samples of pre-modern Hindi texts. Exclusion: SAS 302Y1; enrolment subject to placement evaluation Prerequisite: NEW 212Y1/SAS 202Y1/permission of instructor

**NEW315Y1 Intermediate Bengali 104L**

Enables students to achieve an elevated level in Bengali in order to read on their own and compose short paragraphs. Provides the required skills to appreciate Bengali literature with comfort. Topics covered: Grammar – Euphonic combination; Onomatopoeic & Compound words; Phrases & Idioms. Distinction between Chaste and Standard Colloquial styles of the language. Prerequisite: NEW 211Y1/SAS 201Y1/ permission of instructor

**NEW413H1/ 414H1 Advanced Special Topics in South Asian Studies 26S**

An upper-level seminar. Topics vary from year to year, depending on the instructor

**Nutritional Sciences: see Life Sciences: Nutritional Sciences**

**Peace & Conflict Studies: see University College**

**Pharmacology: see Life Sciences: Pharmacology**

**Pharmaceutical Chemistry: see Life Sciences: Pharmaceutical Chemistry**

# Philosophy

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## Faculty

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### University Professors Emeriti

I. Hacking, MA, Ph D, FRSC (V)  
F.E. Sparshott, MA, FRSC (V)

### Professors Emeriti

J.V. Canfield, AM, Ph D (UTM)  
D.P. Dryer, AM, Ph D, FRSC  
D.D. Evans, BA, BD, D Phil (V)  
R.B. DeSousa, BA, Ph D  
L.W. Forgonson, MA, Ph D (U) (obit)  
D. Goldstick, BA, D Phil  
A. Gombay, MA, B Phil (UTM)  
W.C. Graham, MA, Ph D (University of Toronto Scarborough)  
C.M.T. Hanly, BA, MÈS L, D Phil  
W.R.C. Harvey, MA, LL B, Ph D (V)  
H.G. Herzberger, AM, Ph D  
W.J. Huggett, MA, Ph D (UTM)  
R.A. Imlay, MA, Ph D (U)  
E.J. Kremer, AB, Ph D (SM)  
T.D. Langan, AM, Ph D (SM)  
A.A. Maurer, MA, MSL, Ph D (SM)  
R.F. McRae, MA, Ph D (U)  
J.C. Morrison, MA, Ph D (SM)  
G.A. Nicholson, MA, BD, Ph D (T)  
H. Pietersma, MA, Ph D (V)  
T.M. Robinson, BA, BLitt, DLitt  
K.L. Schmitz, MA, MSL, Ph D (T)  
J.G. Slater, MA, Ph D (W)  
J.H. Sobel, MA, Ph D (University of Toronto Scarborough)  
J.T. Stevenson, MA (U)  
M.T. Thornton, B Phil, MA, Ph D (V)  
A.I.F. Urquhart, MA, Ph D  
J.M. Vertin, MA, STL, Ph D (SM)  
F.F. Wilson, B Sc, MA, Ph D, FRSC (U)

### Associate Professor and Chair of the Department

D.C. Ainslie, B Sc, MA, Ph D (U)

### Associate Professor and Associate Chair (Undergraduate)

J.M. Heath, MA, Ph D (U)

### Associate Professor and Associate Chair (Graduate)

P. Kremer, BSc, Ph D (University of Toronto Scarborough)

### University Professors

L.W. Sumner, MA, Ph D, FRSC

### Professors

D.P.H. Allen, MA, B Phil, D Phil (T)  
D.L. Black, MA, Ph D (SM)  
J. Boyle, BA, Ph D (SM)  
J.R. Brown, MA, Ph D  
P. Clark, BA, Ph D (UTM)  
F.A. Cunningham, MA, Ph D, FRSC  
D. Dyzenhaus, D Phil, FRSC

P. Franks, MA Ph D (UTM)  
L. Gerson, AM, Ph D (SM)  
R.B. Gibbs, MA, Ph D (U)  
W. Goetschel, Lic Phil, Ph D  
P.W. Gooch, MA, Ph D (V)  
T.M. Hurka, BA, B Phil, D Phil, FRSC  
D.S. Hutchinson, BA, B Phil, D Phil (T)  
B.C. Inwood, MA, PhD, FRSC  
B.D. Katz, MA, Ph D (UTM)  
P. King, BA, Ph D  
M. Kingwell, M Litt, Ph D (T)  
M. Matthen, B Sc, MA, Ph D (UTM)  
C. Misak, MA, D Phil, FRSC  
K.P. Morgan, MA, M Ed, Ph D (N)  
M. Morrison, MA, Ph D (T)  
A. Mullin, Ph D (UTM)  
D. Raffman, BA, Ph D (UTM)  
A. Ripstein, MA, Ph D  
W.E. Seager, MA, Ph D (University of Toronto Scarborough)  
V. Shen, MA, MA, Ph D  
I. Leman Stefanovic, MA, Ph D (SM)  
E. Thompson, MA, Ph D (U)  
J.E. Whiting, BA, MA, Ph D

### Associate Professors

R. Barney, BA, Ph D  
R. Comay, MA, Ph D (V)  
L. Lange, MA, Ph D (University of Toronto Scarborough)  
M. Rozemond, Kand., Ph D (UTM)  
S.A. Sedivy, BA, Ph D (University of Toronto Scarborough)  
G. Sreenivasan, BA, B Phil, Ph D  
S. Tenenbaum, BA, Ph D (UTM)  
D. Walsh, BSc, Ph D, BA, M Phil, Ph D  
B. Yi, MA, Ph D (UTM)

### Assistant Professors

T.J. Berry, MA, Ph D  
I. Dickie, B Phil, Ph D  
J.S. Hawkins, MA, Ph D (University of Toronto Scarborough)  
B. Hellie, BA, Ph D (University of Toronto Scarborough)  
J. John, BA, Ph D  
M.T. Lin, BA, Ph D (University of Toronto Scarborough)  
S.R. Moreau, B Phil, Ph D, JD  
J. Nagel, MA, Ph D (UTM)  
M. Pickavé, MA, Ph D  
G.S. Rattan, B Sc, Ph D (UTM)  
J. Weisberg, BA, Ph D (UTM)  
J. Wilson, BA, Ph D (University of Toronto Scarborough)

### Lecturer

N. Scharer, MA, Ph D

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 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 and Marxism (Hegel, Mill, Marx); 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?); Philosophy of Religion (Does God exist? How could one prove it?); 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?); Philosophy of Social Science and History (Can there be a science of humans?); Social and Political Philosophy (What justifies the state?); Moral Philosophy (How should we argue rationally about right and wrong?); Aesthetics (What is art? Must it be beautiful?). In addition, the Department offers Seminars (numbered PHL 400HI-489HI) and Individual Studies courses (numbered PHL 490YI, PHL 495HI-499HI).

Counselling is available in the main departmental office, 215 Huron St., 9th floor. 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 spring (for the succeeding year) and is available on the Department's website and at 215 Huron Street, and from all College registrars.

Undergraduate Coordinator:  
Professor J. M. Heath, 215 Huron Street, Room 903 (416-978-3314), [undergrad.phil@utoronto.ca](mailto:undergrad.phil@utoronto.ca)

Undergraduate Counsellor:  
Ms. Alisa Rim, 215 Huron Street, Room 904 (416-978-3314), [alisa.rim@utoronto.ca](mailto:alisa.rim@utoronto.ca)

Website:  
<http://philosophy.utoronto.ca>

Please note that all administrative offices are scheduled for relocation to 170 St. George St., 4<sup>th</sup> floor, beginning Sept. 2007.

## Philosophy Programs

Enrolment in Philosophy programs is open to students who have completed four courses; no minimum GPA required.

NOTE: No more than **one** individual studies course can be counted towards **any** philosophy program. Normally, no more than **one-half** individual studies course can be counted towards the 400-level course requirement for **any** Specialist or

Combined Specialist Philosophy program.

**Bioethics: see end of Philosophy program listing**

## Philosophy (Arts program)

### **Specialist program:**

(9 full courses or their equivalent)

At least 4.5 full 300+ series PHL courses, including one full 400-series PHL course. While students are encouraged to follow their personal interests and aims, it is strongly recommended that programs include courses in the following areas:

1.0	Introductory
2.0	History of Philosophy
0.5	Logic
1.0	Epistemology/Metaphysics/Philosophy of Mind/ Philosophy of Language/Philosophy of Science
1.0	Ethics/Social and Political

### **Major program:**

(6 full courses or their equivalent)

The 6 courses must include at least 3 full 300+ series PHL courses.

It is strongly recommended that Programs include courses in the following areas:

1.0	Introductory
2.0	History of Philosophy
0.5	Logic
1.0	Epistemology/Metaphysics/Philosophy of Mind/ Philosophy of Language/Philosophy of Science
0.5	Ethics/Social and Political

### **Minor program:**

(4 full courses or their equivalent)

Four courses in PHL to include one full course at the 300+ level.

It is strongly recommended that Programs include courses in the following areas:

1.0	History of Philosophy
1.0	Problems of Philosophy

**Philosophy and Economics: see Economics**

**Philosophy and English: see English**

**Philosophy and Linguistics: see Linguistics**

**Philosophy and Literary Studies: see Literary Studies**

**Philosophy and Mathematics: see Mathematics**

**Philosophy and Physics: see Physics**

**Philosophy and Political Science (Arts program)**

Limited Enrolment program: see details under Political Science.

### **Specialist program:**

(14 full courses or their equivalent, including at least one full 400-series course: 7 in each subject)

# Philosophy

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## Philosophy (7 courses):

The courses to include at least two full 300+ series PHL courses; it is strongly recommended that five be chosen according to the profile specified in the Philosophy Specialist Program above.

## Political Science (7 courses):

The courses to include at least one full 300+ series course and one 400-series course.

NOTE: At least one course in Canadian politics must be completed. The Canadian politics requirement will be satisfied by only POL 103Y1/214Y1

First Year:

POL 103Y1/105Y1/108Y1

Higher Years:

1. POL 200Y1
2. Two full courses from the following: POL 201Y1/(203Y1/207Y1)/208Y1/214Y1/215Y1
3. Three additional POL courses

## Philosophy and Religion (Arts program)

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### Specialist program:

(14 full courses or their equivalent, including at least one 400-series course: 7 in each subject)

### Philosophy (7 courses):

Including at least two full 300+ series PHL courses, with five chosen according to the following profile:

2.0	History of Philosophy
0.5	Logic
1.0	Epistemology/Metaphysics/Philosophy of Mind/ Philosophy of Language/Philosophy of Science
0.5	Ethics/Social and Political
1.0	Philosophy of Religion

### Religion (7 courses):

Including at least two full 300+ series RLG courses, with five chosen according to the following profile:

1.0	RLG 100Y1/280Y1
1.0	in a specific religious tradition
1.0	employing historical method
1.0	employing philosophical method
1.0	employing social-scientific method

## Philosophy of Science (Arts Program)

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### Specialist program:

(10 full courses or their equivalent, at least four of which must be at the 300-level or above, including at least one full 400-series PHL course)

First Year:

Required: One full science course, normally at the 100-level, from, CHM, CSC, GLG, BIO, JMB, PSY, MAT, PHY, STA

Note: Courses listed under "Science Courses for Humanities and Social Science Students" (see pp.24-25) cannot be counted towards this requirement.

Recommended: PHL 100Y1, HPS 100H1

Higher Years:

1. HPS 250H1, PHL 232H1, PHL 245H1, HPS, 350H1, PHL 355H1
2. One of HPS 322H1/PHL 346H1/356H1/PHL 357H1
3. One of PHL 331H1/PHL 332H1

4. 4 to 5.5 additional full courses in Philosophy (depending on whether PHL 100Y1 and HPS 100H1 are taken in first year). It is highly recommended that these courses include the following: HPS210H1, HPS211H1, PHL 210Y1, PHL 246H1, one of PHL 415H1 or 482H1. (For the purposes of this requirement, HPS 210H1 and HPS 211H1 are counted as Philosophy courses).

## Philosophy and Sociology (Arts program)

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### Specialist program:

(14.5 full courses or their equivalent, including at least one 400-series course: 7 in Philosophy and 8 in Sociology)

### Philosophy (7 courses):

It is strongly recommended that five courses be chosen according to the profile specified in the Philosophy Specialist program above; at least two must be 300+ series courses.

### Sociology (7.5 courses):

NOTE: Enrolment in this Program is limited to students with 65% in SOC 101Y1, and 70% in each of SOC 200H1, 202H1, 203Y1, and 204H1. Students need to have completed 7.5 full courses and be enrolled in the Sociology Major program.

First Year:

SOC 101Y1

Higher Years:

1. SOC 200H1, 202H1, 203Y1, 204H1, 300H1, 376H1, 377H1, 387H1, 401Y1
2. An additional 1.0 courses in a 200+ level SOC course related to Philosophy

## Bioethics (Arts program)

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### Specialist program:

(9 full courses or their equivalent, at least four of which must be 300+ series PHL courses, including one full 400-series PHL course)

First Year:

Recommended: PHL 100Y1

Higher Years:

1. PHL 281Y1
2. Three of PHL 380H1, 381H1, 382H1, 383H1, 384H1, 413H1, 470H1
3. PHL 275H1, 375H1/ 407H1
4. PHL 265H1/271H1/365H1/370H1/412H1/483H1
5. One full course from PHL 232H1, 240H1, 246H1, 331H1, 332H1, 340H1, 341H1, 355H1, 357H1, 404H1, 405H1, 406H1, 415H1, 482H1, HPS 250H1.
6. Either three additional full courses in Philosophy; or two full courses in Philosophy plus one full course from the interdisciplinary list below. At least one course in the history of philosophy is recommended. Students are strongly encouraged to select the interdisciplinary option whenever possible.

BIO 150Y1 is strongly recommended

### Major program:

(6 full courses or their equivalent, at least two of which must be 300+ series PHL full courses)

First Year:

Recommended: PHL 100Y1

Higher Years:

1. PHL 275H1, 281Y1



2. Two of PHL 380HI, 381HI, 382HI, 383HI, 384HI, 413HI
3. PHL 265HI/271HI/365HI/370HI/375HI/407HI/412HI/475HI/483HI.
4. Two of PHL 232HI, 240HI, 246HI, 340HI, 341HI, 355HI, 357HI, 404HI, 405HI, 406HI, 415HI, 482HI, HPS 250HI.
5. Either one other full course in philosophy, or one half-course in Philosophy and one half-course from the interdisciplinary list below. Students are strongly encouraged to select the interdisciplinary option whenever possible.

### Interdisciplinary list of Bioethics-related courses outside of PHL for Specialists and Majors:

NOTE: Many of these courses have prerequisites; students who wish to use these courses for their Bioethics programs must fulfill all those prerequisites as required by the departments concerned:

ANT 348YI, ECO 369YI, GGR 450HI, GGR 451HI, HIS 423HI, HIS 459HI, HIS 463HI, HIS 489HI, HPS 318HI, HPS 319HI, HPS 323HI, INI 341HI, HMB 201HI, JFP 450HI, HMB 201HI, HMB 202HI, NEW 261YI, NEW 366HI, NEW 367HI, POL350HI, SMC 370HI, SOC 242YI, SOC 309YI, SOC 327YI, SOC 351YI, SOC 363HI

### Minor program:

(4 full courses or their equivalent including at least one full 300+ series PHL course)

First Year:

Recommended: PHL 100YI.

Higher Years:

1. PHL 281YI
2. One of PHL 380HI, 381HI, 382HI, 383HI, 384HI.
3. 1.5 other courses in Philosophy. It is strongly recommended that one of these courses be in ethics or political philosophy, i.e., PHL 265HI/271HI/275HI/365HI/370HI/375HI.

**Environmental Ethics (Arts Program): see Centre for Environment**

## Philosophy Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all PHL courses are classified as HUMANITIES COURSES.

### HUM199HI/YI First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

### Note

Some of the courses listed here bear prefixes other than PHL. These courses may be credited toward any of the Programs in Philosophy but may normally make up no more than one-sixth of a Philosophy Program. They are cross-listed here for convenience but students should consult the primary listings for course descriptions. For information on external credits, see the Philosophy Bulletin.

### PHL100YI Introduction to Philosophy 52L, 26T

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. The course is concerned with such questions as: What is sound reasoning? What can we know? What is ultimately real? Is morality rational? Do humans have free will? Is there a God?

Exclusion: PHL102YI, 201HI

### 200-SERIES COURSES

Note: No 200-series course has a 100-series PHL course as prerequisite.

### PHL200YI Ancient Philosophy 78L

Central texts of the pre-socratics, Plato, Aristotle, and post-Aristotelian philosophy.

### TRN200YI Modes of Reasoning

See "Trinity College Courses"

### PHL201HI Introductory Philosophy 39L

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 four FCEs in any subject.

Exclusion: PHL100YI, 102YI, or more than 1.0 PHL course  
Prerequisite: Four FCEs in any subject

### PHL205HI Early Medieval Philosophy 39L

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.

### PHL206HI Later Medieval Philosophy 39L

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.

### PHL210YI 17th-and 18th-Century Philosophy 78L

Central texts of such philosophers as Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant.

### PHL217HI Introduction to Continental Philosophy 39L

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.

Exclusion: PHL215HI, PHL220HI

### PHL232HI Knowledge and Reality 39L

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: PHL 230HI, PHL231HI

# Philosophy

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- PHL235HI Philosophy of Religion 39L**  
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. (Offered in alternate years)  
Exclusion: PHL236YI
- PHL237HI History of Chinese Philosophy 39L**  
An historical and systematic introduction to the main phases of Chinese philosophical development, including Confucianism, Taoism, Buddhism, and Neo-Confucianism; the challenge of Western thought and the development of modern Chinese Philosophy.  
Exclusion: EAS241HI, RLG274HI
- PHL240HI Persons, Minds and Bodies 39L**  
Consciousness and its relation to the body; personal identity and survival; knowledge of other minds; psychological events and behaviour.
- PHL243HI Philosophy of Human Sexuality 39L**  
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.
- PHL244HI Human Nature 39L**  
Aspects of human nature, e.g., emotion, instincts, motivation. Theories of human nature, e.g., behaviourism, psychoanalysis.
- PHL245HI Modern Symbolic Logic 39L**  
The application of symbolic techniques to the assessment of arguments. Propositional calculus and quantification theory. Logical concepts, techniques of natural deduction.  
Exclusion: CSC330HI
- PHL246HI Probability and Inductive Logic 39L**  
The elements of axiomatic probability theory and its main interpretations (frequency, logical, and subjective). Reasoning with probabilities in decision-making and science.  
Recommended preparation: PHL245HI
- PHL247HI Critical Reasoning 39L**  
The area of informal logic - the logic of ordinary language, usually non-deductive. Criteria for the critical assessment of arguments as strong or merely persuasive. Different types of arguments and techniques of refutation; their use and abuse.  
Exclusion: TRN200YI
- HPS250HI Introductory Philosophy of Science**  
See “History & Philosophy of Science & Technology”
- UNI250YI Introduction to Cognitive Science 78L**  
An introduction to the problems, theories and research strategies central to an interdisciplinary field focussing 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.
- PHL265HI Introduction to Political Philosophy 39L**  
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.
- PHL267HI Philosophy of Feminism 39L**  
Main types of feminist theory: liberal, Marxist, Existential and “Radical”. A number of ethical, political and psychological issues are considered.
- PHL271HI Law and Morality 39L**  
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.
- PHL273HI Environmental Ethics 39L**  
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.
- PHL275HI Introduction to Ethics 39L**  
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.
- PHL281YI Bioethics 78L**  
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.
- PHL285HI Aesthetics 39L**  
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.
- PHL295HI Business Ethics 39L**  
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?
- PHL299YI Research Opportunity Program**  
Credit course for supervised participation in faculty research project. See page 47 for details.
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## 300-SERIES COURSES

### Note

All 300-series courses have a prerequisite of three half courses (or equivalent) in philosophy, with the exception of PHL 344-349. There is also a general prerequisite of 7.5 courses (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.

- PHL301HI Early Greek Philosophy 39L**  
A study of selected Greek philosophers before Plato. Topics may include the Presocratic natural philosophers, Parmenides and the Eleatics, and the so-called sophistic movement.  
Prerequisite: PHL200YI
- PHL302HI Ancient Philosophy After Aristotle 39L**  
A study of selected themes in post-Aristotelian philosophy. Topics may include Stoicism, Epicureanism, Neoplatonism, and various forms of scepticism.  
Prerequisite: PHL200YI
- UNI302HI Bases of Cognition 39L**  
See "University College Courses"
- PHL303HI Plato 39L**  
Selected metaphysical, epistemological, and ethical themes in Plato's dialogues.  
Prerequisite: PHL200YI
- PHL304HI Aristotle 39L**  
Selected anthropological, ethical and metaphysical themes in the works of Aristotle.  
Prerequisite: PHL200YI
- PHL307HI Augustine 39L**  
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: PHL200YI/205HI
- PHL308HI Aquinas 39L**  
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: PHL200YI/205HI/206HI
- PHL309HI Topics in Medieval Philosophy 39L**  
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: PHL200YI/205HI/206HI
- PHL310HI The Rationalists 39L**  
Central philosophical problems in philosophers such as Descartes, Spinoza, Leibniz, and their contemporaries.  
Prerequisite: PHL210YI
- PHL311HI The Empiricists 39L**  
Central philosophical problems in philosophers such as Locke, Berkeley, Hume, and their contemporaries.  
Prerequisite: PHL210YI
- PHL312HI Kant 39L**  
A systematic study of *The Critique of Pure Reason*.  
Prerequisite: PHL210YI
- PHL315HI 19th-Century German Philosophy 39L**  
The systems of thought that followed Kant, including Fichte, Schelling, and Hegel. Then later authors such as Schopenhauer, Marx, and Nietzsche who were, in part, critics of Hegel, but who were also creative thinkers who shaped the future.  
Prerequisite: PHL312HI
- PHL316HI Hegel 39L**  
An examination of Hegel's project of absolute knowing, its philosophical assumptions, and its implications for history, science and experience.  
Prerequisite: PHL312HI
- PHL317HI Marx and Marxism 39L**  
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.  
Exclusion: PHL 216HI, PHL 318HI  
Recommended Preparation: PHL 265HI/POL 200YI
- PHL319HI Philosophy and Psychoanalytic Theory 39L**  
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.
- PHL320HI Phenomenology 39L**  
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: PHL210YI/217HI
- PHL321HI Heidegger 39L**  
Some work from the 1920's (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: PHL215HI/217HI/220HI
- PHL322HI Contemporary Continental Philosophy 39L**  
German and French philosophy after World War II, focusing on such topics as: debates about humanism, hermeneutics, critical theory, the structuralist movement, its successors such as deconstruction. Typical authors: Heidegger, Gadamer, Habermas, Levi-Strauss, Foucault, Derrida.  
Prerequisite: PHL217HI/220HI
- PHL323HI Social and Cultural Theory 39L**  
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.
- PHL325HI Early Analytic Philosophy 39L**  
An examination of some of the classic texts of early analytic philosophy, concentrating on the work of Frege, Russell, and Wittgenstein.  
Prerequisite: PHL245HI and one of PHL 232HI/240HI
- PHL326HI Wittgenstein 39L**  
Wittgenstein's views on the structure and function of language, meaning, the possibility of a private language, and the concepts of feeling and thinking. The *Tractatus Logico-Philosophicus* and the *Philosophical Investigations*.  
Prerequisite: PHL245HI and one of PHL 210YI/232HI/240HI

# Philosophy

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- PHL331HI Metaphysics 39L**  
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: PHL231HI/232HI  
Exclusion: PHL 330YI
- PHL332HI Epistemology 39L**  
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: PHL230HI/232HI  
Exclusion: PHL 330YI
- PHL335HI Issues in Philosophy of Religion 39L**  
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.
- PHL336HI Islamic Philosophy 39L**  
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: PHL200YI
- PHL337HI Topics in Chinese Philosophy 39L**  
An intermediate level treatment of such topics as: human nature; good and evil; the role of emotions; the metaphysical ultimate.  
Prerequisite: PHL237HI
- PHL338HI Jewish Philosophy 39L**  
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.
- PHL340HI Issues in Philosophy of Mind 39L**  
Typical issues include: the mind-brain identity theory; intentionality and the mental; personal identity.  
Prerequisite: One of UNI250YI/PHL240HI
- PHL341HI Freedom, Responsibility, and Human Action 39L**  
Human action, and the nature of freedom and responsibility in the light of contemporary knowledge concerning the causation of behaviour.  
Prerequisite: PHL 210YI/232HI/240HI
- PHL342HI Minds and Machines 39L**  
Topics include: philosophical foundations of artificial intelligence theory; the computational theory of the mind; functionalism vs. reductionism; the problems of meaning in the philosophy of mind.
- JPP343YI Women in Western Political Thought 52L**  
An examination of social and political thought concerning the nature of women and their role in society, including the relation between the family and "civil society". The debate between Aristotle and Plato; treatment by early modern individualism; the anti-individualist theory; some major contemporary perspectives, especially liberal and Marxist feminism. (Given by the Departments of Philosophy and Political Science)  
Prerequisite: NEW360YI/PHL265HI/POL200YI
- PHL344HI Metalogic 39L**  
Soundness and completeness of propositional and quantificational logic, undecidability of quantificational logic, and other metalogical topics.  
Exclusion: MAT309HI/CSC438HI  
Prerequisite: PHL245HI and a full course in PHL/CSC/MAT
- PHL345HI Intermediate Logic 39L**  
A sequel to PHL245HI, developing skills in quantificational logic and treating of definite descriptions. The system developed is used to study a selection of the following topics: philosophical uses of logic, formal systems, set theory, non-classical logics, and metalogic.  
Prerequisite: PHL245HI and a full course in PHL/CSC/MAT
- PHL346HI Philosophy of Mathematics 39L**  
Platonism versus nominalism, the relation between logic and mathematics, implications of Gödel's theorem, formalism and intuitionism.  
Prerequisite: PHL245HI and a full course in PHL/CSC/MAT
- PHL347HI Modal Logic 39L**  
Formal study of the concepts of necessity and possibility; modal propositional and quantificational logic; possible-worlds semantics; the metaphysics of modality.  
Prerequisite: PHL245HI and a full course in PHL/CSC/MAT
- PHL349HI Set Theory 39L**  
Axiomatic set theory developed in a practical way, as a logical tool for philosophers, with some attention to philosophical problems surrounding it.  
Prerequisite: PHL245HI and a full course in PHL/CSC/MAT
- HPS350HI Revolution in Science**  
See "History and Philosophy of Science and Technology"
- PHL351HI Philosophy of Language 39L**  
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: PHL245HI and one of PHL 232HI/240HI
- PHL355HI Philosophy of Natural Science 39L**  
The structure and methods of science: explanation, methodology, realism and instrumentalism.  
Recommended preparation: A solid background in science or HPS250HI/PHL246HI
- PHL356HI Philosophy of Physics 39L**  
Introduction to philosophical issues which arise in modern physics, especially in Relativity and Quantum Mechanics. Topics include: the nature of spacetime, conventionality in geometry, determinism, and the relation between observation and existence.  
Prerequisite: One full course in MAT/PHY; two full courses is recommended.
- PHL357HI Philosophy of Biology 39L**  
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.

Recommended preparation: HPS250HI/PHL246HI. Students with a background in Biology are exempt from the prerequisite of 1.5 courses in Philosophy

**PHL362HI Philosophy of History 39L**

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?

**PHL365HI Political Philosophy 39L**

A study of some of the central problems of political philosophy, addressed to historical and contemporary political theorists.

**PHL370HI Issues in Philosophy of Law 39L**

Major issues in philosophy of law, such as legal positivism and its critics, law and liberalism, feminist critiques of law, punishment and responsibility.

Prerequisite: PHL271HI

Recommended preparation: PHL265HI

**PHL373HI Issues in Environmental Ethics 39L**

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: PHL273HI

**PHL375HI Ethics 39L**

An intermediate-level study of selected issues in moral philosophy, or of influential contemporary or historical works in ethical theory.

Prerequisite: PHL275HI

**PHL378HI War and Morality 39L**

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: PHL265HI/275HI

Exclusion: PHL278HI

**PHL380HI Global Bioethics 39L**

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: PHL281YI

**PHL381HI Ethics and Medical Research 39L**

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: PHL281YI

**PHL382HI Ethics: Death and Dying 39L**

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: PHL281YI

**PHL383HI Ethics and Mental Health 39L**

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: PHL281YI

**PHL384HI Ethics, Genetics and Reproduction 39L**

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: PHL281YI

**PHL385HI Issues in Aesthetics 39L**

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.

Recommended preparation: PHL285HI

**PHL388HI Literature and Philosophy 39L**

The literary expression of philosophical ideas and the interplay between literature and philosophy. Such philosophical issues as the nature and origin of good and evil in human beings, the nature and extent of human freedom and responsibility, and the diverse forms of linguistic expression. Such authors as Wordsworth, Mill, Dostoyevsky, Tolstoy, Miller, Camus, and Lawrence are studied.

Exclusion: PHL288HI

**PHL394HI Markets and Morals 39L**

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 PHL265HI/275HI/POL200YI

Exclusion: PHL296HI

**PHL395HI Issues in Business Ethics 39L**

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: PHL295HI

**PHL398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

# Philosophy

## 400-SERIES COURSES

### Notes

1. The general prerequisite for all 400-level courses is nine half-courses 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. PHL 400HI-451HI are undergraduate-level courses. PHL 470HI-489HI are cross-listed graduate courses, available to undergraduates as well. Enrolment in these courses requires the permission of the instructor and the Department in addition to the completion of the prerequisites indicated below.
3. Individual Studies courses (PHL490YI, PHL496HI/497HI/498HI/499HI), which involve directed study and research, are available to advanced students. Arrangements must be made with a faculty supervisor, and approval of the Undergraduate Co-ordinator obtained before registration.
4. No more than one individual studies course can be counted towards any philosophy program. Normally, no more than one-half individual studies course can be counted towards the 400-level course requirement for any Specialist or Combined Specialist Philosophy program.

### PHL400HI Seminar in Ancient/Medieval Philosophy 39S

Advanced discussion of the principal figures and themes in ancient and/or medieval philosophy.  
Prerequisite: PHL 200YI

### PHL401HI Seminar in the History of Philosophy 39S

Advanced study of some of the principal figures in a particular historical, philosophical tradition.  
Prerequisite: PHL 200YI/210YI

### UNI401HI Advanced Cognitive Science 26S

See "University College Courses"

### PHL402HI Seminar in Early Modern Philosophy 39S

Advanced discussion of the principal figures and themes in the philosophy of the 17th and/or 18th centuries.  
Prerequisite: PHL 210YI

### PHL403HI Seminar in 19th-Century Philosophy 39S

Advanced discussion of the principal figures and themes in 19th century philosophy.  
Prerequisite: PHL 210YI/217HI/315HI/316HI

### PHL404HI Seminar in Epistemology 39S

Typical problems include the nature of knowledge and belief; perception; theories of truth and necessity; skepticism.  
Prerequisite: PHL 232HI

### PHL405HI Seminar in Philosophy of Mind 39S

Advanced study of a problem in the philosophy of mind.  
Prerequisite: PHL 240HI/342HI/UNI 250YI

### PHL406HI Seminar in Metaphysics 39S

Typical problems include causality and determinism; ontological categories; mind and body; the objectivity of space and time.  
Prerequisite: PHL 232HI

### PHL407HI Seminar in Ethics 39S

Advanced discussion of issues in moral philosophy, including issues of applied ethics.  
Prerequisite: PHL 275HI

### PHL408HI Seminar in Philosophy 39S

Topics vary but bridge two or more areas or traditions of philosophy.

### PHL409HI New Books Seminar 39S

Advanced study of key philosophical works published within the last five years.

### PHL410HI Seminar in Continental Philosophy 39S

Advanced study of recent philosophical discussions within the continental tradition.  
Prerequisite: PHL 217HI/315HI/316HI/319HI/320HI/321HI/322HI

### PHL411HI Seminar in Analytic Philosophy 39S

Advanced study of some topic of current philosophical interest within the analytic tradition.  
Prerequisite: PHL 245HI and one of PHL 232HI/240HI

### PHL412HI Seminar in Political Philosophy 39S

Advanced study of some topic in social or political philosophy.  
Prerequisite: PHL 265HI/271HI

### PHL413HI Seminar in Applied Ethics 39S

Advanced study of some topic in an area of applied ethics, including bioethics, environmental ethics, and so on.  
Prerequisite: PHL 271HI/273HI/275HI/281YI

### PHL414HI Seminar in Philosophy of Religion 39S

Advanced study of topics in the philosophy of religion.  
Prerequisite: PHL 235HI/335HI

### PHL415HI Seminar in Philosophy of Science 39S

Advanced study of some area or problem in the philosophy of science.  
Prerequisite: One of PHL 355HI – 357HI or HPS 250HI

### PHL440HI Clinical Bioethics 39S

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: PHL281Y, and permission of the instructor and Department. Limited to students enrolled in the Bioethics Specialist program.

### PHL451HI Seminar in Logic/Philosophy of Language 39S

Advanced study of some topic in logic and/or the philosophy of language.  
Prerequisite: PHL 245HI and one of PHL 232HI/240HI/246HI

### PHL470HI Advanced Bioethics 39S

Philosophical exploration of the foundations and methodology of bioethics. Offered jointly with PHL 2145H.  
Prerequisite: PHL 281YI and one of PHL 380HI/381HI/382HI/383HI/384HI, and permission of the instructor and Department. Limited to students enrolled in the Bioethics Specialist program.

### PHL471HI Advanced Topics in Greek Philosophy 39S

Prerequisite: PHL200YI and permission of the instructor and Department

# Philosophy

<p><b>PHL472HI    Advanced Topics in Medieval Philosophy                    39S</b> Prerequisite: PHL 200YI/205HI/ 206HI and permission of the instructor and Department</p>	<p><b>PHL490YI    Individual Studies (formerly PHL390YI)                    TBA</b></p>
<p><b>PHL473HI    Advanced Topics in Modern Philosophy                    39S</b> Prerequisite: PHL210YI and permission of the instructor and Department</p>	<p><b>PHL495HI    Individual Studies (formerly PHL395HI)                    TBA</b></p>
<p><b>PHL475HI    Advanced Topics in Moral Philosophy                    39S</b> Prerequisite: PHL275HI and permission of the instructor and Department</p>	<p><b>PHL496HI    Individual Studies (formerly PHL396HI)                    TBA</b></p>
<p><b>PHL476HI    Advanced Topics in Epistemology                    39S</b> Prerequisite: PHL232HI and permission of the instructor and Department</p>	<p><b>PHL 497HI    Individual Studies (formerly PHL397HI)                    TBA</b></p>
<p><b>PHL477HI    Advanced Topics in Metaphysics                    39S</b> Prerequisite: PHL232HI and permission of the instructor and Department</p>	<p><b>PHL 498HI    Individual Studies (formerly PHL398HI)                    TBA</b></p>
<p><b>PHL478HI    Advanced Topics in Philosophy of Religion                    39S</b> Prerequisite: PHL235HI/335HI and permission of the instructor and Department</p>	<p><b>PHL 499HI    Individual Studies (formerly PHL399HI)                    TBA</b></p>
<p><b>PHL479HI    Advanced Topics in Philosophy of Mind                    39S</b> Prerequisite: UNI250YI/PHL240HI/340HI/ 341HI/342HI and permission of the instructor and Department</p>	
<p><b>PHL480HI    Advanced Topics in Logic                    39S</b> Prerequisite: Two of PHL344HI-349HI and permission of the instructor and Department</p>	
<p><b>PHL481HI    Advanced Topics in the Philosophy of Language                    39S</b> Prerequisite: PHL351HI and permission of the instructor and Department</p>	
<p><b>PHL482HI    Advanced Topics in Philosophy of Natural Science                    39S</b> Prerequisite: One of PHL355HI – 357HI or HPS 250HI, and permission of the instructor and Department</p>	
<p><b>PHL483HI    Advanced Topics in Social and Political Philosophy                    39S</b> Prerequisite: PHL265HI and permission of the instructor and Department</p>	
<p><b>PHL484HI    Advanced Topics in the Philosophy of Law                    39S</b> Prerequisite: PHL271HI and permission of the instructor and Department</p>	
<p><b>PHL485HI    Advanced Topics in Aesthetics                    39S</b> Prerequisite: PHL285HI/PHL385HI and permission of the instructor and Department</p>	
<p><b>PHL486HI    Advanced Topics in Philosophy of History                    39S</b> Prerequisite: PHL362HI and permission of the instructor and Department</p>	
<p><b>PHL487HI/ 488HI/ 489HI    Advanced Topics in Philosophy                    TBA</b> Prerequisite: Permission of the instructor and Department</p>	

# Physical Education and Health

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## Offered by the Faculty of Physical Education & Health

The Faculty of Physical Education & Health is offering the course below to all students in the Faculty of Arts and Sciences; it is particularly suitable as a Science Distribution course for students in the Humanities and Social Sciences.

### **PHE110HI Active Healthy Living 26L, 13P**

This course increases student awareness of issues related to a healthy lifestyle and to the role of physical activity in promoting health across the lifespan. Important concepts in anatomy, physiology and nutrition are introduced, and the whole body benefits of physical activity are emphasized. Personal nutrition and lifestyle practices are examined and self-improvement plans developed. Full participation in physical activities required. Enrolment limit of 100 students.



## Faculty

### University Professors Emeriti

A.E. Litherland, B Sc, Ph D, FRSC, FRS  
B.P. Stoicheff, OC, MA, Ph D, D Sc, FRSC, FRS

### Professors Emeriti

R.L. Armstrong, MA, Ph D, FRSC  
R.E. Azuma, MA, Ph D  
H.R. Cho, M Sc, Ph D  
R.F. Code, AM, Ph D (UTM)  
H.C. Corben, MA, M Sc, Ph D  
R.C. Desai, B Sc, Ph D  
T.E. Drake, M Sc, Ph D  
J.R. Drummond, MA, D Phil  
D.J. Dunlop, MA, Ph D, FRSC (UTM)  
R.M. Farquhar, MA, Ph D, FRSC (UTM)  
G.D. Garland, OC, MA, Ph D, FRSC  
G.M. Graham, M Sc, Ph D  
A. Griffin, M Sc, Ph D, FRSC (UTSC)  
J.V. Iribarne, Dr In Chem  
D.G. Ivey, MA, Ph D  
A.E. Jacobs, M Sc, Ph D (UTSC)  
A.W. Key, MA, D Phil (I)  
J.D. King, BA, D Phil (UTSC)  
P.P. Kronberg, M Sc, Ph D, D Sc †  
M.J.G. Lee, MA, Ph D (UTSC)  
R. List, Dipl Phys ETH, Dr Sc Nat, FRSC  
R.K. Logan, B Sc, Ph D (N)  
F.D. Manchester, M Sc, Ph D  
A.D. May, MA, Ph D  
K.G. McNeill, MA, D Phil, FI Nuc E (T)  
J.W. Moffat, Ph D, D Sc  
K.H. Norwich, M Sc, MD, Ph D †  
P.J. O'Donnell, B Sc, Ph D (UTSC)  
D.A.L. Paul, BA, Ph D  
J.M. Perz, MA Sc, Ph D (UTSC)  
J.D. Prentice, M Sc, Ph D  
D.J. Rowe, MA, D Phil, FRSC  
J.C. Stryland, Ph D  
L.E.H. Trainor, MA, Ph D  
M.B. Walker, B Eng, D Phil  
G.F. West, MA, Ph D, FRSC  
S.S.M. Wong, M Sc, Ph D  
T.S. Yoon, M Sc, Ph D  
D. York, BA, D Phil, FRSC

### Professor and Chair of the Department

M. Luke, AM, Ph D

### Professor and Associate Chair (Graduate Studies)

T.G. Shepherd, B Sc, Ph D

### Associate Professor and Associate Chair (Undergraduate Studies)

D.C. Bailey, B Sc, Ph D

### University Professors

J.R. Bond, OC, MS, PH D, FRSC FRS †

S. John, B Sc, Ph D, FRSC

W.R. Peltier, M Sc, Ph D, FRSC

### Professors

J. Abbat, MA, Ph D †  
R.C. Bailey, B Sc, Ph D  
M.J. Bronskill, M Sc, Ph D, FCCPM †  
D.J. Donaldson, BSc, Ph D †  
R.N. Edwards, B Sc, Ph D, C Phys, F Inst P  
R. Holdom, MA, Ph D  
M.L.G. Joy, MA Sc, Ph D †  
S.R. Julian, B Sc, M Sc, Ph D  
Y-B. Kim, B Sc, M Sc, Ph D  
L. Kofman, B Sc, Ph D †  
G.J. Luste, BA, Ph D  
J.F. Martin, B Sc, D Phil †  
B. Milkereit, Ph D  
R.J.D. Miller, R.J.D., B Sc, Ph D  
J.X. Mitrovica, M Sc, Ph D  
G.W.K. Moore, B Sc, Ph D (UTM)  
N. Murray, Ph D †  
R.S. Orr, B Sc, Ph D  
J. Repka, B Sc, Ph D †  
P.K. Sinervo, B Sc, Ph D, FRSC  
J.E. Sipe, M Sc, Ph D (T)  
A.M. Steinberg, MA, Ph D  
K. Strong, B Sc, D Phil  
W. Trischuk, B Sc, Ph D  
H.M. van Driel, M Sc, Ph D, FRSC  
R. P. Young, Ph D †

### Associate Professors

K-Y. Chun, B A Sc, MA, Ph D †  
A-A. Dhirani, BSc, Ph D †  
D.F.V. James, Ph D  
H-Y. Kee, MS, Ph D  
P. Krieger, M Sc, Ph D  
P.J. Kushner, B Sc, M Sc, PhD  
H-K. Lo, Ph D  
R.S. Marjoribanks, MS, Ph D  
S. Morris, M Sc, Ph D  
B. Netterfield, BS, Ph D  
A. Peet, B Sc, Ph D  
U-L. Pen, M Sc, Ph D †  
E. Poppitz, Ph D  
A.C. Thompson, BS, Ph D †  
J.T. Wei, MS, Ph D

### Assistant Professors

V. Barzda, M Sc, Ph D (UTM)  
C. Gradinaru, Ph D (UTM)  
K. Hori, B Sc, Ph D  
D.B.A. Jones, AB, SM, Ph D  
Y-J. Kim, BS, Ph D  
J. Lowman, B A, M Sc, Ph D (UTSC)  
D. McMillen, B Sc, M Sc, Ph D †  
A. Paramakanti, B Tech, Ph D  
P. Savard, M Sc, Ph D  
S. Stanley, B Sc, Ph D

# Physics

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R. Teuscher, M Sc, Ph D †  
J. Thywissen, MS, Ph D  
K. Walker, B Sc, Ph D  
M. Wells, B Sc, Ph D (UTSC) †

## Senior Lecturers

D.M. Harrison, M Sc, Ph D  
R.M. Serbanescu, M Sc, Ph D

## Lecturers

V.B. Deyirmenjian, B Sc, Ph D  
J. Harlow, B Sc, Ph D

## Part-Time Lecturers

P. Savaria, M Sc, Ph D

† Cross-appointed or Research Scientist

Physics is the study of natural phenomena at the most fundamental level. Physicists investigate the properties of the states of matter and the structure and behaviour of the components of matter. The gravitational, electromagnetic and nuclear interactions are examined and different systems of mechanics including classical, relativistic, quantum and statistical, are developed to describe interactions between systems ranging from sub-atomic to galactic in size.

A program in physics has much to offer you. Besides traditional careers in teaching and research, knowledge of Physics is a powerful tool for a career in the Environmental or Life Sciences. An understanding of Physics is essential for those who are concerned about how society is affected by the impact of modern technology. The conceptual tools one acquires as a physicist can be applied with great success to many occupations.

The Specialist Program offers an intensive preparation for a career in Physics. By choosing courses from the wide variety offered, one can emphasize experimental, theoretical or even applied sides of physics. In fourth year, students intending to undertake graduate studies are encouraged to take advanced optional courses. Optional courses are offered in Sub-Atomic Physics, Quantum Optics and Condensed Matter Physics, or Geophysics and Atmospheric Physics, reflecting the research excellence of the faculty.

The Physics and Physiology Departments offer a biophysics program. This program is intended to combine the analytical problem solving skills of the physicist with a sound background in relevant biology. If you have an interest in biophysics please contact the Associate Chair for Undergraduate Studies.

The Applied Physics program focuses more on subject matter that will help one in an industrial career. As part of this program, students are encouraged to take advantage of the Professional Experience Year program.

A number of joint Physics Specialist programs are also offered in cooperation with the Departments of Astronomy, Chemistry, Computer Science, Environment, Geology, Mathematics, Philosophy, and Physiology.

The Professional Experience Year program ("PEY": see also page 19 and [www.peyonline.com](http://www.peyonline.com)) is available to eligible, full-time Arts & Science Specialist students after their second year of study. Physics students are encouraged to take advantage of this opportunity to apply their scientific and mathematical skills in a 12-16 month professional internship.

**Early Teacher Project:** The purpose of the Early Teacher Project is to encourage the best physical and mathematical sciences students to pursue careers as mathematics and science teachers in Ontario secondary schools. It has been developed in cooperation with OISE/UT, University of Toronto. To participate students must continue to be registered in a Physics Specialist program (consult with coordinator) and participate in an orientation session in second year. Subsequently, these students will work with experienced teachers in classrooms of primary/secondary schools in the third and fourth years. There will also be a workshop/seminar component organized jointly by University of Toronto at Scarborough and OISE/UT. Completion of the Early Teacher Project requires completion of PHY 341H1 and one of PHY 342H1 or PSCD03S (at Scarborough). These courses may have to be chosen as electives since they are not required in all our programs.

Successful completion of the Early Teacher Project, together with a Physics related Specialist program with a 2.5 GPA standing in the best fifteen FCEs will guarantee admission to OISE/UT for at least 30 students each year. The Early Teacher Project is administered at Scarborough through the coordinator for the ETP, Professor Charles Dyer (416-287-7206). The ETP is now being offered to St. George students. We encourage you to give this career option serious consideration. See the ETP web page [www.scar.utoronto.ca/~dyer/ETP/](http://www.scar.utoronto.ca/~dyer/ETP/) for further details. Students interested in teaching are also encouraged to apply to the Concurrent Teacher Education Program (see [www.ctep.utoronto.ca](http://www.ctep.utoronto.ca)).

The Departmental website gives detailed information on programs and courses, and describes the operation of the Department and the counselling 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 D. Bailey, Room 328, McLennan Physical Laboratories (416-978-6674);  
E-mail address: [ugchair@physics.utoronto.ca](mailto:ugchair@physics.utoronto.ca)

Enquiries:

Undergraduate Office, Room 301, McLennan Physical Laboratories (416-978-7057/5219)

Web site: <http://www.physics.utoronto.ca>

## Physics Programs

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Enrolment in the Physics programs requires completion of four courses; no minimum GPA is required. Students with a good grade in PHY 110Y1 may apply to the Physics Undergraduate Office for permission to enter a Physics Program requiring PHY 138Y1 or 140Y1.

### Applied Physics (Science program)

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Consult Professor D. Bailey, Associate Chair (Undergraduate Studies), Department of Physics.

### Specialist program:

(13.5 full courses or their equivalent, including at least one 400-series course)

First Year:

MAT 135Y1/137Y1, 223H1; PHY 140Y1

Second Year:

MAT 235YI/237YI, 244HI; PHY 225HI, 251HI, 252HI, 255HI, 256HI

Third Year:

APM 346HI; MAT 334HI; PHY 351HI, 352HI, 355HI

Fourth Year:

1. PHY 459HI, 478HI/426HI
2. In addition, students are required in their 3rd/4th year to take 2.0 courses in practical physics from: PHY 305-308HI; 407-408HI; 326HI/426HI/428HI/429HI; 495HI/496HI; and
3. An equivalent of 1.5 courses selected from one of the following streams:  
Condensed Matter Physics and Quantum Optics: PHY 353HI, 485HI, 487HI  
Atmospheric Physics: PHY 315HI, 353HI, 498HI  
Geophysics: JGP 438HI, PHY 359HI, 493HI, 494HI

**Note:**

Students intending to pursue a career in Industry are strongly urged to take advantage of the Professional Experience Year Program.

**Biophysics (Science program)**

Consult Associate Chair (Undergraduate Studies), Department of Physics or Physiology.

**Specialist program:**

(15.5 full courses or their equivalent, including at least one 400-series course)

First Year:

BIO 150YI; CHM (138HI, 139HI)/151YI; MAT 135YI/137YI; PHY 138YI/140YI (PHY 140YI recommended)

Second Year:

BCH 210HI; BIO 250YI; CHM 247HI; MAT 235YI/237YI, 244HI; PHY 251HI

First or Second Year:

MAT 223HI

Third Year:

JBO 302YI; PHY 225HI, 252HI, 255HI, 256HI, 346HI, 351HI

Fourth Year:

PSL 350HI/BIO 349HI; PHY 355HI, 407HI; PSL 303YI, 432HI

NOTES: We strongly recommend you consider taking the research project PHY 478HI/PSL 499HI.

**Physics (Science program)**

Consult Professor D. Bailey, Associate Chair (Undergraduate Studies), Department of Physics.

**Specialist program:**

(13.0 full courses or their equivalent, including at least one full-course at the 400 level)

First Year:

MAT 137YI/157YI, 223HI; PHY 140YI

Note: Students with a good grade in PHY 110Y/138Y may ask the Physics Undergraduate Office for entry into this or other Physics Programs requiring PHY 140Y.

Second Year:

MAT 237YI, 244HI; PHY 225HI, 251HI, 252HI, 255HI, 256HI

Third Year:

APM 346HI; MAT 334HI; PHY 351HI, 352HI, 353HI, 355HI, 357HI/358HI/359HI

Fourth Year:

PHY 457HI; two of 459HI/460HI/480HI

**NOTE: Third/Fourth Year Laboratories:**

All specialists must take a minimum of 1.5 courses in practical physics in third/fourth year. One half-course must be in the Advanced Physics Laboratory.

Advanced Physics Laboratory: PHY 326HI, 426HI, 428HI, 429HI

Electronics Laboratory: PHY 305HI

Computational Laboratory: PHY 307HI/308HI/309HI/407HI/408HI/409HI

Medical Imaging: PHY 445HI

**Major programs:**

**A. 'Core' Major**

(7.5 full courses or their equivalent, including at least 1.5 full-course equivalents at the 300+ level)

First Year:

MAT 137YI, 223HI; PHY 140YI

Second Year:

1. MAT 237YI, PHY 225HI
2. Three of: PHY 251HI, 252HI, 255HI, 256HI

Third Year:

1. MAT 244HI; PHY 305HI/307HI/308HI/309HI/326HI
2. Two of: PHY 351HI, 352HI, 353HI, 355HI, 357HI, 358HI, 359HI

**B. 'General' Major**

(7 full courses or their equivalent, including at least 1.5 full-course equivalents at the 300+ level)

NOTE: This program is intended for students in the Life Sciences

First Year:

MAT 135YI/137YI; PHY 138YI/140YI

Second Year:

MAT 235YI/237YI; PHY 225HI, 238YI/(251HI, 255HI)

Third Year:

1. MAT 244HI, PHY 256HI, 305HI/307HI/308HI/309HI/326HI
2. One full course equivalent from: JPA 305HI, JPA 310HI, JGP 438HI, PHY 315HI, 346HI, 445HI

**Minor programs:**

**A. 'Core' Minor**

(4 full courses or their equivalent)

First Year:

PHY 140YI

Second Year:

1. PHY 225HI
2. Three of: PHY 251HI, 252HI, 255HI, 256HI

Third Year:

1. PHY 305HI/307HI/308HI/309HI/326HI
2. One of PHY 351HI, 352HI, 355HI

**B. 'Life, Environmental, and General' Minor**

(4 full courses or their equivalent)

First Year:

MAT 135YI/137YI; PHY 138YI/140YI

Second Year:

# Physics

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ENV 235YI/ PHY 238YI or any other 1 full course equivalent from PHY courses at the 200+ level

Third Year:

One full course equivalent from: BIO 472HI, JPA 305HI, JPA 310HI; JGP 438HI; PHY 315HI, 346HI, 445HI or any other PHY300+ course; PSL454HI; JBO302Y may count as a half-course credit to this requirement.

**Earth Systems: Physics and Environment : see Centre for Environment**

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**Physics and Astronomy: see Astronomy**

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**Physics and Chemistry: see Chemical Physics in the Chemistry section**

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**Physics and Computer Science: see Computer Science**

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**Physics and Geology: see Geology**

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**Physics and Mathematics: see Mathematics**

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**Physics and Philosophy (Science program)**

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Consult Associate Chair (Undergraduate Studies), Department of Physics or Philosophy.

## Specialist program:

(16.0 full courses or their equivalent, including at least 2 full-course equivalents at the 400 level)

First Year:

PHY140YI; MAT137YI/157YI; MAT223HI; PHL 100YI

Second Year:

MAT237YI; MAT244HI; PHY251HI; PHY255HI; PHY256HI; HPS 250HI

Third Year:

MAT334HI; PHY252HI; PHY351HI; PHY352HI; PHY355HI

Fourth Year:

PHY457HI; PHY480HI/483HI; PHY491HI

Any Year:

PHL 245HI; 344HI/345HI/347HI/349HI; 355HI; 356HI; 415HI/482HI

2.5 additional PHL courses, including at least 0.5 at the 300+ level

**Planetary Science: see Astronomy and Astrophysics**

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## Physics Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all PHY courses are classified as SCIENCE courses.

### Note

Books listed in course descriptions will not necessarily be the texts for the course, but do indicate the level of presentation. More detailed and current information on courses is available through the Physics Department website. Pre- and co-requisites are recommendations which may be waived in special circumstances - students should consult the Department prior to the beginning of term.

## SCI199HI/YI First Year Seminar

52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

## PHY100HI The Magic of Physics

26L, 13T

In 1915 Einstein presented a quartet of papers that revolutionized our understanding of gravity. He commented: "Hardly anyone who has truly understood this theory will be able to resist being captivated by its magic." The General Theory of Relativity is not the only theory of physics that is magical, and Einstein was not physics' only magician. We uncover the wonders of the classical and the quantum world courtesy of Galileo, Newton, Maxwell, Einstein, Heisenberg and others. Topics include planetary motion, chaos, the nature of light, time travel, black holes, matter waves, Schrödinger's cat, and quarks. No mathematics is required, and any necessary elementary classical physics is reviewed.

Exclusion: PHY110YI/138Y/140Y taken previously or concurrently

PHY100HI is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

## PHY101HI Emergence in Nature

26L, 13T

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.

Exclusion: PHY110YI/138Y/140Y taken previously or concurrently

PHY101HI is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

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### Note

#### First Year Laboratory

Taken by all students enrolled in PHY110YI and 138YI. An introductory course in experimentation, starting with selected experiments, which each student is obliged to complete, but from there on, offering choices. Emphasis is on the general principles of experimentation: planning, use of instruments, error estimation, data analysis and comparison with theory, the keeping of complete records, and genuine exploratory work. Laboratories are given in alternate weeks; students taking Physics, Chemistry or Biology laboratories may schedule these on the same afternoon of alternate weeks.

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## PHY110YI Basic Physics

78L, 39P, 26T

Designed for students who do not intend to take more than one course in Physics, but who wish to acquire a working knowledge of basic physics needed in other areas of science. The course is offered at a level similar to Grade 12 Physics. Students in other disciplines who wish some exposure to the

methods and excitement of modern physics should consider either PHY100HI, PHY201HI, or PHY205HI. (See "NOTE" after PHY100HI giving description of laboratory.)

Reference: Cutnell, Physics 7th edition (Wiley)

Exclusion: Senior (e.g. SPH4U) high school Physics or equivalent taken within the previous 5 years, PHY138Y1/I40Y1. Note: Students will be required to withdraw from PHY110Y at any time if they are found to have senior high school Physics (see "Exclusions" on Page 35).

Prerequisite: Grade 12 "4U" Mathematics (Some calculus recommended or MAT 135Y1/I37Y1/I57Y1)

Co-requisite: Students intending to take any higher level Physics course are expected to take at least MAT135Y1.

PHY110Y1 can be taken as a Science course for Distribution Requirement purposes

**PHY138Y1 Physics for the Life Sciences I 52L, 39P, 26T**

This course is recommended strongly for students following a life science program. This course introduces topics in physics relevant for life sciences. Mechanics; torque and statics; work, power and energy; viscous forces; vibrations and waves; sound; optics; electric and magnetic forces and fields; dielectric and conductors; nuclear medicine; dose from radiation; nuclear physics. (See "NOTE" after PHY100HI giving description of laboratory.)

Reference: Knight, Physics for Scientists and Engineers, 1st edition (Pearson) + Notes

Exclusion: PHY110Y1/I40Y1

Prerequisite: MCB4U Functions & Calculus and SPH4U Physics

Co-requisite: MAT135Y1/I37Y1/I57Y1

**PHY140Y1 Foundations of Physics 78L, 39P, 26T**

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: the motion of single particles and rigid, extended bodies (Newtonian Mechanics); the concepts of force, work, and energy; simple harmonic motion; planetary motion, gravitation; black holes; special relativity; an introduction to elementary particle physics; electrostatics; the breakdown of Newtonian mechanics in the microscopic world; atomic and nuclear physics; an introduction to Quantum Mechanics, wave-particle duality and the uncertainty principle. Students take the Physics Specialist Laboratory in alternating weeks. The first component consists of dynamics and mechanics experiments in our computer based laboratory. The second component consists of a free choice experiments chosen from a list of basic experimental techniques, standard and classic experiments.

Reference: Knight, Physics for Scientists and Engineers 1st edition (Pearson)

Exclusion: PHY110Y1/I38Y1

Prerequisite: MCB4U Functions & Calculus and SPH4U Physics

Co-requisite: MAT137Y1/I57Y1, (MAT223HI/240HI recommended)

**PHY189HI Physics at the Cutting Edge 39L**

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.

Co-requisite: PHY138Y1/I40Y1

**Note**

Exceptional first year students, for example those who have scored very high on the Canadian Association of Physics High School Exam, may be allowed direct enrollment in Physics Second Year Courses. Contact the Physics Undergraduate Office.

**200-SERIES COURSES**

**Note**

All 200-series PHY courses except PHY201HI and PHY205HI require MAT135Y1/I37Y1/I57Y1.

**PHY201HI Concepts of Physics 26L, 13T**

A conceptual overview of some of the most interesting advances in physics and the intellectual background in which they occurred. The interrelationship of the actual practice of physics and its cultural and intellectual context is emphasized.

PHY201HI is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

**PHY205HI The Physics of Everyday Life 26L, 13T**

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.

Exclusion: PHY110Y1/I38Y1/I40Y1 taken previously or concurrently

PHY205HI is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

**JOP210HI Holography for 3D Visualization 26L, 58P**

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; color perception; stereograms. Applications of holography in art, medicine, and technology. Computer simulation, design, and construction of holograms.

Prerequisite: PHY110Y1/I38Y1/I40Y1/I80HI/MIE100HI

**PHY225HI Fundamental Physics Laboratory 26L, 78P**

The 2nd year Physics Laboratory. Topics including experimental techniques, instrumentation, and data analysis are introduced through experiments, complementary lectures, and library research to some of the great experiments of physics.

Prerequisite: PHY138Y1/I40Y1

Co-requisite: PHY 238Y/251HI/252HI/255HI/256HI

**ENV235Y1 Physics and Chemistry of Planet Earth 52L**

See "Centre for Environment"

The formation and evolution of Earth as a planet in the Solar System: origin of the elements, composition of planets, mantle-core differentiation, tectonics, geologic change and time scales. The biosphere: i.e., the Earth's atmosphere, oceans and

# Physics

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crust: operation as a physicochemical system, atmospheric composition and roles of major and minor constituents, ocean/atmosphere energy budgets, circulations and couplings; climate, glaciation. The effects of human intervention and natural processes: e.g., groundwater quality, atmospheric change, volcanic activity. Given by the Departments of Physics and Chemistry.

Prerequisite: CHM (138HI, 139HI)/151YI; MAT135YI/137YI/157YI/JMB170YI; PHY138YI/140YI

## **PHY238YI Physics for the Life Sciences II 78L, 26T**

Electromagnetism; biological effects of radiation; physical optics; macroscopic phenomena; heat engines and metabolism. Examples are taken, where applicable, from the life sciences. Exclusion: PHY251HI

Prerequisite: (PHY110YI, MAT135YI)/PHY138YI/140YI

Recommended preparation: BIO150YI/a CHM100-series course

Co-requisite: None, but students taking any higher level Physics course are expected to have at least MAT235YI

## **PHY251HI Electricity and Magnetism 26L, 13T**

Point charges; Coulomb's Law; electrostatic field and potential; Gauss' Law; conductors; electrostatic energy; magnetostatics; Ampere's Law; magnetostatic energy; Lorentz Force; Faraday's Law; dielectric and magnetic materials; Maxwell's equations. Exclusion: PHY238YI

Prerequisite: PHY138YI/140YI

Co-requisite: MAT235YI/237YI/257YI

## **PHY252HI Thermal Physics 26L, 13T**

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.

Reference: Kittel and Kroemer, Thermal Physics

Prerequisite: PHY138YI/140YI

Co-requisite: MAT235YI/237YI/257YI

## **PHY255HI Oscillations and Waves 26L, 13T**

Complex notation; free, damped and forced harmonic oscillations; resonance; AC circuits; coupled oscillators; normal modes; travelling waves; simple harmonic wave; wave equation; wave impedance; transverse and longitudinal waves; flow of energy in waves; reflection and transmission at interfaces; group and phase velocity; Fourier series and Fourier transforms.

Prerequisite: PHY138YI/140YI

Co-requisite: MAT235YI/237YI/257YI (MAT244HI recommended)

## **PHY256HI Introduction to Quantum Physics 39L, 13T**

Failures of classical physics; the Quantum revolution; Stern-Gerlach effect; harmonic oscillator; uncertainty principle; interference packets; scattering and tunnelling in one-dimension.

Prerequisite: PHY138YI/140YI

Co-requisite: MAT235YI/237YI/257YI (MAT223HI/240HI recommended)

## **PHY299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

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## **300-SERIES COURSES**

### **Note**

Students taking 300-series courses are invited to attend the Thursday afternoon Department colloquia.

## **JBO302YI Human Physiology and Biophysics 78L, 14T**

Principles of Human Physiology with tutorials on the biophysical concepts applied to physiological processes. Restricted to students enrolled in the Biophysics and Physiology (Theoretical) programs.

Exclusion: PSL201YI, 302YI

Prerequisite: BIO150YI; CHM138HI; MAT135YI/137YI; PHY138YI/140YI

## **JPA305HI Introduction to Archaeometry 26L, 13P**

Introduction to methods for remote sensing of buried archaeological remains, (magnetics, resistivity, electromagnetics), dating (Carbon 14, TL, ESR, etc.) and analysis (X-Ray, INAA) of ancient materials. Application of methods and interpretation of results in archaeological contexts. Issues of art and authenticity are also addressed. Course includes a laboratory component. (Not offered every year) (Given by the Departments of Physics and Anthropology)

Reference: Aitken, Physics and Archaeology; Tite, Methods of Physical Examination in Archaeology; Fleming, Dating in Archaeology

## **JPA310HI Physics and Archaeometry 26L, 13P**

Introduction to the principles behind archaeometric methods for remote sensing, dating, and analysis of archaeological materials, and interpretation of results. Course includes both field and in-house laboratory components. Offered in conjunction with JPA305HI. (Not offered every year) (Given by the Departments of Physics and Anthropology)

Prerequisite: Any 1st-year Physics course or permission of instructor

Co-requisite: JPA305HI

## **PHY305HI Electronics Lab I 26L, 39P**

The laboratory functions as an integrated lecture course/laboratory program. Passive linear circuits: theorems, networks, and equivalents; meters, transient and steady responses, power, transformers, transmission lines. Digital devices: gates logic, Boolean algebra, minimization, flip-flops, counters, delays. Op-amps: dependent sources, amplifiers, integrators, feedback, slew rate, filters. Diodes: peak detector, rectification, regulators. Noise: sources, grounding, shielding, ground loops. Transistors: characteristics, analysis, amplifier design.

Prerequisite: PHY225HI, 251HI, 255HI

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### **Note**

Computational Laboratory: Students may select one or more modules from PHY307HI/308HI/309HI below. The laboratory functions as an integrated lecture course/laboratory program. Students taking a second module can receive a 4th year credit (see listings for PHY407H/408H/409H).

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**PHY307HI Introduction to Computational Physics 13L, 39P**

Problem solving with computers, using both algebraic and numerical methods. After a brief introduction to the basic techniques, various physics problems are treated with increasingly more sophisticated techniques. Examples include the physical pendulum, heat equation, quantum mechanics, Monte Carlo simulation, differential equation, and graphical presentation of results.

Exclusion: PHY407HI

Co-requisite: Any third-year lecture course in Physics

**PHY308HI Times Series Analysis 13L, 26P**

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.

Exclusion: PHY408HI

Co-requisite: Any third-year lecture course in Physics

**PHY309HI Quantum Methods Using Computer Algebra 26L, 26P**

Classic quantum mechanics problems are explored using Maple computer algebra and graphics. These include bound state and scattering problems in 1D, angular momentum and spin, commutator algebra, scattering in 3D and time dependent processes. General techniques for computer-aided problem solving are developed.

Exclusion: PHY409HI

Co-requisite: Any third-year lecture course in Physics

**PHY315HI Radiation in Planetary Atmospheres 26L**

The role of radiation in the generation, maintenance and evolution of planetary atmospheres and climate: Radiation laws, absorption and emission. Simple radiative exchange processes and atmospheric models. Energy balance. Radiation and climatic change. Comparative radiation studies in planetary atmospheres. Pollution and man-made effects.

Prerequisite: PHY238Y1/251HI; MAT235Y1/237Y1

**PHY326HI Advanced Physics Laboratory 150P**

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 open from 9 a.m. - 5 p.m., Monday to Friday.

Prerequisite: PHY225HI, 251HI, 256HI

**PHY341HI Physical Science in Contemporary Society 26L**

Complex nature of the scientific method; inter-connection between theory, concepts and experimental data; characteristics of premature, pathological and pseudo-science; public perception and misperception of the scientific method; the supposed end of the Golden Era of Science; the insufficiency of reductionism; trends in modern science. (Offered in alternate years with PHY 342HI)

Prerequisite: must be registered in Early Teacher Project or Physics program

**PHY342HI Current Questions in Mathematics and Science 26L**

Topics of current prominence in the physical sciences and mathematics are discussed. Topics change each year as the sciences evolve. Appropriate topics might include: high-

temperature superconductivity, cosmology, chaos and non-linear dynamics. (Offered in alternate years with PHY 341HI)

Prerequisite: must be registered in Early Teacher Project or Physics program

**PHY346HI Intermediate Biophysics 26L, 13T**

Molecular structure of biological systems: bonds, orbitals, molecular excitation and energy transfer; theory of absolute reaction rate, formation of biomacromolecules. Energetics and dynamics of biological systems: state functions, entropy and stability, thermodynamic basis of biochemical reactions, analysis of fluxes, electric fields in cells and organisms. The kinetics of biological systems: problems and approaches of system and compartmental analysis, models of biochemical reactions and some complex biological processes.

Prerequisite: MAT235Y1/237Y1/257Y1; PHY238Y1/251HI

**PHY351HI Classical Mechanics 26L, 13T**

Symmetry and conservation laws, stability and instability, generalized co-ordinates, Hamilton's principle, Hamilton's equations, phase space, Liouville's theorem, canonical transformations, Poisson brackets, Noether's theorem.

Prerequisite: MAT244HI/267HI; PHY255HI

**PHY352HI Electromagnetic Theory 26L, 13T**

Review of vector & tensor calculus, transformation properties of vectors & tensors, electrostatics, basic formulae of magnetostatics, electrodynamics (Maxwell's Equations), gauge transformations of scalar & vector potentials, retarded potentials, Liénard-Wiechert potentials, radiation, special theory of relativity, relativistic mechanics and relativistic electrodynamics.

Prerequisite: MAT223HI/240HI/244HI; PHY251HI, 255HI

**PHY353HI Electromagnetic Waves 26L, 13T**

Review of Maxwell's equations; electric fields in matter; magnetic fields in matter; electromotive force; electromagnetic induction; electromagnetic waves in vacuum; waves in dielectric and conductive materials, skin effect; waves in dispersive media: polarization phenomena; Fresnel equations; reflection and refraction from an interface; Brewster angle, total internal reflection; interference, coherence effects; interferometers; Fraunhofer and Fresnel diffraction; waveguides, optical fibres, radiation.

Prerequisite: PHY352HI

**PHY355HI Quantum Mechanics I 26L, 13T**

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.

Exclusion: CHM326HI

Prerequisite: MAT223HI/240HI/244HI; PHY251HI, 256HI/CHM225Y

**PHY357HI Nuclear and Particle Physics 26L, 13T**

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 PHY 400-level course.

Prerequisite: PHY355HI

# Physics

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**PHY358HI Atoms, Molecules and Solids 26L, 13T**

Quantum theory of atoms, molecules, and solids; variational principle and perturbation theory; hydrogen and helium atoms; exchange and correlation energies; multielectron atoms; simple molecules; bonding and antibonding orbitals; rotation and vibration of molecules; crystal binding; electron in a periodic potential; reciprocal lattice; Bloch's theorem; nearly-free electron model; Kronig-Penney model; energy bands; metals, semiconductors, and insulators; Fermi surfaces. This course is not a prerequisite for any PHY 400-level course.  
Prerequisite: PHY355HI

**PHY359HI Physics of the Earth 26L, 13T**

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: PHY 140Y1/255HI, MAT 235Y1/237Y1, MAT244 (Or permission of instructor)

**PHY371YI/ Supervised Reading in Physics TBA 372HI**

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.

Prerequisite: Permission of Department

**PHY398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

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## 400-SERIES COURSES

### Note

A program including one or more of PHY 470-472, PHY 478-479, or PHY 480-499 must be endorsed by the Department. Students taking 400-series courses are invited to attend Thursday afternoon Department colloquia.

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**JPA400YI Advanced Physics and Archaeology 156P**

An introduction to research in archaeometry and archaeological prospecting. Possible projects: magnetic and resistivity surveying of archaeological sites; thermoluminescence measurements; neutron activation analysis and x-ray fluorescence analysis of artifacts; radiocarbon dating by atom counting; lead isotope analysis. (Offered only occasionally by the Departments of Physics and Anthropology)

Prerequisite: JPA310HI

**PHY407HI Introduction to Computational Physics 13L, 39P**

For course description see PHY307HI.

Exclusion: PHY307HI

Prerequisite: PHY 308HI/309HI or enrollment in Biophysics program

**PHY408HI Times Series Analysis 13L, 26P**

For course description see PHY308HI.

Exclusion: PHY308HI

Prerequisite: PHY 307HI/309HI

**PHY409HI Quantum Methods Using Computer Algebra 26L, 26P**

For course description see PHY309HI.

Exclusion: PHY309HI

Prerequisite: PHY 307HI/308HI

**PHY426HI Advanced Physics Laboratory II 150P**

Prerequisite: PHY 326HI

**PHY428HI Advanced Physics Laboratory III 150P**

Prerequisite: PHY 426HI/325Y1

**PHY429HI Advanced Physics Laboratory IV 150P**

Experiments in these advanced laboratory courses are designed to form a bridge to current experimental research. A wide range of experiments relevant to modern research in physics is available. These courses are a continuation of PHY326, but students have more freedom to progressively focus on specific areas of physics or to do extended experiments or projects. The lab is open from 9:00am. - 5:00pm, Monday to Friday.

Prerequisite: PHY 428HI

**JGP438HI Shallow Crust Geophysics 26L, 52P**

An introduction to the geophysical exploration of the subsurface. Topics covered include gravity, seismic, magnetic, electrical and electromagnetic surveying and their application in prospecting, hydrogeology, and environmental assessments. This course is intended primarily for geological engineering and geology students.

Exclusion: PHY496HI

Prerequisite: GLG306HI; MAT223HI/235Y1; PHY138Y1/140Y1 or permission of instructor

**PHY445HI Medical Imaging 26L, 20P, 13T**

The mathematical, physical and engineering basis for medical imaging is introduced by combining the mathematical description of linear systems with the physics of imaging systems utilizing x-rays, ultrasound, and magnetic resonance techniques. The combination of mathematics and physics that has led to the development of modern medical imaging systems is emphasized. Data for problem sets and labs will be processed using MATLAB software. Students not in a physics specialist program should consult the lecturer about the recommended background

See Course Website at <http://www.ecf.utoronto.ca/apsc/courses/bme595f> for textbook and references

Prerequisite: MAT244HI/APM346HI; MAT235Y1/237Y1; PHY238Y1/251HI

Recommended preparation: PHY307HI/308HI

**PHY457HI Quantum Mechanics II 26L, 13T**

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: PHY355HI

**PHY459HI Macroscopic Physics 26L, 13T**

Thermal equilibrium and temperature; the three laws of thermodynamics; entropy and free energy, phases and phase transitions; Fluid dynamics; the Euler and Navier-Stokes equations; vorticity, waves; stability and instability; turbulence. Prerequisite: PHY252HI, 351HI



**PHY460HI Nonlinear Physics 26L**

Nonlinear oscillator; nonlinear differential equations and fixed point analysis; stability and bifurcation; Fourier spectrum; Poincare sections; attractors and aperiodic attractors; KAM theorem; logistic maps and chaos; characterization of chaotic attractors; Benard-Rayleigh convection; Lorenz system.  
Prerequisite: PHY351HI

**PHY471YI/ 472HI Supervised Reading in Physics TBA**

These self-study courses are similar to PHY371YI/372HI, at a higher level.

Prerequisite: Permission of Department

**PHY478HI/ 479YI Undergraduate Research Project TBA**

An introduction to research in Physics. For further information contact the Associate Chair, Undergraduate Studies.

Prerequisite: Permission of Department

## FOURTH-YEAR OPTIONAL ADVANCED PHYSICS COURSES

### Note

The Department of Physics offers senior undergraduate students a set of specialized optional courses. NONE of these courses are required to complete a Specialist Program in Physics but taking several of these courses is recommended strongly to students wishing to pursue graduate studies.

### Note

Most Advanced Courses are offered every year, but some are not. Please check the Physics Department website for current offerings. It is the student's responsibility to ensure they have adequate preparation for any of the Advanced courses. Please contact the course instructor or the Associate Chair, Undergraduate Studies for more information.

**PHY480HI Basic Statistical Mechanics 26L**

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.

**PHY483HI Relativity Theory I 26L**

Basis to Einstein's theory: differential geometry, tensor analysis, gravitational physics leading to General Relativity. Theory starting from solutions of Schwarzschild, Kerr, etc.

**PHY484HI Relativity Theory II 26L**

Applications of General Relativity to Astrophysics and Cosmology. Introduction to black holes, large-scale structure of the universe.

**PHY485HI Modern Optics 26L**

Basic optics, diffraction theory, Gaussian beams, laser resonators, semiclassical laser theory and ultrafast pulse generation. Selected reviews from the range of modern areas of research, e.g. laser cooling, photonic bandgap structures, extreme optics, quantum information, and other topics.

Prerequisite: PHY353HI, 355HI

**PHY487HI Condensed Matter Physics 26L**

Introduction to the concepts used in the modern treatment of solids. The student is assumed to be familiar with elementary quantum mechanics. Topics include: crystal structure, the reciprocal lattice, crystal binding, the free electron model, electrons in periodic potential, lattice vibrations, electrons and holes, semiconductors, metals.

**PHY489HI Introduction to High Energy Physics 26L**

This course surveys the experimental basis and theoretical framework of the "Standard Model" of Particle Physics and its possible extensions. Topics include the standard electroweak model, scattering and parton distributions, strong interactions and quantum chromodynamics.

**PHY491HI Current Interpretations of Quantum Mechanics 26L, 13T**

Review of conventional, textbook quantum mechanics. Formal measurement theory and wave function collapse; quantum states and nonseparability, violation of local causality, Bell theorems, "quantum tricks", decoherence and the emergence of classical behaviour. Hidden variables, deBroglie-Bohm theory and generalizations, many-worlds interpretation and other theories of "beables". Consistent histories approach of Omnes and Gell-Mann and Hartle; nature of "True" and "Reliable" statements.  
Prerequisite: PHY457HI

**PHY493HI Geophysical Imaging I 26L**

This course covers wavefield and ray approximation methods for imaging the interior of the Earth (including hydrocarbon reservoirs and mineral deposits) using seismology.

**PHY494HI Geophysical Imaging II 26L**

How to investigate Earth structure at depths ranging from metres to tens of kilometres using gravity, magnetic, electrical, electromagnetic and nuclear geophysical methods. Current methodologies and the theoretical basis for them are presented.

**PHY495HI Experimental Global Geophysics 26L**

This course deals with the numerical analysis of data associated with space geodesy, earthquake seismology, geomagnetism and palaeomagnetism, isotope geochronology, as well as numerical simulations of a wide variety of geodynamic processes (e.g. mantle convection, post-glacial rebound, Earth tides).

Co-requisite: PHY359HI

**PHY496HI Experimental Applied Geophysics 39P**

A laboratory course (with introductory lectures) dealing with physical methods for exploring Earth structure; i.e., seismic, gravity, magnetic, electrical, electromagnetic, and nuclear methods. It is designed to give "hands on" experience with the techniques of geophysical data analysis as well as data acquisition.

Exclusion: JGP438HI

Co-requisite: PHY493HI/494HI

**PHY498HI Advanced Atmospheric Physics 26L**

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.

# Planetary Science

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## Sponsored by the Departments of Astronomy & Astrophysics, Chemistry, Geology and Physics

The Planetary Science Program is an interdisciplinary program sponsored by the Departments of Astronomy & Astrophysics, Chemistry, Geology and Physics. It focuses mainly on the study of the planets in our own solar system, but extrasolar planets are also discussed. The aim is to provide information about different techniques for studying the nature and origin of planets and planetary systems.

Students enrolled in this program must consult the undergraduate secretary of one of the participating departments for advice on the selection of courses. Students interested in pursuing graduate studies in one of these disciplines should include core courses from the appropriate department(s) in their course selection.

## Planetary Science Program

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### Planetary Science (Science program)

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#### Specialist Program:

(14 full courses or equivalent, including at least one 400+series course)

Enrolment in the Planetary Science Specialist program is open to students who have completed four full course equivalents.

First Year:

(CHM 138HI, 139HI)/151YI; MAT 135YI/137YI; PHY 138YI/140YI (MAT 137YI and PHY 140YI preferred)

First or Second Year:

MAT 223HI/240HI

Second or Third Year:

AST 221HI; CHM 225YI/(PHY252HI, 256HI); CHM 238YI; GLG 206HI, 216HI/207HI; MAT 235YI/237YI (MAT 237YI preferred); MAT 244HI; PHY 251HI, 255HI

Third and/or Fourth Years:

1. PHY 315HI, 359HI
2. At least three of AST 325HI; CHM 327HI, 338HI; GLG 318HI, 440HI, 465HI; PHY 351HI, 407HI, 408HI, 499HI
3. One additional 300+series course; consult with appropriate Undergraduate Secretary for course selection

Fourth Year:

PLN 420HI, 425HI

## Planetary Science Courses

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For Distribution Requirement purposes, all PLN courses are classified as SCIENCE courses (see page 27).

### PLN420HI Interdisciplinary Seminar in Planetary Science 26S

Discussion of topics of current interest in planetary science with emphasis on papers published in scientific journals. This course is intended for students in the final year of the Planetary Science specialist program. Students must enrol with the course coordinator.

### PLN425HI Research in Planetary Science 130P

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.

**Polish: See Slavic Languages and Literatures**

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**Faculty**

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**University Professor Emeritus**

P.H. Russell, OC, D Sc, MA, LL D, FRSC (I, T)

**Professors Emeriti**

E.G. Andrew, BA, Ph D  
J.S. Barker, MA, Ph D (N)  
M. Brownstone, MS, DPA, LL D  
S. Clarkson, MA, D de Rech, FRSC (M)  
S.J. Colman, MA  
M.W. Donnelly, MA, Ph D  
J.S. Dupré, OC, O Ont, AM, Ph D, DScSoc, LL D, DU  
V.C. Falkenheim, MA, Ph D  
P.W. Fox, OC, MA, Ph D  
W.E. Grasham, BA Sc, MA  
R. Gregor, MA, Ph D (T)  
F.J.C. Griffiths, MIA, Ph D (U)  
J.E. Hodgetts, OC, MA, Ph D, LL D, FRSC  
G. Horowitz, MA, Ph D  
A.W. Johnson, CC, MA, MPA, Ph D, LL D  
B. Kovrig, MA, Ph D (T)  
† A.M. Kruger, BA, Ph D  
R.A. Manzer, MA, Ph D (UTSC)  
R.O. Matthews, BA, MIA, Ph D (T)  
J.T. McLeod, MA, Ph D (U)  
J. Nun, LL M, Ph D  
F.W. Peers, B Ed, MA, Ph D  
R.C. Pratt, OC, MA, M Phil, FRSC (U)  
† A. Rotstein, BA, Ph D (M)  
P. Silcox, MA, Ph D (UTM)  
J.E. Smith, AB, Ph D, DLit  
R.E. Stren, MA, Ph D (I)  
C. Tuohy, MA, Ph D, FRSC  
M.E. Wallace, BA, Ph D, FRSC  
† M.H. Watkins, B COM, LL D (U)

**Professor and Chair of the Department**

D.R. Cameron, M Sc, Ph D, FRSC

**University Professor and Associate Chair**

J.G. Stein, OC, MA, Ph D, LL D, FRSC (U)

**Professor and Associate Chair (Graduate Studies)**

D.A. Welch, AM, Ph D (U)

**Associate Professor and Associate Chair (Undergraduate Studies)**

L.White, MA, Ph D

**Professors**

E. Adler, BA, MA, Ph D  
S. Bashevkin, MA, Ph D, FRSC (U)  
H. Bathelt, Dipl-Geogr, Dr rer nat, Habil  
R.S. Beiner, BA, D Phil, FRSC (UTM)  
† S. Borins, BA, MPP, Ph D  
A. Braun, MA, Ph D (UTM, T)  
† A.S. Brudner, LL B, MA, Ph D  
J.H. Carens, M Phil (Theol), M Phil, Ph D  
S.E. Chambers, MA, M Phil, Ph D

† F.A. Cunningham, MA, Ph D, FRSC (I)  
R.B. Day, Dip REES, MA, Ph D (UTM)  
† R.B. Deber, SM, Ph D (Health Policy)  
H.D. Forbes, MA, Ph D  
† R. Hirschl, LLB, MA, M Phil, Ph D  
† T. Homer-Dixon, BA, Ph D (U)  
J.S. Kopstein, MA, Ph D  
L. LeDuc, MA, Ph D (SM)  
P.R. Magocsi, MA, MA, Ph D, FRSC  
J. Nedelsky, MA, Ph D  
N. Nevitte, MA, Ph D  
C. Orwin, MA, Ph D (SM)  
L.W. Pauly, MA, M Sc, Ph D (T)  
D.M. Rayside, AM, Ph D (U)  
† K. Roach, LLB, LLM, FRSC  
A.G. Rubinoff, MA, Ph D (UTSC)  
K.R.J. Sandbrook, MA, D Phil, FRSC  
D.V. Schwartz, MA, Ph D  
† R. Simeon, MA, Ph D, FRSC  
G. Skogstad, MA, Ph D (UTSC)  
P. H. Solomon, MA, Ph D (UTM)  
S.G. Solomon, MA, Ph D (UTSC)  
† A. Stark, M Sc, AM, Ph D  
J.A. Teichman, MA, Ph D (UTSC)  
R. Vipond, MA, Ph D (V)  
† L.E. Weinrib, BA, LL B, LL M  
G. White, MA, Ph D (UTM)  
M.S. Williams, AM, Ph D  
D.A. Wolfe, MA, Ph D (UTM)

**Associate Professors**

R.K. Balot, MA, Ph D  
S. Bernstein, MA, Ph D (UTM)  
J. Bertrand, M Sc, MA, Ph D  
† S. Choudhry, LLB, LLM  
D.B. Cook, MA, Ph D (V)  
R.J. Deibert, MA, Ph D (T)  
† D.L. Eyoh, MA, Ph D (N)  
J.F. Fletcher, MA, Ph D  
R.S. Haddow, M Sc, Ph D  
R. Hansen, M Phil, D Phil  
P.W.T. Kingston, MA, M Phil, D Phil (UTSC)  
J.J. Kirton, MA, Ph D (T)  
† N. Kokaz, MA, Ph D (U)  
P.L. McCarney, MCP, Ph D  
† D. Schneiderman, LLB, LLM  
† A. Shachar, BA, LLB, LLM, JSD  
† L. Sossin, MA, LLM, Ph D, JSD  
N. Wiseman, MA, Ph D  
J. Wong, MA, Ph D

**Assistant Professors**

L. Alexander, MA, Ph D  
A.M. Bejarano, MA, M Phil, Ph D (UTM)  
S. Benjamin, B Arch, MS Arch, Ph D  
L. Gilady, MA, M Phil, Ph D  
A. Handley, M Phil, Ph D  
A. Henderson, M Sc, Ph D (UTM)  
M.J. Hoffmann, M Phil, Ph D (UTSC)

# Political Science

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R. Kingston, MA, Ph D  
R. Levine, MA, Ph D  
W. Mwangi, MA, Ph D (UTM)  
C. Norrlöf, MA, Ph D (UTSC)  
D. Pond, MA, Ph D (UTM)  
E. Schatz, MA, Ph D, (UTM)  
T. Triadafilopoulos, MA, Ph D (UTSC)  
L. Way, MA, Ph D (UTSC)

## Senior Lecturer

M. Lippincott, MA, Ph D (UTM)

† Cross-appointed

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 as we prepare for 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 foreign area studies. A student planning graduate work in the social sciences should seek to obtain a basic understanding of each of these disciplines.

The Department publishes a Handbook for undergraduate students that provides detailed information on our programs, extended descriptions of courses, and background information on the interests of our instructors, and advice on how to put together a program. Copies may be obtained from the Department Office on the third floor of Sidney Smith Hall, or from the offices of College Registrars. 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 L. White, Sidney Smith Hall, Room 3030 (416-978-3342)

Undergraduate Administrator: E. Jagdeo, Sidney Smith Hall, Room 3027 (416-978-3340)

Enquiries: (416-978-3343)

Undergraduate Program Information and Course Descriptions:  
<http://www.chass.utoronto.ca/polsci>

## Political Science Programs

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### Political Science (Arts program)

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Enrolment in the Political Science Specialist, Major, and Joint Specialist Programs is limited. Students enrolling at the end of first year (or four full courses or their equivalent) must obtain a cumulative GPA of at least 2.0 and a mark of at least 67% in one full Political Science course or the equivalent in half courses. Students applying to enrol after second year (or eight full courses or their equivalent) must obtain a cumulative GPA of at least 2.3 and a mark of at least 70% in each of two full Political Science courses or the equivalent in half courses.

### Specialist program:

(10 POL full courses or their equivalent including two 300+ series courses and two 400-series courses)

Notes:

1. At least one course in Canadian politics must be completed. The Canadian politics requirement will be satisfied by only POL103Y1/214Y1.
2. Students must complete courses in at least four fields: Canadian politics, political theory, and two of international relations, comparative politics (industrial), comparative politics (developing).

First Year:

POL103Y1/105Y1/108Y1

Higher Years:

1. POL200Y1, 242Y1, 320Y1
2. Two full courses from the following: POL201Y1/(203Y1/207Y1)/208Y1/214Y1/215Y1
3. Four additional POL courses

### Major program:

(7 POL full courses or their equivalent including at least two 300+series courses)

Note:

At least one course in Canadian politics must be completed. The Canadian politics requirement will be satisfied by only POL103Y1/214Y1.

First Year:

POL103Y1/105Y1/108Y1

Higher Years:

1. POL200Y1
2. Two full courses from the following: POL201Y1/(203Y1/207Y1)/208Y1/214Y1/215Y1
3. Three additional POL courses

### Minor program:

(4 POL full courses or their equivalent)

Enrolment in this program is limited to students with a minimum grade of 65% in a POL course; and all students need to have completed 4 full course equivalents toward a degree.

Note:

The four POL full courses or their equivalent to include at least one 300+series course and no more than one at the 100-level.

### Political Science and Economics: see Economics

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### Political Science and History: see History

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### Political Science and Philosophy: see Philosophy

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## **Political Science and Sociology (Arts program)**

Consult Department of Political Science.

Enrolment in this program is limited to students with 65% in SOC 101Y1, and 70% in each of SOC 200HI, 202HI, 203Y1, and 204HI. Students need to have completed 8 full courses and be enrolled in the Sociology Major program. Students should also have met the requirements of the Political Science Department (see details under Political Science above).

### **Specialist program (Arts program):**

(14.5 full courses or their equivalent)

#### **Political Science**

Seven courses, including at least one 300+ series course and one 400-series course.

Note:

At least one course in Canadian politics must be completed.

The Canadian politics requirement will be satisfied by only POL103Y1/214Y1.

First Year:

POL103Y1/105Y1/108Y1

Higher Years:

1. POL200Y1
2. Two full courses from the following: POL201Y1/(203Y1/207Y1)/208Y1/214Y1/215Y1
3. Three additional POL courses

#### **Sociology**

7.5 full courses or equivalent

First Year:

SOC 101Y1

Higher Years:

1. SOC 200HI, 202HI, 203Y1, 204HI, 300HI, 376HI, 377HI, 387HI, 401Y1
2. One of the following: SOC 210Y1/213Y1/220Y1/260Y1/301Y1/306Y1/340Y1/360Y1/369Y1

## **Political Science Courses**

### **SSC199HI/Y1 First Year Seminar**

**52S**

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

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### **PLEASE NOTE:**

**Not all courses are offered every year.**

**Almost all upper-level POL courses have prerequisites. Students without course prerequisites will be removed at any time they are discovered.**

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### **100-Series Courses**

#### **Note:**

**Students may enrol in only one of the following courses: POL103Y, 105Y, 108Y. All 100-series POL courses are mutually exclusive. Students enrolled in more than one of these courses (or completed one of these courses or a previous POL 100-series course with a mark of at least 50%) will be removed at any time they are discovered.**

#### **POL103Y1 Canada in Comparative Perspective 52L, 26T**

This course introduces students to politics using a comparative approach; it examines the variety of political regimes that exist around the world, with particular attention to Canada. Emphasis is placed on how distinctive regimes reflect the different past and present social and economic settings of countries.  
Exclusion: POL100Y, 102Y, 105Y, 108Y, 180H, 181H

#### **POL105Y1 Ethics and the Public Sphere 52L, 26T**

An introduction to fundamental questions about the relation between ethics and politics. Do the constraints of political life entail a different set of ethical standards for individuals and groups than in other domains of life? How do various kinds of ethical issues become political ones? How should ethical disagreements be handled politically?  
Exclusion: POL100Y, 102Y, 103Y, 108Y, 180H, 181H

#### **POL108Y1 Global Networks 52L, 26T**

This course introduces students to the theory and practice of global networks and how networks differ from states and markets. The course begins with an overview of the differences between states, markets and networks in global politics. It then turns to several cases of contemporary networks, including terrorist, civil society, ethnic, and financial networks. The course concludes with an examination of the many challenges of regulating, hacking and holding accountable global networks in the 21st century.  
Exclusion: POL100Y, 102Y, 103Y, 105Y, 180H, 181H, A83H/A84H (UTSC)

# Political Science

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## 200-Series Courses

**POL200YI Political Theory: Visions of the Just/Good Society 52L, 26T**

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.

**POL201YI Politics of Development: Issues and Controversies 52L, 13T**

A survey of the developmental challenges facing societies in Latin America, the Caribbean, Asia and Africa, and the efficacy of various development strategies and policies in meeting these challenges.

Prerequisite: One full POL course/4.0 FCEs in the Faculty of Arts and Science

**POL203YI U.S. Government and Politics 52L, 26T**

An introduction to U.S. government and politics within an analytical framework that helps us understand how institutions structure incentives and decisions in the U.S. system. This class examines the political forces that forged contemporary American institutions to understand how these political institutions continue to provide stability while allowing opportunities for political change. We investigate whether these forces make American institutions different and why. Special attention is paid to current events and contemporary policy dilemmas.

Prerequisite: One full POL course/4.0 FCEs in the Faculty of Arts and Science/ express permission of the instructor.

**POL207YI Politics in Europe (formerly POL302Y) 52L, 26T**

An introduction to comparative politics with a focus on Western Europe: types of democracy, changing economic and social governance, organized interests in Europe, party landscape, social movements. Special attention to Germany, Britain, France, Italy, and the European Union.

Exclusion: POL302Y

Prerequisite: A course in POL/EUR200Y

Recommended preparation: General history of Europe

**POL208YI Introduction to International Relations 52L, 26T**

The course analyzes the impact of the individual, the nation-state, and the international and transnational systems on international conflict and conflict resolution, and examines the major problems the international community confronts in a rapidly changing international environment.

Prerequisite: One full POL course/4.0 FCEs in the Faculty of Arts and Science/express permission of the instructor.

Recommended preparation: Prior reading or study of modern history

**POL214YI Canadian Government and Politics 52L, 26T**

Canada's political system including the Constitution and institutional pillars of governance: cabinet and parliament, federalism, the *Charter of Rights*. Topics include: political parties, the electoral system, policymaking and public administration. Issues include identity, citizenship, ideology and political culture, regionalism, language politics, aboriginals, multiculturalism, gender, media, and interest groups.

Exclusion: POL 100Y, 102Y

Prerequisite: One full POL course/4.0 FCEs in the Faculty of Arts and Science

**POL215YI Politics and Transformation of Asia-Pacific 52L, 26T**

This course provides a comparative analysis of selected countries of East and Southeast Asia, with an emphasis on changing views of citizenship as they have been shaped by political, socio-economic and cultural transformations in the region. The first term deals with the idea of the developmental state, inequality, democratization and nationalism. The second term takes up questions related to governance and corruption, culture, demographic changes and nascent forms of regionalism and globalization.

Prerequisite: One full POL course/4.0 FCEs in the Faculty of Arts and Science

**POL242YI Introduction to Research Methods 52L, 26T**

This course is aimed at helping Political Science students to understand and use the quantitative methods and research designs now widely employed throughout the discipline.

Prerequisite: A course in POL

**POL299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

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## 300-Series Courses

### Note:

**Enrolment in POL 300-series courses is limited. See Registration Handbook and Timetable for details.**

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**POL300HI/YI Topics in Comparative Politics 26L/52L**

An introduction to the field of comparative politics. Content in any given year depends on instructor.

Prerequisite: A course in POL

**JMC301YI State and Society in 20th Century China 52L**

This course explores China's efforts to construct a modern and effective political order in the face of powerful demographic and revolutionary challenges. The clash between competing ideologies, political and social movements and institutional alternatives in the context of rapid social and economic change are analyzed. (Given by the Departments of East Asian Studies and Political Science)

Prerequisite: EAS102Y/HIS280Y/328Y/POL215Y/permission of the instructor

This is a Humanities and Social Science course

**POL301YI Government and Politics in Africa 52L**

The continuing relevance of pre-colonial Africa; the nature and legacy of colonial rule; African nationalism and the consolidation of power in the newly-independent states; government, party and the people; the role of the military; national integration; dependency and neo-colonialism; socialism and development; democracy and human rights.

Prerequisite: A course in POL

**JHP304YI Ukraine: Politics, Economy and Society (formerly JHP 204Y) 52L**

The history of Ukraine from earliest times to the present. Economic, political, and cultural movements; Kievan Rus', Polish-Lithuanian Commonwealth, Cossack state, national revival, twentieth century statehood, and unification. As this course is designed as an introductory course, the professor welcomes first- and second-year students to enroll, as well as upper-level students. (Given by the Departments of History and Political Science)  
Exclusion: JHP204Y

**POL304HI Ethnicity and Politics in Canada (formerly POL304YI) 26L**

Development of political institutions / policies to manage ethnic relations; political strategies and resources available to ethnic and national minorities for achieving goals. Case studies: self-government and First Nations; renewed federalism/sovereignty association and Quebecois; multiculturalism and minority rights.  
Exclusion: POL304Y/SOC210Y  
Prerequisite: POL103Y/214Y

**POL305YI Politics and Society in Latin America 52L**

The colonial heritage, the failure of nation-states to develop as integrated and autonomous power structures, dependent capitalism and political order, contrasting types of domination, rigid monopolization and the flexible use of the state by the ruling sectors, national revolution and the socialist alternative.  
Prerequisite: A course in POL

**POL310YI Managing International Conflict 52L**

Analysis of different aspects of conflict management, including security regimes, U.N. peacekeeping, mediation, bilateral as well as multilateral techniques.  
Prerequisite: POL208Y

**POL311YI Ideas and Ideologies in Canadian Politics 52L**

A study of the ideas that underlie Canadian politics emphasizing the similarities and differences between political parties. The sources and nature of liberalism, conservatism, socialism, nationalism, and multiculturalism in Canada.  
Prerequisite: POL103Y/214Y

**POL312YI Canadian Foreign Policy 52L**

Canada's response to the challenges of globalization and the post-cold war world. The major alternative theoretical approaches, the changing doctrines and patterns of Canadian foreign policy from 1945 to the present, the making of Canadian foreign policy, relations with the United States, within NAFTA, and with other global regions.  
Prerequisite: POL108Y/208Y

**POL313YI Politics and Psychology 52L**

Psychological implications of political theories. Attention to alternative approaches to research and theorizing. The bearing of psychological perspectives on political issues.  
Prerequisite: A course in POL/PSY

**POL314YI Public Opinion and Voting 52L**

The attitudes and behaviour of the mass public in Canada and other western democracies, with emphasis on voting and elections. Themes include the nature of social, psychological,

and economic forces on public opinion and voting, political participation, mass media, public opinion polling, electoral systems, the role of parties, leaders, and issues in elections. Examination of recent national surveys of Canadian electorate.  
Exclusion: POL314H  
Prerequisite: POL103Y/214Y

**POL315HI Sexual Diversity Politics 39L**

An interdisciplinary examination of the development of political visibility by gays, lesbians, bisexuals, and the transgendered in the contemporary period; and an analysis of public policy on and state regulation of sexual diversity in Canada, the U.S., Britain, and other European countries.  
Exclusion: POL315Y  
Prerequisite: UNI255H/256H/one full course on the politics of 20th century Europe, U.S., or Canada/one full course on gender or sexuality/permission of the instructor

**POL316YI Contemporary Canadian Federalism 52L**

Constitutional, political, administrative, and financial aspects of federal-provincial relations, regionalism, and cultural dualism.  
Prerequisite: POL103Y/214Y

**POL317YI Comparative Public Policy: Developing World Perspectives and Global Change 52L**

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: EUR200Y/POL103Y/108Y/203Y/214Y

**POL318HI Canada and the Global Challenge Since 9/11, Part I: NAFTA 26L**

Deals with the political economy of Canada's position in North America. Starting with Harold Innis's theory of staple growth and the debate about the role of foreign investment in its economic (mis)development, we examine how Canada, having long resisted continental economic integration, turned to free trade as a panacea in the 1980s. The course ends with a detailed investigation of NAFTA's significance for Canadian public policy options in the light of the US war on terrorism.  
Exclusion: POL341H (taken in 2007)  
Prerequisite: POL103Y/108Y/214Y  
Recommended preparation: ECO100Y/105Y

**POL319YI American Constitutional Law 52L**

The American Constitution and the Supreme Court's role in its exposition and development. The fundamental principles of the constitution, judicial power, federalism, civil rights, freedom of speech and religion, criminal procedure. Discussion of Supreme Court cases. Comparisons with Canadian constitutional law throughout.  
Prerequisite: POL203Y/a course in American history

**POL320YI Modern Political Thought 52L, 26T**

The development of political thought from the Enlightenment and through the 19th century; implications for political thought in the 20th century. Democratic and anti-democratic tendencies.  
Prerequisite: POL200Y

# Political Science

- POL321HI Ethnic Politics in Comparative Perspective (formerly POL321YI) 26L**  
 Theoretical approaches to ethnic conflict and accommodation. Case studies drawn from: West Europe: conflict (Northern Ireland, Spain), consociation (Switzerland), and treatment of immigrant minorities; Israel and South Africa; East European disintegration: Yugoslavia and Czechoslovakia; collapse of former Soviet Union and conflict / state-building in post-Soviet space.  
 Exclusion: POL321Y  
 Prerequisite: POL103Y/108Y/214Y/EUR200Y
- POL323HI Might and Right Among Nations (formerly POL323YI) 26L**  
 An exploration of the issue of justice among nations. Is such justice genuine or is it largely spurious? What are the prospects for a just international order? Careful examination and thorough discussion of texts by Thucydides, Rousseau, Kant, and other first-rate thinkers on these issues.  
 Exclusion: POL323Y  
 Prerequisite: POL200Y/208Y
- POL324YI European Politics in a Global World 52L**  
 Integration in Europe: examines the forces that have historically divided and united the European continent. Particular attention is paid to the politics of regional disparities, the European Union and its institutions, and the dilemmas of including Europe's peripheries into broader economic and security structures of the continent.  
 Prerequisite: EUR200Y/a course in POL
- POL326YI United States Foreign Policy 52L**  
 The foreign policy of the United States: tradition and context of American decision-making, the process by which it is formulated, application to a number of specific regions and problems in the world.  
 Prerequisite: POL203Y/208Y
- POL330HI Politics and Morality 39L**  
 The relationship between the individual's quest for the good life and the political order. The role of the wise person in civil society. Study of a small number of texts.  
 Exclusion: POL330H/Y  
 Prerequisite: POL200Y
- POL332YI Courts, Law, and Politics in Comparative Perspective 52L**  
 A study of the role, autonomy, and power of courts in countries with different political regimes (USA, France, Russia), and of the problem of legal transition in formerly authoritarian, especially post-communist states.  
 Recommended preparation: A course in politics or history of the USA, Europe, or USSR/Russia or on courts/constitutionalism.
- POL333YI Comparative Provincial Politics 52L**  
 Similarities and differences in provincial political systems. Comparative analysis of provincial societies, cultures, and institutions. Examination of political parties, leaders, elections, voting behaviour, and policy outputs.  
 Prerequisite: POL103Y/214Y
- POL334HI Quebec Politics and Social Change 26L**  
 Study and analysis of the major events and issues in Quebec society and politics. Concentrates on recent years and on the political implications of post-war economic and social change.  
 Exclusion: POL334Y  
 Prerequisite: POL103Y/214Y
- POL335HI Politics and Government of Japan 26L**  
 The course is designed to trace Japan's rise to global prominence in the 20th century. Why has globalization in recent years prompted such extraordinary political and economic difficulties in Japan? The areas of discussion include also social and cultural aspects of modern public life.  
 Exclusion: POL335Y  
 Prerequisite: A course in POL
- POL336HI Ontario Politics 26L**  
 Government and politics in Canada's most populous province. Topics include the historical, socio-economic, and comparative settings of provincial politics. Attention is devoted to institutions, parties and elections, intergovernmental relations and the policy continuities and discontinuities of recent years.  
 Exclusion: POL336Y  
 Prerequisite: POL103Y/214Y
- POL337YI The Canadian Constitution 52L**  
 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 the Charter of Rights and Freedoms; the politics of constitutional change; "differentiated citizenship", "rights talk", and the judicialization of politics.  
 Prerequisite: POL103Y/214Y
- POL340YI International Law 52L**  
 International law as an instrument of conflict resolution. Recognition, sovereign immunity, subjects of international law, jurisdiction.  
 Prerequisite: POL208Y
- POL341HI Canada and the Global Challenge Since 9/11, Part II: The WTO 26L**  
 Political economy of Canada's position in the world trading system. Starting with globalization (understood as the economic and technological forces driving the integration of capital, production, and distribution markets across national borders) and global governance (institutional structures and rules established to manage countries' international economic behaviour), we focus on how, in the new security context of the US war on terrorism, the World Trade Organization affects Canada's capacity to develop policies for cultural, economic and environmental development.  
 Exclusion: POL318H (taken in 2007)  
 Prerequisite: POL103Y/108Y/214Y  
 Recommended preparation: ECO100Y/105Y
- POL342HI Culture and Identity in World Politics 26L**  
 A postpositivist and postmodernist critique of mainstream international relations thinking. In deconstructing prevalent assumptions about world politics as represented primarily by neorealist and neoliberal thought, this course highlights alternative perspectives on the construction and the emancipatory potential of political life.  
 Exclusion: POL342YI  
 Prerequisite: POL208Y
- JPP343YI Women in Western Political Thought 52L**  
 An examination of selected texts in ancient and modern political theory focusing on the conceptual division between private and public spheres of activity and the theorization of sexual difference and sexual equality. Examines contemporary



feminist perspectives in political theory. (Given by the Departments of Philosophy and Political Science)  
Prerequisite: NEW360Y/PHL265H/POL200Y

**POL343YI Politics of Global Governance 52L**

The history and politics of international governance, with particular emphasis on the League of Nations and its 19th century antecedents, the United Nations and the emergence of nongovernmental organizations; informal institutions and structures; and specific issue areas such as development, trade, finance, human rights and the environment.  
Prerequisite: POL208Y

**POL344HI Social Movements in Europe and North America 26L**  
**(formerly POL344YI)**

A comparative examination of the development of a variety of social movements, and their engagement with state institutions. Among the activist movements being examined are those dealing with gender, the environment, and labour.  
Exclusion: POL344Y

Recommended preparation: One full course on 20th century politics or history of Europe, U.S. or Canada/one full course on gender or sexuality

**POL345HI Becoming Israel: War, Peace, and the Politics of Israel's Identity 39L**

An introduction to Israeli politics, society, institutions and political practice from the perspective of the development of Israeli identity (identities). Particular attention will be given to the sources of Israeli identity, to the main players involved in its politics, and to the role of regional war and the peace process in its development and inner conflicts.  
Prerequisite: A course in POL

**POL346HI Environmental Conflict and Security 39L**

The relationship between human-induced environmental stress and national and international security, with a special focus on the likelihood of environmentally related violence in the developing world. Some treatment of the technical aspects of global environmental change.  
Exclusion: POL346Y  
Prerequisite: POL201Y/208Y

**POL347YI Politics and Environment in the North and South 52L**

The comparative politics of the environment. An examination of the environmental movement in northern countries (Canada, United States, Western Europe), and its extension into southern countries (Latin America, Africa and Asia). Analyzes differences in policies and politics between northern and southern regions, and the local effects of globalization.  
Prerequisite: POL103Y/201Y

**POL348YI Comparative Politics in a Global World 52L**

Concepts and theories of comparative politics to understand both developing and advanced industrial states; includes comparative method, modernism/post-modernism, revolution and protest, ethnic conflict and nationalism, democracy, authoritarianism, regime change, political culture, the role of institutions, civil society and corporatism, states and markets.  
Prerequisite: A course in POL; minimum 9 FCEs

**POL349YI Globalization and Urban Politics 52L**

Major cities around the world have become intimately involved in a much more globalized world. The focus of this course is the

political response of Canadian, American and European cities to this major challenge. Throughout the course, we ask what options are open to our cities effectively to operate in this new arena, while retaining their local values and democratic culture.  
Exclusion: POL349HI  
Prerequisite: POL103Y/203Y/214Y

**POL350HI Comparative Health Politics and Policy 26L**

This course explores the historical and current theoretical debates surrounding health policy. In so doing, it offers a framework for examining different health system arrangements, and the politics of health care policymaking, in both the developed and developing world contexts, including cases from North America, Europe, East Asia, Latin America and Africa.  
Prerequisite: 4.0 courses in the Faculty of Arts and Sciences, including at least one full year course in the social sciences (political science, sociology, history, anthropology, etc.)

**POL351YI Gender, Politics, and Public Policy in Comparative Perspective 52L**

An introduction to gender and politics that examines women as political actors and their activities in formal politics. It addresses questions such as does women's under-representation in formal politics matter? What difference do women make when they are elected? The second part explores a number of substantive public policy issues of interest to and that impact women.  
Prerequisite: A course in POL

**POL352HI Inside Canadian Governments: Understanding the Policy Process 26L**

This course could aptly be titled "the guts of government." It explores the institutions and processes that are involved in making public policies, and examines the challenges faced in public sector governance. Topics include new public management, alternative service delivery, and other ideas, institutions, and processes that have emerged to deliver public services.  
Prerequisite: POL103Y/214Y

**POL354YI Politics and Society in Russia 52L**  
**(formerly POL354HI)**

Explores tensions between democracy and authoritarianism after communist rule. Topics include: legacy of Soviet Union; political leadership; presidential power and executive - legislative conflict; federalism; elections and parties; civil society; ethnonationalism; corruption and organized crime.  
Exclusion: POL204Y/354H  
Prerequisite: One full POL course/ 4.0 FCEs in the Faculty of Arts and Science

**POL356YI Canadian Political Parties 52L**

The evolution and setting of Canada's federal and provincial party systems. Topics include historical and theoretical perspectives, ideology, leadership selection, elections, financing, media, and representing interests.  
Exclusion: POL211Y  
Prerequisite: POL103Y/108Y/214Y

**POL357HI Topics in South Asian Politics 26L**  
**(formerly POL357YI)**

Selected issues in South Asian politics. Content in any given year depends on instructor.  
Exclusion: POL357Y  
Prerequisite: POL201Y/ permission of instructor

# Political Science

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**POL358Y1 Post-Colonial Questions: Politics, Knowledge, Power 52L**

This course interrogates the historical trajectories of colonialism and the emergence of the postcolonial condition by asking what is the “post” in post-colonial? What are the relationships between domination, ways of knowing and thinking about self and other, space and bodies? How do forms of violence become legitimated and deployed?

Prerequisite: POL200Y/201Y/NEW150Y/permission of instructor

**POL359Y1 Enlarging Europe: The European Union and Its Applicants 52L**

The course provides an overview of the salient issues in the past enlargement rounds, furnishing the context for the study of current and future integration efforts. Readings will cover the current round of enlargement to the Central and East European countries, efforts related to South-Eastern Europe, as well as Turkey. Issues between the EU and Ukraine and Russia will also be studied, as will the relationship between the Union and its Southern Rim. Security issues related to NATO integration and operations will also be covered.

Prerequisite: EUR200Y/POL103Y/108Y

**POL364H1 Religion and Politics 39L**

A comparative exploration of the political influence of religion in Canada, the United States, with some examples drawn from other regions in the world. Topics will include the political influence of high levels of religiosity, of progressive and traditionalist faith currents, and of organized religious institutions; the implications of religious rights for liberal democratic political practices; and the similarities and differences between Islamic, Christian, and Jewish interventions in western political systems.

Prerequisite: 1 FCE in the politics or history of 20th/21st century Europe, U.S. or Canada; or 1 FCE in religious studies

**POL366Y0 The New Europe: Culture Politics and Society in Central Europe 52L**

This course examines the politics and societies of Central Europe, including Poland, Hungary, Czech Republic, Slovakia, and Austria. It deals with the key issues in the post-communist period including minority-majority relations, the profound social, political and economic changes since the fall of communism, and the “return to Europe”.

**POL367Y0 Australia in Transition 52L**

This course focuses on the dynamic changes that have been taking place in Australia since 1901. It examines Australia’s rich indigenous and non-indigenous history; the complexity and challenges of Australia’s migration and multiculturalism; key issues and practices in contemporary Australian politics; the complex interplay between institutional processes, political interest and the media; and the dynamics of Australia’s engagement with the region and the rest of the world.

**POL370Y1 International Political Economy (formerly POL454Y1) 52L**

Organized around important topics in the study of international political economy. It explores the political underinnings of the global economy and the economic forces reshaping contemporary political environments. Specific policy issues are treated in a context that evaluates the explanatory power of various theoretical approaches.

Exclusion: POL454Y1

Prerequisite: POL108Y/208Y; ECO100Y

**POL371H1 Institutions and the Spatial Construction of the Political Economy 26L**

This course applies a relational perspective of economic action which emphasizes context, path-dependence and contingency. It explores the intentions, opportunities and constraints of economic agency by analyzing the interdependencies between institutions at different levels and industrial organization, interaction, innovation and evolution, thus exploring the spatial construction of the political economy.

Recommended Preparation: ECO100Y/ECO105Y

Prerequisite: POL103Y/108Y/207Y/208Y

**POL380H1/Y1 Topics in International Politics 26L/52L**

Content in any given year depends on instructor.

Prerequisite: POL108Y/208Y

**POL395H1/ 396H1/ 397Y1 Research Participation TBA**

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.

Prerequisite: Available to students in their third year of study (who have completed at least 9 full courses or their equivalent)

Exclusion: POL299Y

**POL398H0/ 399Y0 Independent Experiential Study Project**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

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## 400-Series Courses

### Note

**Enrolment is limited in all Political Science and Joint Political Science 400-series courses. See Registration Handbook and Timetable for details.**

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**POL401H1 Dynamics of the Global Trade System 26S**

This course addresses the global trading system by examining the political, economic, legal, and institutional forces that shape today’s contemporary international system. It focuses particularly on the tension that have been generated between these globalizing technological and economic factors and the continuing efforts to protect national autonomy. At the top of the global trade regime sits the World Trade Organization which has emerged as the adjudicator of global trade law. Canada is equally affected by the North American Free Trade Agreement which, with the WTO, has reconstructed the governance of North America.

Prerequisite: Minimum 14 FCEs

Recommended Preparation: Some international economics and Canadian political economy.

- POL402HI Problems in the Political Thought of the Socratic School (formerly POL402YI) 26S**  
 Study of a small number of texts illuminating the origins and/or legacy of Socratic political philosophy.  
 Exclusion: POL402H/YI  
 Prerequisite: POL320Y/323H/323Y/330H/330Y
- POL403HI Colonialism/Post-Colonialism: The Colonial State and Its Forms of Power 26S**  
 The course examines the late colonial state with examples drawn mostly from South Asia and Africa. The theoretical material used is from the field of colonialism postcolonial studies. Amongst the themes that may be examined are colonial governmentality and the production of identities.  
 Prerequisite: POL358Y/362H+363H (UTM)/permission of instructor
- POL404HI The Problem of Natural Right 26S**  
 A study of selected texts in ancient and/or modern political philosophy that reveal the arguments for and against the idea of natural right.  
 Exclusion: POL404Y  
 Prerequisite: POL320Y/323H/323Y/330H/330Y
- POL405YI Marxism 26L, 26S**  
 A study of Marxism as political economy and philosophy with emphasis upon dialectics. Begins with Aristotle, Smith, Kant, Hegel and Marx. Includes Lenin, Trotsky, Bukharin, Preobrazhensky, Pashukanis, Hilferding, Bernstein, Kautsky, Luxemburg, Korsch, Gramsci, Marcuse, Lukacs, Althusser, Habermas. Theme: relations between science, economics, politics, law and philosophy.  
 Prerequisite: POL320Y
- POL408HI Innovation and Governance 26S**  
 This course explores technological change, its socio-economic consequences, spatial implications and aspects of economic policies. As future growth in the knowledge-based economy will be increasingly associated with new products, services and processes, questions of innovation performance and support policy are decisive at the firm, regional and national levels.  
 Prerequisite: ECO360Y/HPS201H/HPS202H/a POL 200+ comparative industrial course/SOC317Y/SOC356Y
- POL409HI Political Economy of Technology: From the Auto-Industrial to the Information Age 26S**  
 The course explores the centrality of science and technology in political affairs generally and its current significance for public policy in particular. It applies the conceptual tools of political economy to analyze the nature of technological change in industrial democracies. It assesses the social and political consequences of the current wave of technological innovation and alternative responses of industrial democracies. (Offered in alternate years)  
 Prerequisite: CSC300H/ECO360Y/GGR431H/HPS201H/202H/HPS431H/POL 218Y5/a 300 or 400 level course in comparative politics of industrial countries/SOC356Y
- POL410HI/YI Topics in Comparative Politics III 26S/52S**  
 Selected issues in comparative politics. Varies from year to year.  
 Prerequisite: Two POL courses in comparative politics or permission of the instructor
- POL412HI Human Rights, Democracy and International Politics (formerly POL412YI) 26S**  
 Explores human rights with reference to global politics and common ways of thinking about democracy and its limits. Materials to be considered are theoretical, practical, empirical and historical, a number of them from Latin America. The defence and protection of human rights provides the basic reference point.  
 Exclusion: POL412Y  
 Prerequisite: POL201Y/208Y/320Y
- POL413HI Global Environmental Politics 26S**  
 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.  
 Recommended Preparation: A background in international relations and/or international political economy is strongly recommended.  
 Prerequisite: POL 208Y
- POL414HI Identity, Democracy and Autocracy in Ukraine 26S**  
 Enlargement of NATO and the EU into the former communist states of central and eastern Europe. Ukraine and some other post-communist states will be used as case studies to explain why some countries were successful in integration into NATO and the EU and the factors that blocked the integration of other states.
- POL415HI Nationalism, Myth and History: Ukraine and the CIS 26S**  
 The role of nationalism, myths and identity in the transitions within post-communist states. Ukraine and other former Soviet states will be used as case studies to investigate the role of regionalism, nation-building, inter-ethnic relations, historical myths and language in their state building processes.
- POL416YI Politics of the International System 52S**  
 This course explores the nature and evolution of the international system, from both theoretical and historical perspectives. The primary concern of the course is with the maintenance of order in any international system, as it has been created and maintained historically, and how theory suggests it might be attained. We will examine, using contending theoretical perspectives, such questions as how systemic characteristics evolve, what creates equilibrium within a particular system, which forces cause upheaval or destruction, and what impacts such changes have on the units within the system.  
 Prerequisite: POL208Y
- POL417YI The Third World in International Politics 52S**  
 The countries of Africa, Asia, Latin America, and the Middle East; their impact on the international system, and the external and internal factors that influence their international behaviour, with particular focus on civil wars.  
 Prerequisite: POL208Y/a POL course in comparative politics (developing countries)

# Political Science

- POL418YI Politics and Planning in Third World Cities 52S**  
 The social and economic problems faced by large third world cities; relationship between urban politics and the kinds of solutions that are advanced. Settlement issues and low-cost housing policies, unemployment and marginal populations, the dynamics of urban government, and the politics of planning.  
 Prerequisite: POL201Y/301Y/305Y; minimum 14 FCEs
- POL419YI Quantitative Methods and Data Analysis 52S**  
 The use of advanced data analysis techniques in the social sciences, management and analysis of large datasets, techniques of multivariate analysis, problems of causal inference and interpretation of data.  
 Exclusion: POL419H  
 Prerequisite: POL242Y/one course in STA  
 Recommended preparation: basic familiarity with SPSS
- POL420YI Elements of United States Foreign Policy 52S**  
 Seminar on the tradition, process, and implementation of American foreign policy.  
 Prerequisite: POL203Y/208Y
- JPJ421YI Comparative Constitutionalism: Rights and Judicial Review 52S**  
 The seminar explores the global expansion of judicial power through the constitutionalization of rights and the fortification of judicial review. Examination of moral foundations of constitutionalism; comparative analysis of constitutional rights jurisprudence; the politics of constitutional decision-making; and the impact of constitutional jurisprudence on social change.  
 Prerequisite: POL319Y/337Y  
 Recommended preparation: Basic grounding in the political and legal systems of the leading democracies is recommended.
- POL421HI Maimonides and His Modern Interpreters 26S**  
 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.  
 Exclusion: RLG433HI  
 Prerequisite: Minimum 14 FCEs
- POL422YI Topics in Soviet and Post-Soviet Politics 52S**  
 In the first term, we will explore nationalities issues: interpretations of nationalities policies in the Soviet Union; role of ethnonationalism in disintegration of the Soviet state; role of ethnonationalism in state building and interstate relations in the successor states. In the second term, the seminar will explore law and politics in post-Soviet Russia, including courts and judicial reform, constitutional development, business disputes, and corruption.  
 Exclusion: POL422H  
 Prerequisite: HIS351Y/POL204Y/354Y/a course in Russia/Soviet or East European politics
- POL423HI The Politics of Public Sector Budgeting 26S**  
 The course examines public sector budgeting at the federal and provincial levels in Canada. It investigates how economic, political and institutional factors are transformed into budgetary policy especially during times of fiscal constraint. Comparative analysis, budgeting theory, simulations and case studies inform this seminar.  
 Prerequisite: POL214Y
- POL424YI Modes of Political Inquiry 52S**  
 An examination of the competing conceptions of knowledge, "quantitative" and "qualitative," that have shaped the academic study of politics. Methodology from a philosophical standpoint. Topics discussed include objectivity, values, value freedom, scientific explanation, behaviouralism, historicism, interpretation, social constructivism, critical theory, and rational choice.  
 Readings from Mill, Weber, Popper, Strauss, Kuhn, Habermas, Gadamer, and Taylor. Directed especially to 4th year students considering graduate studies in political science.  
 Prerequisite: Two courses in POL
- POL425YI Multiculturalism in Canada 52S**  
 An examination of the basic ideas underlying Canada's multicultural policies, especially as explained by Pierre Elliott Trudeau, and some interpretations of Canadian practice by political theorists, especially Charles Taylor and Will Kymlicka.  
 Exclusion: POL425H  
 Prerequisite: POL311Y/320Y
- POL427YI The Spirit of Democratic Citizenship 52S**  
 This course examines the theoretical presuppositions orienting the construction of the behaviour and skills of democratic citizenship; simultaneously, students consider what is involved. The course consists of three parts: No One Truth, Evoking the Other, and the Spirit of Equality.  
 Exclusion: POL427H  
 Prerequisite: POL103Y/108Y/200Y
- POL428HI Politics in Southeast Asia 26S**  
 Comparative analysis of states and societies in Southeast Asia. Particular focus on democracy, authoritarianism and communism in the region; nationalism, ethnic identity and politics; civil society and economic development.  
 Exclusion: POL428Y  
 Prerequisite: POL201Y/215Y; minimum 9 FCEs
- POL429YI Nationalism, Ethnic Conflict and Democracy 52S**  
 The main theories of ethnic conflict, ethnic violence and nationalism. Focus on the challenges of multiethnic diversity and nationalism for democracy. Origins of nations; construction of ethnic identities; nationalism in the 21st century; causes of ethnic conflict, ethnic riots, and ethnic violence; democracy and ethnic diversity; multinational states and democracy.  
 Exclusion: POL429H  
 Prerequisite: A course in POL; minimum 14 FCEs
- POL430YI Comparative Studies in Jewish and Non-Jewish Political Thought 52S**  
 A comparative examination of major texts of the Jewish tradition, ranging from the Torah to modernity, and texts of the classical or Western traditions raising similar questions. Close reading of a small number of capital works, with special attention to the problem of reason and revelation.  
 Prerequisite: POL200Y, 320Y/323H/323Y/330H/330Y/a relevant course in Jewish studies
- POL431YI Politics and Society in Contemporary China 52S**  
 Issues and themes in China's modernization effort with emphasis on 20th century social, political and economic developments.

Exclusion: POL43IH

Prerequisite: JMC 301Y/POL215Y/EAS102Y/HIS280Y/328Y/  
permission of the instructor

**POL432HI Feminist Theory: Challenges to Legal and Political Thought 26S**

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.

Exclusion: POL432Y

Prerequisite: JPP343Y/POL320Y

**POL433YI Topics in United States Government and Politics 52S**

The objective of the seminar is to investigate the ways in which race, ethnicity, and culture have influenced American politics. Areas and issues including the party system, public policy, the evolution of the Constitution, the definition and negotiation of gender roles and identities, the labour movement, and popular culture, are examined.

Exclusion: POL433H

Prerequisite: A course in POL

Recommended preparation: POL242Y, or a similar course in statistical research methods, or a class in microeconomics or permission of the instructor.

**POL434YI Enlightenment and its Critics 52S**

This course explores, through the writings of its foremost advocates and adversaries, the Enlightenment, the movement to found political life on the principles of scientific reason, universally applicable and accessible to human beings.

Exclusion: POL434H

Prerequisite: POL320Y/330H/330Y

**JHP435YI Linguistic and Cultural Minorities in Europe 52S**

Examines status of minority peoples in Europe, using specific case studies to compare similarities and differences in how these minorities function in states with differing political systems and ideologies. The evolution of specific minorities focuses on questions of language, religion, historical ideology, legal status, assimilation, and political goals. (Given by the Departments of History and Political Science)

Prerequisite: POL103Y/312Y/a course in European history

**POL435HI Political Economy of Asia Pacific 26S**

The course addresses questions regarding the cultural and organizational precedents for and against modern capitalist enterprise in East and Southeast Asia. Special effort given to tracing uneven geographical, gender and class participation in market growth and to the moral and political arguments that have been provoked regarding the consequences of the Asian "economic miracle" and its recent financial crisis.

Exclusion: POL435Y

Prerequisite: POL215Y

**POL436YI Problems of Political Community 52S**

Explores a range of questions about political community in the modern world with attention to the relationship between claims about what political communities ought to be and empirical evidence of actual political arrangements. Focus varies from year to year.

Prerequisite: POL200Y/320Y

**POL438HI/YI Topics in Comparative Politics I 26S/52S**

Selected issues in comparative politics. Varies from year to year.

Prerequisite: Two courses in comparative politics/permission of instructor

**JPD439YI Post-Modern and Contemporary Thought 52S**

The development of post-modern thought, particularly in French social philosophy is examined. Topics such as the nature of exchange, the impact of technology, virtual reality, the digital class are explored. Authors include Jean Baudrillard, Paul Virilio, Gilles Deleuze, Arthur Kroker, Francois Lyotard.

Recommended preparation: POL200Y

**POL439HI The Canadian Welfare State in Comparative Perspective 26S**

This course examines the politics of contemporary social policy in Canada. Particular attention is given to health services, day care, public pensions, income support for the poor and labour market policy. Recent developments are assessed in their historical context and in relation to insights offered by the comparative political economy literature.

Prerequisite: POL103Y/214Y

**JHP440YI Gender & International Relations (formerly HIS440HI) 52S**

The 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; and contributions of feminist theory to international relations theory. (Given by the Departments of History and Political Science)

Exclusion: HIS440H

Prerequisite: HIS103Y/245Y/377Y/POL208Y/permission of instructor

**POL440YI The Politics of Transition in Eastern Europe 52S**

Comparative analysis of the former Communist states of Eastern Europe and the post-Communist successor states. This course also focuses on the dilemmas of transition and the problems of democratic consolidation in the region.

Prerequisite: POL204Y/208Y

**POL441HI Topics in Asian Politics 26S**

Selected issues in Asian politics. Content in any given year depends on instructor.

Prerequisite: POL201Y; minimum 14 FCEs

**POL442HI Topics in Latin American Politics 26S**

This seminar starts with a brief consideration of democratic transitions in Latin America in the last 25 years. It then concentrates on the prospects and challenges of democratic consolidation in the region, while exploring the capacity/potential of institutional reform to address the fault-lines of democracy.

Exclusion: POL442Y

Prerequisite: POL201Y & 305Y; minimum 14 FCEs

**POL443HI/YI Topics in Comparative Politics II 26S/52S**

Selected issues in comparative politics. Varies from year to year.

Prerequisite: Two POL courses in comparative politics or permission of the instructor

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- POL444YI The Political Theory of G.W.F. Hegel 52S**  
An examination of the Phenomenology of Spirit and the Philosophy of Right.  
Prerequisite: POL320Y
- POL446YI 20th-Century Political Thought 52S**  
An examination of the fundamental principles and dynamics of 20th century political ideologies, focusing on the formation of various types of totalitarianism and authoritarian individualism.  
Prerequisite: POL200Y/320Y/a course in PHL
- POL447YI Political Economy of Development 52S**  
This 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.  
Exclusion: JPE400H/Y  
Prerequisite: POL201Y/215Y/301Y/305Y; minimum 14 FCEs  
Recommended preparation: Introductory economics is helpful
- POL448HI Law, Religion and Public Discourse 26S**  
One of the central purposes of the course will be to envision ways in which religious and spiritual beliefs could become respectable dimensions of legal, political, and academic discourse while sustaining a deep respect for pluralism and attending to the dangers that require the separation of church and state.  
Prerequisite: POL320Y or permission of the instructor
- POL449HI Qualitative Methods in Political Research 26S**  
This course surveys qualitative methods used in political science research. After briefly reviewing positivist and interpretivist research traditions, the course covers the ideal-typical and practical use of specific qualitative methods such as fieldwork, interviewing, archival research, focus group research, participant observation, ethnography, counterfactuals, discourse analysis, and multiple-methods approaches.  
Prerequisite: POL242Y; permission of instructor
- POL450HI Women and Politics 26S**  
This course addresses the large and growing comparative literature in two main areas: women's political attitudes and participation. Focusing on West European and U.S. materials, the first half examines "gender gap" differences between women's and men's political beliefs, while the second assesses patterns of involvement in political institutions.  
Exclusion: POL450Y  
Prerequisite: POL315H/315Y/344Y/JPP343Y/permission of the instructor  
Recommended preparation: At least one course in both political behaviour and women's studies
- POL452YI Multilevel Politics: The European Union in Comparative Perspective 52S**  
What is multilevel governance? Sources, structure, actors, processes, challenges. Focus on organizing redistributive policies, participation and accountability. The European Union compared with federal and semi-federal systems (e.g. Canada, U.S.A., Germany) and the European Union compared with regional and global regimes (NAFTA, WTO...)  
Prerequisite: POL207Y/324Y/two FCEs in POL  
Recommended preparation: Introductory textbook on European integration
- POL453YI The Politics of Post-Communism 52S**  
By intensively analyzing the theoretical literature on post-communism we explore the determinants of political and economic change. How did the 28 post-communist countries, having started from basically the same point, end up politically and economically so different?  
Prerequisite: POL207Y/324Y/354Y/HIS344Y/353Y/a course in Soviet, post-Soviet or European politics
- JHP454YI Twentieth Century Ukraine 52S**  
World War I and the Russian Revolution: the Ukrainian independence movement; the Soviet Ukraine and west Ukrainian lands during the interwar period; World War II and the German occupation; the Soviet Ukraine before and after the death of Stalin. Socio-economic, cultural, and political developments. (Given by the Departments of History and Political Science) (Offered every three years)  
Prerequisite: A course in Modern European, East European, or Russian history or politics
- JPF455YI Cities 52L/S**  
Examines disciplinary and developmental boundaries relating to cities. By bringing together a cross-disciplinary faculty who focus on cities within Political Science, History, Philosophy, Literature, Design, Environment and Health, Geography or Social Work, the course explores inter-disciplinary city issues: global change; environment; economic adjustment; state reform and city politics; citizenship; community development; economic development; physical form, territory and political-economy of cities. (Given by the Departments of Literature, Philosophy, Political Science, Urban Studies, Faculty of Social Work and Faculty of Architecture, Landscape and Design)  
Prerequisite: Minimum 14 FCEs/permission of instructor
- POL458HI The Political Economy of International Trade 26S**  
The course explains why countries trade by looking at historical and contemporary trends in international trade. The course places particular emphasis on the interaction between political and economic processes in advancing trade. An important theme throughout the course is how the distribution of gains is connected to system stability.  
Exclusion: POLC95H3 (UTSC)  
Prerequisite: ECO100Y and POL208Y and HIS344Y or permission of instructor
- POL459YI The Military Instrument of Foreign Policy 52S**  
The relationship of military force to politics: Nuclear war and deterrence, conventional war, revolutionary war, terrorism and counter-insurgency are examined from the perspectives of the U.S., Russia and other contemporary military powers.  
Prerequisite: POL208Y
- JUP460HI/YI Contemporary Issues in Peace and Conflict 26S/52S**  
A colloquium (fall term) and research seminar (spring term, JUP460Y only) on security ontology and various meanings of security. Topics to be considered include planetary, ecospheric, state, societal, and human security. (Offered by the Department of Political Science and University College)  
Exclusion: Students are not allowed to take both H and Y courses  
Prerequisite: POL208Y and UNI360Y/permission of the instructor

- POL460HI Studies in Modern Political Theory 26S**  
 Studies on a modern political thinker or thinkers since Machiavelli.  
 Exclusion: POL460Y  
 Prerequisite: POL320Y/323H/323Y/330H/330Y
- POL462YI Comparative Political Parties and Elections 52S**  
 Political parties and party systems in Canada, United States and selected European countries. Electoral systems, problems of representation, voting and elections and processes of political change in western democracies.  
 Exclusion: POL462H  
 Prerequisite: POL103Y/207Y/356Y
- POL463YI The Political Philosophy of Political Economy 26L,26S**  
 Lectures relate economic organization to philosophical interpretations of community and citizenship. Philosophers include Plato, Aristotle, Calvin, Smith, Kant, Hegel, Marx, Habermas, Rawls and Hayek. Seminars interpret critical moments of 20th century economic history from the standpoint of philosophy. Does philosophy clarify or obscure the meaning of economic history?  
 Exclusion: POL478Y5  
 Prerequisite: POL320Y/ECO302Y/ECO342Y  
 Recommended preparation: POL320Y/a course in 20th century economic history
- POL464HI G8 and Global Governance I 26S**  
 In the post-cold war, globalizing international system, the institutions of the G8 are emerging as an effective centre of global governance. Alternative conceptions of global governance and theories of international cooperation are used to explain G8 performance. National approaches to G8 diplomacy are assessed.  
 Prerequisite: POL108Y/208Y  
 Recommended preparation: POL312Y/324Y/326Y/341H/342H/342Y/343Y
- POL465HI G8 and Global Governance II 26S**  
 The performance of the G8 and other international institutions in securing cooperation and compliance, and shaping international order in major contemporary issues of political economy (finance, trade, employment, development), security (arms control, regional security, democracy and human rights) and transnational global issues (environmental protection, drugs, crime, infectious disease).  
 Prerequisite: POL108Y/208Y  
 Recommended preparation: POL312Y/324Y/326Y/341H/342H/342Y/343Y
- POL466HI Topics in International Politics III 26S**  
 For advanced students of international relations. Various topics are taken up each year, the content of which depends on the instructor.  
 Prerequisite: POL208Y
- POL468HI Conflict and Conflict Management 26S**  
 This seminar examines the source of conflict and various methods of conflict management. It focuses on organized conflict, and the manner in which such conflicts appear in character or scope in the contemporary international system.  
 Prerequisite: Minimum 14 FCEs  
 Recommended preparation: POL208Y
- POL469HI Ethics and International Relations 26S**  
 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: POL208Y
- POL470YI Contemporary Issues in Foreign Policy 52S**  
 This senior 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: POL208Y
- JPJ471HI Constitutional Politics 26S**  
 Explores fundamental issues in the design and amendment of constitutions, with particular reference to divided societies such as Canada, Belgium, Spain and South Africa. Includes both the processes and outcomes of constitutional politics, and their implications for conflict management, democracy, and effective governance. (Given by the Faculty of Law and the Department of Political Science)  
 Exclusion: POL471H  
 Prerequisite: Two 200+ courses in comparative or Canadian politics
- POL471HI The Political Thought of George Grant 26S**  
 George Grant's political, philosophical, and religious thought as found in his six short books and some supplementary readings. Liberalism, modernity, and technology from the stand point of political philosophy and Christian revelation.  
 Recommended Preparation: POL 200Y and 320Y  
 Prerequisite: POL 200Y/320Y
- POL472HI The Comparative Political Economy of Industrial Societies 26S**  
 Topics discussed in this seminar course will include the historical origins of advanced capitalist political economies, the 'Varieties of Capitalism' debate, current trajectories of different political economies, labour politics and regulation, the politics of macro-economic policy, the political economy of growth, and Canada's political economy.  
 Prerequisite: POL 103Y/108Y/207Y
- POL474HI Politics and Policy Analysis 26S**  
 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

# Political Science

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public policy-making are successively applied to analysis of cases of Canadian and comparative policy development.

Prerequisite: POL103Y/214Y/317Y/352H

## **POL475HI Experiencing Public Policy-Making 26S**

Examines how policies are developed and implemented, and seeks to improve students' analytic, writing and presentational skills. Through readings and role-playing sessions, exposes students to key challenges confronting policy-makers: preparing for government transitions, undertaking environmental scanning and scenario planning, evaluating alternative instruments for delivery programs, establishing consultation processes, restructuring government bureaucracies, and ensuring accountability.

Prerequisite: POL103Y/214Y; one POL 300-level course in Canadian politics

## **POL476HI The Developmental State: Comparative and Historical Perspectives 26S**

This seminar course explores the concept of the developmental state both comparatively and historically. In the postwar period, the East Asian 'tigers' economically developed rapidly, leading many to suggest that there is a distinctive Asian model of state-led development. This course questions this assertion. The first section unpacks the East Asian developmental state model. The rest of the course explores this model in other comparative and historical contexts. Students will read the 'classics' in political economy, examining the role of the state in economic transformation in 17th C. Netherlands, the English Industrial Revolution, 19th C Russia and Germany, turn of the century America and the East Asian tigers.

Prerequisite: POL201Y/208Y; minimum 14 FCEs

## **POL477HI Advanced Topics in International Political Economy 26S**

This 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.

Exclusion: POL454Y

Prerequisite: POL208Y; ECO100Y

## **POL479HI Topics in Middle East Politics 26S**

This course examines the contemporary politics of the Middle East and North Africa. It seeks to examine the relative importance of political, socio-economic and ideological factors in the context of such issues as the resilience of authoritarianism, the rise of civil society, and the resurgence of Islamic activism. Theoretical discussion is followed by case studies.

Prerequisite: POL201Y/NMC217Y; minimum 14 FCEs

## **POL480HI Pluralism, Justice, and Equality 26S**

Historically, liberalism has coped with the fact of social difference through doctrines of colour - or difference - blindness. Recent feminist and other critics of liberalism have argued that liberal conceptions of justice and impartiality fail to treat members of marginalized groups as equals. This course explores both sides of these debates.

Exclusion: POL480Y

Prerequisite: POL200Y/320Y/JPP343Y

## **POL484HI/YI Topics in Political Thought I 26S/52S**

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: POL320Y/permission of instructor

## **POL485HI/YI Topics in Political Thought II 26S/52S**

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: POL320Y/permission of instructor

## **POL486HI/YI Topics in International Politics I 26S/52S**

For advanced students of international relations. Various topics are taken up each year, the content of which depends on the instructor.

Prerequisite: POL208Y

## **POL487HI/YI Topics in International Politics II 26S/52S**

For advanced students of international relations. Various topics are taken up each year, the content of which depends on the instructor.

Prerequisite: POL208Y

## **POL488HI/YI Topics in African Politics I 26S/52S**

In depth examination of specific themes relating to contemporary African politics. Content in any given year depends on instructor.

Prerequisite: HIS395Y/POL201Y/301Y; minimum 14 FCEs

## **POL489HI/YI Topics in African Politics II 26S/52S**

In depth examination of specific themes relating to contemporary African politics. Content in any given year depends on instructor.

Prerequisite: HIS395Y/POL201Y/301Y; minimum 14 FCEs

## **POL490HI/YI Topics in Canadian Politics I 26S/52S**

Examines in depth enduring and emerging issues in Canadian politics. Content in any given year depends on instructor.

Prerequisite: POL103Y/214Y, one other POL course in Canadian politics or permission of instructor

## **POL491HI/YI Topics in Canadian Politics II 26S/52S**

Examines in depth enduring and emerging issues in Canadian politics. Content in any given year depends on instructor.

Prerequisite: POL103Y/214Y, one other POL course in Canadian politics or permission of instructor

## **POL492HI/YI Topics in Comparative Politics IV 26S/52S**

Selected issues in comparative politics. Varies from year to year. Prerequisite: Two POL courses in comparative politics or permission of the instructor

## **JPJ494HI Innovation and Knowledge Transfer in City Regions 26S**

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)

Exclusion: LAW 453HS

Prerequisite: CSC300H/ECO360Y/GGR431H/202H/HPS431H/POL218Y5/ a 300 or 400 level course in comparative politics (industrial countries)/POL409H/SOC356Y



**POL495YI Independent Studies TBA**

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.

Exclusion: POL496H/497H

**POL496HI/ Independent Studies TBA  
497HI**

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.

Exclusion: POL495Y

**POL498HI/YI Intensive Course TBA**

Content in any given year depends on instructor. Intensive courses are offered by distinguished visitors from around the world. Students in their 4<sup>th</sup> 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.

**POL499YI Senior Thesis and Thesis Seminar TBA**

A 40 to 60 page (15,000 to 20,000 word) research paper (75% of final mark) written under the supervision of one 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.

Exclusion: POL 495/496/497 (taken in the same year)

Prerequisite: 4th year status in Specialist or Joint Specialist programs in Political Science; 3.0 GPA in Political Science courses; supervisor's approval; an approved thesis proposal.

# Portuguese

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## Given by Members of the Department of Spanish and Portuguese

### Faculty

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#### Professors Emeriti

J.R. Webster, MA, Ph D, FRSC

#### Associate Professor and Chair of the Department

S.J. Rupp, MA, M Phil, Ph D (V)

#### Professor

R. Sternberg, MA, Ph D (SM)

#### Associate Professor

J.Blackmore, MA, Ph D (V)

#### Senior Lecturer and Associate Chair

M. Marujo, MA, Ph D

#### Lecturer

J.Pedro Ferreira\*

\*Visiting

Portuguese is spoken by more than one hundred and seventy million people on four continents: Europe, Africa, Asia, and America. Twenty percent of all residents of the Western Hemisphere are Brazilians, who attest to the truth that one out of every five Americans - North, Central, South - speaks Portuguese as his or her native language.

The literature of Portugal has a tradition that goes back as far as the twelfth century, and the country's discoveries in the Renaissance led it to all corners of the globe. In the last two decades Portugal has given to Canada many thousands of new citizens, and Brazil is attracting the attention of Canadians through its vast potential as a land of culture, of natural resources, and of industry.

In addition to a full range of courses in language, Portuguese studies at the University of Toronto are concerned with the major trends and issues of Luso-Brazilian literature and culture and serve the programs in Latin-American Studies, European Studies and in African Studies.

The Department encourages students to consider completing part of their course work at a university in Portugal or Brazil.

Undergraduate Coordinator: Professor R. Sarabia (416-813-4082). E-mail: spanport.undergraduate@utoronto.ca

Enquiries: Victoria College, Room 208 (416-813-4080)

## Portuguese Programs

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Enrolment in the Portuguese programs requires the completion of four degree courses; no minimum GPA required.

### Portuguese (Arts program)

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Consult Professor R. Sarabia, Department of Spanish and Portuguese.

#### Specialist program:

(9 full courses or their equivalent, including at least one 400-series course)

First Year:

PRT 100Y1/110Y1/220Y1

Second Year:

1. PRT 220Y1/320Y1

2. PRT 258H1

Third and Fourth Years:

1. PRT 320Y1

2. At least one of PRT 420Y1, 423Y1

3. Plus additional PRT courses to make nine courses. Up to two full-course equivalents may be taken from cognate departmental or college offerings: GGR, HIS, LAS, POL, SPA. A complete list of eligible courses is available from the Undergraduate Coordinator.

#### Major program:

(7 full courses or their equivalent)

First Year:

PRT 100Y1/110Y1/220Y1

Second Year:

1. PRT 220Y1/320Y1

2. PRT 258H1

Third and Fourth Years:

1. PRT 320Y1

2. At least one of PRT 420Y1, 423Y1 is recommended for students who start in PRT 100Y1. At least one of PRT 420Y1, 423Y1 is required for students who start in PRT 220Y1 or higher language course.

3. Plus additional PRT courses to make seven courses. Up to one full-course equivalent may be taken from cognate departmental or college offerings: GGR, HIS, LAS, POL, SPA. A complete list of eligible courses is available from the Undergraduate Coordinator.

#### Minor program:

4 full courses or their equivalent including at least one course at the 300+ level.

### Portuguese: see also European Studies; Latin American Studies; Modern Languages and Literatures; Linguistics and Languages

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## Portuguese Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), PRT courses are classified as HUMANITIES courses.

#### HUM 199Y1 First Year Seminar

52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly

admitted first year students. It may serve as a distribution requirement course; see page 47.

## Note

The Department reserves the right to place students in the language course best suited to their linguistic preparation.

### **PRT100YI     Beginners Portuguese                    52L, 26P**

An introduction to the main elements of the language with emphasis on oral and written practice. (May not be taken by students who, in the judgement of the Department, qualify for entry into PRT110YI)

Exclusion: OAC Portuguese or equivalent

### **PRT110YI     Elementary Portuguese                    52L, 26P**

An introduction to Portuguese for students who speak or understand Portuguese but have not formally studied it. (May not be taken by students who, in the judgement of the Department, qualify for entry into PRT220YI)

Exclusion: OAC Portuguese or equivalent

Prerequisite: A familiarity with Portuguese

### **PRT217HI     Language Practice                                    26L**

**Communication practice in small groups, with an emphasis on skills in speaking, listening, and reading. Selective review of grammatical structures and active vocabulary, with readings from Portuguese authors.**

**Prerequisite: PRT100YI/110Y or permission of the Department**

### **PRT220YI     Intermediate Portuguese                    52L**

Students enlarge their vocabulary and improve their oral and writing skills through reading, composition and translation.

Prerequisite: OAC Portuguese or equivalent/PRT100YI/110YI

### **PRT250HI     Portuguese Culture & Civilization            26L**

A survey of historical and cultural trends in Portugal from the Middle Ages to the present. Art and music are studied in addition to historical/cultural movements to gain a perspective of the uniqueness of Portugal both within Iberia and in Europe in general. (Offered in alternate years)

### **PRT252HI     Portuguese Island Culture                    26L**

Study of Portuguese literature, art, and culture in the context of colonization and immigration, with a specific emphasis on the islands of the Portuguese Atlantic. Readings in the cultural heritage of island settlements, and in diasporic movements to other countries. (Offered in alternate years)

### **PRT255HI     The Brazilian Puzzle: Culture and Identity            26L**

Taught in English, this course examines the historical and cultural contexts of Brazilian identity. The impact of colonial history on issues such as race, religion and regionalism is explored. The course focuses on the 19th and 20th Centuries: Positivism, Modernism, the Anthropophagous Movement, music and Cinema Novo are discussed. (Offered in alternate years)

### **PRT258HI     Introduction to Luso-Brazilian Studies            26L** **(formerly PRT258YI)**

The introductory study of literary texts and consideration of the various ways authors express and situate themselves in culture. Semiotics, gender, the literary canon, advertising, the nature of literary language, and cinema.

Exclusion: PRT258YI

Co-requisite: PRT220YI

### **PRT299YI     Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

### **PRT320YI     Composition and Oral Practice            52L**

Intensive practice in written and oral Portuguese for the advanced student. Reading and discussion of contemporary literature.

Prerequisite: PRT220YI

### **PRT342HI     Machado de Assis: The Creation of the Modern Self    26L** **(formerly PRT455YI)**

Beginning with *Memorias Postumas de Bras Cubas*, Machado de Assis developed the art of creating characters who prefigure the 20th century self: contradictory, often delusional. His novels destroy whatever certainties the late 19th century offered.

The course examines the transformation of Machado through readings of his novels. (Readings in English)

Exclusion: PRT 455YI

### **PRT351HI     Discovery and Conquest: Literature and Nationhood    26L** **(formerly PRT351YI)**

A study of the driving ideologies behind the "Age of Discoveries." Close scrutiny of key texts reveals how the ideas of displacement, sex, violence, gender, and colonization play crucial roles in the establishment and maintenance of nationhood and nationality in Renaissance Portugal. (Offered in alternate years)

Exclusion: PRT351YI

Prerequisite: PRT210YI/220YI, 258HI

### **PRT355HI     Topics in Brazilian Studies                    26L**

In years when this course is offered, topics are described in the departmental brochure.

Prerequisite: PRT258HI

### **PRT357HI     Modern and Contemporary Brazilian Literature            52L** **(formerly PRT457YI)**

Focus on modern and contemporary Brazilian literature and its social contexts, and examination of the relationship between literary movements and Brazilian cinema, music and art.

(Offered in alternate years)

Exclusion: PRT457YI

Prerequisite: PRT220YI, 258HI

### **PRT358HI     Topics in Portuguese Studies                    26L**

In years when this course is offered, topics are described in detail in the departmental brochure.

Prerequisite: PRT220YI, 258HI

# Portuguese

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**PRT359HI From Pessoa to Saramago 52L**  
**(formerly PRT456YI)**

An examination of Portuguese literature as it confronts the changing social, political, and aesthetic currents of the twentieth century. The Orpheu movement of Fernando and Sa-Carneiro, Presenca and Neo-Realism as well as contemporary authors such as Lydia Jorge and Jose Saramago are studied. (Offered in alternate years)

Exclusion: PRT456YI

Prerequisite: PRT220YI, 258HI

**PRT365HI The Rise of Modern Identity 52L**

Studies Portuguese and Brazilian Romanticism tracing the development of a new sense of personal and national identity in those countries as reflected in novels, poems and essays.

(Offered in alternate years)

Prerequisite: PRT258H or permission of instructor

**PRT398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**PRT420YI Advanced Portuguese 52L**

A study of the more advanced areas of Portuguese grammar and language use. Discussion of issues relating to syntax, vocabulary and style as they arise in essays and readings of literary texts. The expressive resources of the language.

Introduction to the stylistic analysis of literary texts. Intensive written and oral practice. (Offered in alternate years)

Prerequisite: PRT320YI

**PRT423YI Translation 52L**

The syntax and expressive resources of Portuguese and English.

Written and oral translation of literary, technical and commercial texts. (Offered in alternate years)

Prerequisite: PRT320YI

**PRT442HI Eça de Queiroz: Portugal in 26L**  
**the Crosshairs**

Whether writing about the adulterous and incestuous relationship between cousins, or the downfall of a great family, or later the transformation of a Parisian dandy into a robust Portuguese countryman, Eça had one great subject: Portugal. The course examines the shifting perspective of the country through close readings of novels.

Prerequisite: PRT 220YI, PRT 258HI

Exclusion: PRT 356YI and PRT455YI

**PRT452HI Camões 26L**  
**(formerly PRT352H)**

A study of the works of Camões, including the entirety of Os Lusíadas, and a substantial portion of the lyrics and theatre.

(Offered in alternate years)

Exclusion: PRT352H

Prerequisite: PRT220YI, 258HI

**PRT454YI The Luso-Brazilian Novel 52L**

Fiction in Portugal and Brazil from the 19th century to the present. Naturalism, realism, the experimental novels of the 1920's, the novel of social protest. (Offered in alternate years)

Prerequisite: PRT220YI, 258HI

**PRT458HI The Luso-Brazilian Short Story 26S**

The development of the Luso-Brazilian short story. Examination of theories of the genre as they relate to short stories of Machado de Assis, Eça de Queiroz, Graciliano Ramos, João Guimarães Rosa, Clarice Lispector and Miguel Torga. (Offered in alternate years)

Prerequisite: PRT220YI, 258HI

**PRT490HI Independent Study TBA**

Individual study with a member of staff on a topic of common interest including readings, discussion and written assignments.

Prerequisite: PRT320YI and written approval of the

Undergraduate Coordinator

**Psychology: see Life Sciences:  
Psychology**

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## Faculty

### Professors Emeriti

A.T. Davies, BA, BD, STM, Ph D (V)  
L.S. Dewart, MA, Ph D (SM)  
C.T. McIntire, MA, M Div, Ph D (V)  
H.J. McSorley, MA, D Th (SM)  
J.E. McWilliam, MA, Ph D (T)  
G.A. Nicholson, MA, Ph D (T)  
J.T. O'Connell, AB, Ph D (SM)  
G.P. Richardson, B Arch, BD, Ph D, FRSC, FRAIC (U)  
R.M. Savory, MA, Ph D, FRSC (T)  
J.M. Vertin, MA, STL, Ph D (SM)  
G.A.B. Watson, MA, STB (T)

### Associate Professor and Chair of the Department

J.J. DiCenso, MA, Ph D (T)

### Professor and Associate Chair

J.S. Kloppenborg, MA, Ph D (T)

### Professors

D. Novak, MHL, Ph D (U)  
L.E. Schmidt, MA, Ph D (SM)  
R.E. Sinkewicz, AM, M Div, D Phil (CMS)

### Associate Professors

J. Bryant, MA, Ph D (SM)  
H. Fox, MS, MA, Ph D (U)  
G. Gillison, Ph D (T)  
K. H. Green, MA, Ph D (U)  
P. Klassen, MA, Ph D (V)  
J. Newman, MAR, Ph D (V)  
S. Scharper, MA, Ph D (UTM)

### Assistant Professors

J. Ahn, MA  
A. Dhand MA, Ph D (V)  
C. Emmrich, MA, Ph D (UTM)  
F. Garrett MA, PhD  
A. Goodman, MA  
J. Marshall, MA, Ph D (U)  
A. Mittermaier, PhD  
A. Rao, MA, Ph D (UTM)  
W. Saleh, MA, Ph D  
S. Virani, MA, Ph D (UTM)

As an intellectual inquiry into an important dimension of human experience, the exploration of religion is intrinsically valuable and constitutes a rich resource for reflection on meaning in life and on personal growth. It also prepares students for a wide range of careers (e.g. social work, law, politics from the local to the international level, teaching, medicine, leadership in religious organizations). The academic study of religion, combined with appropriate language preparation, can also open out into graduate work leading to the M.A. and Ph.D. in the growing number of universities offering advanced graduate degrees in the field, and in the University's own Graduate Centre.

Historically, the academic study of religion has taken a variety of forms, each with its own rationale. The Department identifies itself with a model in which the major religious traditions (e.g.

Buddhism, Christianity, Hinduism, Islam, Judaism) are studied within a comparative frame. We employ and encourage a variety of approaches (e.g. historical, textual, social scientific) without sacrificing specialized skills and training. The diversity which characterizes this model is reflected in the variety of courses offered or cross-listed by the Department, and by the wide range of training and expertise of our faculty.

Programs are described in detail in the Departmental Handbook; it also includes a limited number of cross-listed courses offered by Colleges or departments such as East Asian Studies, History, Near and Middle Eastern Civilizations, Philosophy, and Sociology. Students aiming to complete any RLG program should consult the Undergraduate Administrator at least once a year for assistance in selecting courses that address the student's interests and fulfill the program's requirements.

Undergraduate Administrator: 123 St. George Street, 2nd Floor (416-978-2395)

Enquiries: 123 St. George Street, 1st Floor (416-978-2395)

## Religion Programs

Enrolment in Religion programs requires completion of four courses; no minimum GPA required.

### Religion (Arts program)

#### Specialist program:

(10 full courses or their equivalent)

1. RLG 100Y1/280Y1
2. RLG 200Y1/210Y1/211Y1/212Y1/SOC250Y1
3. Four 300+ series courses, including at least one at the 400-level
4. Four other courses
5. Course selection must ensure that more than one religious tradition is studied (RLG100Y1/280Y1 does not fulfill this requirement); it must also ensure depth of study and focus in one area or stream of specialization
6. Two cross-listed courses may be counted (consult the Departmental Handbook for a list of eligible courses)
7. Besides any cross-listed courses, two courses in a single language other than English may be substituted for one 200-series RLG course

#### Major program:

(6 full courses or their equivalent)

1. RLG 100Y1/280Y1
2. One course from: RLG 200Y1-209H1, 242H5, 272H5, 273H5 or 274H1-275H1
3. Two full 300+ series courses
4. Two other courses
5. One cross-listed course may be counted (consult the Departmental Handbook for a list of eligible courses)

#### Minor program:

(4 full courses or their equivalent)

1. RLG 100Y1/200Y1/280Y1
2. One 300+ series RLG course
3. Two other courses
4. No cross-listed courses may be counted

# Religion

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## Religion: Christian Origins (Arts program)

Consult John Kloppenborg, Department for the Study of Religion

### Specialist program:

(11 full courses or their equivalent with four courses at the 300+level, including one course at the 400-level)

1. RLG 100Y1/280Y1
2. RLG 241Y1
3. RLG203Y1/RLG331Y1
4. Two full courses in Greek, normally fulfilled by GRK 100Y1 or GRK 102HI+200HI, and GRK 201HI and GRK 202HI, (Note: Upon approval of the program coordinator, students may be permitted to substitute for these courses two full courses in another ancient language, e.g., Coptic, Syriac, Aramaic.)
5. Six 300+ half-courses (at least one must be from the 400-level) chosen from RLG 319HI, 320HI, 321HI, 322HI, 323HI, 324HI, 325HI, 326HI, 327HI, 448HI, 449HI, 451HI, 452HI, 453HI, 454HI, 455HI, 458HI.
6. Four half courses or the equivalent chosen from CLA 204HI, 230HI, 231HI, 232HI, 233HI, 305HI, 364HI, 368HI, 369HI, 370HI, 378HI, NMC 257H, 270Y1, 281 (formerly 252HI), 324HI, 329HI, 350H, 370Y, 380Y, FAH 300HI, 305H, 309HI, 312H, 418HI, 424HI.
7. One full course in another religious tradition, preferably an Eastern tradition such Hinduism or Buddhism.

## Buddhist Studies (Arts program)

### Specialist Program

(10 full courses or their equivalent including at least one 400-series full course or equivalent)

1. RLG100Y1/280Y1
2. RLG 206Y1
3. Two (2) consecutive (FCE) language courses in one of: Chinese, Japanese, Korean, Sanskrit or Tibetan.
4. Either one full RLG course in Judaism, Christianity or Islam, or one of: RLG 210Y1, 211Y1, 212Y1.
5. A total of FIVE FCE chosen from the following list. At least three FCEs must be taken at the 300 level or higher, including at least 1 FCE at the 400 level: (second year courses): RLG205Y1, RLG236HI, RLG274HI, RLG275HI, EAS269Y1, HIS280Y1, HIS281Y1, HIS283Y1, NEW214Y1, PHL237HI; (third year courses): RLG361HI, RLG363HI, RLG366HI, RLG371HI, RLG372HI, RLG376HI, RLG375HI, EAS331Y1, EAS 368Y1, EAS369Y1, EAS389Y1, HIS380Y1, HIS381Y1, PHL337HI; (fourth year courses): RLG464HI, RLG466HI, RLG 490Y1 (on a topic in Buddhism), EAS468Y1, EAS 469Y1, NEW402Y1.

### Major program:

(7 full courses or their equivalent with at least two courses at the 300+level).

1. RLG100Y1/280Y1
2. RLG 206Y1
3. Five full courses or their equivalent chosen from the following list. At least two FCEs must be at the 300 level or higher: (second year courses): RLG205Y1, RLG236HI, RLG274HI, RLG275HI, EAS269Y1, HIS280Y1, HIS281Y1, HIS283Y1, NEW214Y1, PHL237HI; (third year courses): RLG361HI, RLG363HI, RLG366HI, RLG371HI, RLG372HI, RLG376HI, RLG375HI, EAS331Y1, EAS 368Y1,

EAS369Y1, EAS389Y1, HIS380Y1, HIS381Y1, PHL337HI; (fourth year courses): RLG464HI, RLG466HI, RLG 490Y1 (on a topic in Buddhism), EAS468Y1, EAS 469Y1, NEW402Y1.

## Religion and Philosophy: see Philosophy

## Religion Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all RLG courses are classified as HUMANITIES courses except RLG 210Y1, 211Y1, 212Y1, 301HI, 302HI, 304HI, 307HI, 314HI, 315HI, 316HI, 353HI, 354HI, 355HI, 386Y1, and 459HI, which are SOCIAL SCIENCE courses.

**HUM199HI/Y1 First Year Seminar 52S**  
Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

**RLG100Y1 World Religions 52L, 26T**  
An introductory study of the ideas, attitudes, practices, and contemporary situation of the Judaic, Christian, Muslim, Hindu, Buddhist, Confucian, Taoist, and Shinto religious traditions. Exclusion: RLG280Y1; HUM B03H3, HUM B04H3. Note: HUM B03H3 and HUM B04H3 taken together are equivalent to RLG 100Y1

## 200-Series Courses

### Note

No 200-series course has a 100-series RLG course prerequisite or co-requisite.

**RLG200Y1 The Phenomenon of Religion 52L, 26T (formerly RLG101Y1)**

Theories about the variety and nature of religious experience, personal and collective, including historiographic, psychological, sociological, anthropological, philosophical analyses of religion. How religious life is expressed in such forms as myth, narrative and ritual, systems of belief and value, morality and social institutions.

Exclusion: RLG101Y1, 101H5

**RLG201Y1 Aboriginal Religion 52L, 26T**

A survey of spirits, indigenous rites, stories, visions, shamanic and healing practices. Canadian First Nations' and Metis' experiences placed in cross-cultural perspective First Nations' and Metis' spiritualities studied academically in the history of religions, anthropology, and stories.

Recommended Preparation: RLG 100Y1/200Y1/280Y1

**RLG202Y1 The Jewish Religious Tradition 52L, 26T**

An introduction to the religious tradition of the Jews, from its ancient roots to its modern crises. Focus on great ideas, thinkers, books, movements, sects, and events in the historical development of Judaism through its four main periods - biblical, rabbinic, medieval, and modern.

Recommended Preparation: RLG 100Y1/200Y1/280Y1

Exclusion: RLG 202H5

**RLG203YI The Christian Religious Tradition 52L, 26T**

An introduction to the Christian religious tradition as it has developed from the 1st century C.E. to the present and has been expressed in teachings, institutions, social attitudes, and the arts.

Recommended Preparation: RLG 100YI/200YI/280YI

Exclusion: RLG 203H5

**RLG204YI The Islamic Religious Tradition 52L, 26T**

The faith and practice of Islam: historical emergence, doctrinal development, and interaction with various world cultures. Note: this course is offered alternatively with NMC 185HI, to which is it equivalent.

Exclusion: NMC185YI, NMC185HI, RLG 204H5

Recommended Preparation: RLG 100YI/200YI/280YI

**RLG205YI The Hindu Religious Tradition 52L, 26T**

A historical and thematic introduction to the Hindu religious tradition as embedded in the socio-cultural structures of India.

Recommended Preparation: RLG 100YI/200YI/280YI

Exclusion: RLG 205H5

**RLG206YI The Buddhist Religious Tradition 52L, 26T**

The teachings of the Buddha and the development, spread, and diversification of the Buddhist tradition from southern to northeastern Asia.

Recommended Preparation: RLG 100YI/200YI/280YI

Exclusion: RLG 206H5

**RLG210YI Introduction to the Sociology of Religion 52L, 26T**

Religion from the sociological viewpoint; religion as the source of meaning, community and power; conversion and commitment; religious organization, movements, and authority; the relation of religion to the individual, sexuality and gender; conflict and change; religion and secularization. Emphasis on classical thinkers (Durkheim, Marx, Weber) and contemporary applications. Note: This course is equivalent to SOC 250YI.

Exclusion: SOC 250YI

This is a Social Science course

**RLG211YI Introduction to the Psychology of Religion 52L, 26T**

A survey of the psychological approaches to aspects of religion such as religious experience, doctrine, myth and symbols, ethics and human transformation. Attention will be given to phenomenological, psychoanalytic, Jungian, existentialist, and feminist approaches.

This is a Social Science course

**RLG212YI Introduction to the Anthropology of Religion 52L, 26T**

Anthropological study of the supernatural in small-scale non-literate societies. A cross-cultural examination of systems of belief and ritual focusing on the relationship between spiritual beings and the cosmos as well as the rights and obligations which arise therefrom. Among the topics covered are: myth and ritual; shamanism and healing; magic, witchcraft and sorcery; divination; ancestor worship.

This is a Social Science course

**RLG220HI Philosophical Responses to the Holocaust 26L, 13T**

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.

**RLG221HI Religious Ethics: The Jewish Tradition 26L, 13T**

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.

**RLG224YI Problems in Religious Ethics 52L, 26T**

An introduction to the analysis of ethical problems in the context of the religious traditions of the West. Abortion, euthanasia, poverty, environmental degradation, militarism, sex, marriage, and the roles of men and women.

Exclusion: RLG105YI

**RLG225HI Christian Ethics and Human Sexuality 26L, 13T**

The basis of Christian ethics for a formulation of standards of inter-personal conduct and sexual relations; an analysis of changing sexual mores, familial structures and child-rearing techniques; and a critical evaluation of the development of reproductive technologies.

Recommended Preparation: RLG 224YI

**RLG228HI Religious Ethics: The Environment 26L, 13T**

The ethics and religious symbolism of environmental change: animal domestication and experimentation, deforestation, population expansion, energy use, synthetics, waste and pollution.

**RLG231HI Religion and Science (formerly RLG 231YI) 26L, 13T**

The impact of the physical and social sciences on religion and religious thought. A comparative philosophical study of scientific and theological ways of analysis and of the status of scientific and religious assertions. Areas of cooperation and of conflict between the "two cultures."

Exclusion: RLG 231YI, SMC 230YI

**RLG232HI Religion and Film 26L, 13T**

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.

Exclusion: RLG 232H5

**RLG 236HI Women and Religion in Asia 26L, 13T**

A study of women in the religious traditions of South and East Asia, including historical developments, topical issues, and contemporary women's movements.

**RLG237HI Women and Western Religions (formerly RLG 237YI) 26L, 2T**

The social and legal status of women in Judaism, Christianity, and Islam. The historical and contemporary situation of women in these traditions.

Exclusion: RLG 237YI

**RLG239HI Special Topics 26L**

Some topic of central interest to students of religion, treated on a once-only basis by a professor visiting from another university. For details of this year's offering, consult the Department's current undergraduate handbook.

# Religion

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**RLG241YI Early Christian Writings I 52L, 26T**

An introduction to New Testament literature, examined within the historical context of the first two centuries. No familiarity with Christianity or the New Testament is expected.

Exclusion: RLG 241H5; 341H5; HUMC 14H3

**RLG243HI Diasporic Religions 26L, 13T**

An examination of religions in their contemporary diasporic and transnational modes. Issues addressed include the role of religions in sustaining identities across national boundaries, the impact of cultural forces such as commodification or gender upon religious representations and transformations, or the intersection of religion with other kinds of authoritative knowledge, such as medicine or law, in diasporic conditions. Recommended Preparation: RLG 100YI/RLG100H5/RLG280YI

**RLG245YI Religions of the Silk Road 52L, 26T**

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. Recommended Preparation: RLG100YI/280YI/100H5

**RLG248HI Martyrs, Mystics, and Saints 26L 13T**

An examination of the variety of ways in which religious traditions construct sanctity, articulate categories of exceptionalism, and how exceptional persons function within social systems. Consideration of gender and social status in definitions of sanctity. Focus varies from year to year, and may focus either on constructions of sanctity in one religious tradition, or comparatively, comparing and contrasting ideas of sainthood and martyrdom in Christianity, Judaism, Islam, Hinduism and/or Buddhism.

Recommended Preparation: RLG 100YI/RLG 100H5 / RLG 280YI

**RLG250HI Islam in the Modern World 26L, 13T**

An introduction to the development of Islam during the 19<sup>th</sup> and 20<sup>th</sup> century through the work of Muslim writers, such as Afghani, Abduh, Sayyid Ahmed Khan, Mawdudi, Sayyid Qutb, al-Qardawi, al-banna, Khomeini, Muhammad Iqbal, Seyyed Hossein Nasr, and Ali Shariati

**RLG251HI Women in Islam 26L**

An introduction to the role of women in Muslim societies in past and present. Topics include the status of women in the Qur'an and Islamic law, veiling, social change, and Islamic feminism.

Recommended Preparation: RLG 100YI/200YI/204YI/NMC 185HI/RLG 204H5

**RLG260YI Introduction to Sanskrit 52L, 26T**

An introduction to Sanskrit for beginners. An overview of basic grammar and development of vocabulary, with readings of simple texts.

**RLG261YI Introduction to Tibetan 52L, 26T**

An introduction to Tibetan for beginners. An overview of basic grammar and development of vocabulary, with readings of simple texts.

**RLG274HI Chinese Religions 26L, 13T**

The religions and philosophies of China, including ancient religion and mythology, the three traditions of Confucianism, Taoism, and Buddhism (including their philosophical dimensions), and Chinese popular religion.

Exclusion: RLG272YI, 272H5, 370YI

**RLG275HI Japanese and Korean Religions 26L, 13T**

The religions of Japan (Shinto, Buddhism, Confucianism) and the religions of Korea (Confucianism, Buddhism, Shamanism).

Exclusion: RLG273YI, 273H5, 370YI

**RLG280YI World Religions: A Comparative Study 52L, 26T**

An alternative version of the content covered by RLG 100YI, for students in second year or higher who cannot or do not wish to take a further 100-level course. Students attend the RLG 100YI lectures and tutorials but are expected to produce more substantial and more sophisticated written work, and are required to submit an extra written assignment.

Exclusion: RLG100YI

Prerequisite: Completion of 6 full course equivalents

**RLG290YI Special Topics TBA**

Topics vary from year to year.

**RLG299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

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## 300-Series Courses

### Note

**All 300-series courses normally presuppose at least three prior RLG half-courses (or equivalent).** Only specific prerequisites or recommended preparations are listed below. Students who do not meet the prerequisites but believe they have adequate preparation should consult the Undergraduate Administrator regarding entry to the course.

**RLG301HI Sigmund Freud on Religion 26L**

Systematic analysis of Freud's main writings on religion, studied within the context of central concepts and issues in psychoanalysis such as: the Oedipus Complex, the meaning and function of symbols, the formation of the ego and the superego, and the relations between the individual and culture.

Prerequisite: RLG211YI

This is a Social Science course

**RLG302HI Carl Jung's Theory of Religion 26L**

Jung's analysis of the development of the personality through its life cycle, and of the central place which religion holds within the process of maturation. The unconscious, the collective unconscious, dreams, myths, symbols, and archetypes; implications for religious thought, therapy, education, and definitions of community.

Prerequisite: RLG211YI

This is a Social Science course

**RLG303HI Evil and Suffering 26L**

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.

This is a Social Science course



- RLG304HI Language, Symbols, Self 26L**  
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. This is a Social Science course
- RLG307HI Religion and Society in Canada 26L (formerly RLG 307YI)**  
Sociological examination of religion in contemporary Canadian society: religions of English and French Canada; religious organization and demography; relation of religion to ethnicity, social questions and politics; secularization and privatization. Exclusion: RLG307YI  
Prerequisite: RLG210YI/SOC250Y/an introductory course in sociology  
This is a Social Science course
- RLG308HI Religion and the City 26L**  
The course focuses on the role of religion in the genesis and development of cities, as well as the ways urbanization and immigration have transformed religious organizations and identities. Various methodologies, including ethnography, social and cultural history, and textual analysis will be considered. In some years, course projects will focus on mapping the changing significance and presence of particular religions in Toronto. For 2007, the focus will be on Christianities in the GTA
- RLG309YI Religion, Morality and Law 52L**  
The relationship and interaction between religious and ethical norms, social and political ideals, and systems of law. The course concerns the ongoing dialectic between religious and other values, the application of religious ideas to social orders, and questions of religious and human rights.  
Prerequisite: three RLG or PHI/PHL half-courses and third year standing  
Exclusion: RLG 309H5
- RLG310YI Modern Atheism and the Critique of Religion 52L (formerly RLG310HI)**  
Historical and critical-philosophical examination of the development of atheism in Western intellectual circles. Consideration of 18th, 19th and 20th century critiques of religion derived from: theories of knowledge that privilege science; radical social and political thought; and analysis of the soul and its symbol-systems. Authors include Hume, Marx, Bakunin, Nietzsche, and Freud.  
Prerequisite: three RLG or PHI/PHL half-courses and third year standing
- RLG311HI World Religions and Ecology 26L**  
A study of the responses of selected world religious traditions to the emergence of global ecological concerns. Key concepts and tenets of the traditions and their relevance for an examination of the environmental crisis.  
Recommended preparation: RLG228HI  
Exclusion: RLG311H5
- RLG313HI Islam and Gender 26L**  
This course provides an introduction to past and contemporary debates among Muslims about gender. The historical and textual background--the material that is the basis of the debate--is examined first. Then, the ways that Muslim discourses, ranging from conservative to feminist, approach and utilize this material will be considered
- Recommended Preparation: RLG 204YI/ NMC185HI/ NMC185YI/ RLG237HI/ RLG314HI
- RLG314HI Gender Issues in Religion 26L**  
Examination of gender as a category in the understanding of religious roles, symbols, rituals, deities, and social relations. Survey of varieties of concepts of gender in recent feminist thought, and application of these concepts to religious life and experience. Examples will be drawn from a variety of religious traditions and groups, contemporary and historical.  
Exclusion: RLG 314H5  
This is a Social Science course
- RLG315HI Rites of Passage 26L**  
Analysis of rituals of transition from one social status to another (e.g., childbirth, initiation, weddings) from theoretical, historical and ethnographic perspectives. Particular attention is paid to the multi-religious North American environment, and to the importance of rites of passage in the construction of gendered identities.  
Prerequisite: three half-courses in RLG or PHI/PHL  
This is a Social Science course
- RLG316HI Classical Anthropological Theories of Religion 26L**  
An examination of the theories of religion developed by late 19th and 20th century anthropologists such as Taylor, Frazer, Durkheim, Freud, Van Gennep, Levi-Strauss, Douglas and Turner. Their ideas about systems of ritual and belief in small-scale, non-literate, kinship-based societies.  
Prerequisite: RLG212YI or any Anthropology course.  
This is a Social Science course
- RLG317HI Religious Violence and Nonviolence 26L**  
Religious violence and nonviolence as they emerge in the tension between strict adherence to tradition and individual actions of charismatic figures. The place of violence and nonviolence in selected faith traditions.  
Recommended preparation: RLG100YI/280YI  
Exclusion: RLG317H5
- RLG319HI Reconception of Biblical Figures in Early Jewish and Christian Sources 26L**  
This course examines the origins, growth, and texture of traditions that developed in early Judaism and Christianity around selected biblical figures. With an eye to the function played and authority held by these traditions, the course will focus variously on Adam and Eve, Enoch, Abraham, Miriam, Levi, David, and Solomon.  
Prerequisite: RLG 241YI/ NMC 280H / NMC 280YI
- RLG320HI Judaism and Christianity in the Second Century 26L**  
Judaism and Christianity in the period from 70 C.E. to 200. CE. The course focuses on the relationship between the two religious groups, stressing the importance of the setting within the Roman Empire.  
Prerequisite: RLG 241YI
- RLG321HI Early Christian Writings II 26L**  
An introduction to the first and second century Christian writings. A survey of the surviving works and their historical contexts, close analysis of selected texts and an examination of what these sources tell us about the early Christian communities.  
Prerequisite: RLG 241YI/RLG 203YI

# Religion

- RLG322HI Early Christian Gospels 26L**  
 Literary, historical, and rhetorical analyses of selected early Christian gospels. The gospels to be treated will vary, but each year will include a selection from the four canonical gospels and extra-canonical gospels (the Gospel of Thomas, the Gospel of Philip, the Gospel of Peter, the Gospel of Truth, infancy gospels, and fragments of Jewish-Christian gospels)  
 Prerequisite: RLG241Y1
- RLG323HI Jesus of Nazareth 26L**  
 An examination of the "historical Jesus" based on a critical study of the earliest accounts of Jesus, with intensive study of the Gospels to determine what can be said about Jesus' activities and teachings.  
 Prerequisite: RLG 241Y1  
 Exclusion: RLG323H5
- RLG324HI Paul of Tarsus 26L**  
 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 (the six disputed NT letters).  
 Prerequisite: RLG 241Y1  
 Exclusion: RLG324H5
- RLG325HI Visions and Revelations in Ancient Judaism and Christianity 26L**  
 This course treats 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.  
 Prerequisite: RLG202Y1/203Y1/241Y1 or permission of instructor  
 Exclusion: NMC 338H, RLG325H5
- RLG326HI Roots of Early Christianity and Rabbinic Judaism 26L**  
 Analysis of selected documents of Second Temple Judaism in their historical contexts, as part of the generative matrix for both the early Jesus movement and the emergence of rabbinic Judaism.  
 Prerequisite: RLG 241Y1/RLG 202Y1/RLG203Y1  
 Exclusion: RLG326H5
- RLG327HI Magic and Miracle in Early Christianity 26L**  
 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: RLG 241Y1
- RLG329HI The Development of Christian Identity 26L**  
 The development of Christian identity, examined from a psycho-social, ethical, and theological perspective, and as revealed in autobiographies, diaries and letters.  
 Prerequisite: one RLG course  
 Recommended Preparation: RLG 241Y, 242Y.  
 Exclusion: RLG329H5
- RLG330HI God and Evil 26L**  
 A study of some of the most important and influential attempts by Christians to reconcile their experience and understanding of evil with their purported experience and understanding of God. Selections from biblical writers, Augustine of Hippo, Thomas Aquinas, John Calvin, Karl Barth, and Gustavo Gutierrez.
- Prerequisite: Three half-courses in RLG, PHI/PHL or Christianity and Culture
- RLG331YI Eastern Christianity 52L**  
 The formation and development of distinctively Eastern traditions of Christianity. The history and major writers of Eastern Christianity up to the fall of Constantinople in 1453. The development of the national Eastern Churches up through the modern period, and their particular contributions to the Eastern Christian tradition.
- RLG333HI Christianity and Conflict 26L**  
 This course focuses on modern Christianity as an instigator of conflict and a resource for its resolution. Exploring conflict among Christians and between Christians and non-Christians, topics may include missions and colonialism; gender and sexuality; anti-Semitism; pacifism and just war; Catholic-Protestant tensions; cultural diversity and syncretism; and church-state relations.
- RLG334HI World History of Modern Christianity, 1770s-1914 26L**  
 Thoroughly cross-cultural study of how Christians across the world constructed the extraordinary variety of their religious life during the period when Christianity became by far the most widespread, the most diverse, and the most populous religion in world history. Emphasis on selected cultures on all continents.
- RLG335HI World History of Modern Christianity, 1914-present 26L**  
 Analysis of how Christians (i.e., one-third of the world's population) have engaged large themes since the First World War: liturgy, migration, creedal change, the Holy Spirit, religious privatization and public life, denominations, war, inculturation, scripture, secularity, disintegration of empires, world capitalism, encounter with Islam, Hinduism, Buddhism, indigenous religions, Judaism.
- RLG336YI Heresy and the Margins of Christian Identity 26L**  
 A comparative study of the history of marginal movements within Christianity. Includes studies of the social-historical theories of internal constructions of "deviance" and studies of selected heretical movements and central responses to such movements. In individual years the course may focus on specific regions and include travel to selected sites.  
 Prerequisite: A second-year RLG course
- RLG337HI Witchcraft and Magic in Christian Tradition 26L, 13T**  
 This course considers the history and theory of Western witchcraft, magic, and heresy in the mediaeval and early modern periods. Consideration of relevant anthropological theory, the relationship between constructions of witchcraft, the Enlightenment and the rise of science, and the role of gender in definitions of witchcraft.  
 Recommended Preparation: RLG 203Y1/RLG 203H5
- RLG338YI Technology, Ethics and the Future of Humanity 52L**  
 The role of technology within various projections of global economic development, examined from a Christian ethical perspective. Ethical responses to problems that threaten the future of humanity: poverty, resource depletion, environmental degradation, arms build-up, and biotechnical revolution.  
 Recommended preparation: RLG 224Y  
 Exclusion: RLG338H5

**RLG340YI Classical Jewish Theology 52L**

A study of four great figures during critical moments in Jewish history, each of whom represents a turning point: Jeremiah (biblical era), Rabbi Akiva (rabbinic era), Moses Maimonides (medieval era), Franz Rosenzweig (modern era). Belief in God; Torah as law, teaching, tradition, revelation, eternity of Israel, meaning of Jewish suffering, problem of radical evil, history and messianism.

Prerequisite: RLG100YI/202YI/221HI/280YI

**RLG341HI Dreaming of Zion: Exile and Return in Jewish Thought 26L**

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 section, and culminating in the ideas of modern Zionism, the course will examine a cross-section of Jewish thinkers- ancient, medieval, and modern.

Prerequisite: RLG100YI/202YI/280YI/342YI

**RLG342YI Judaism in the Modern Age 52L**  
(formerly RLG244YI)

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: RLG100YI/202YI/221HI/280YI

**RLG343HI Kabbala: A History of Mystical Thought in Judaism 26L**

A historical study of the Kabbala and the mystical tradition in Judaism, with emphasis on the ideas of Jewish mystical thinkers and movements.

Prerequisites: RLG100YI/202YI/280YI

**RLG344YI Antisemitism 26L**

The religious and cultural roots of antisemitism and its manifestations in Western civilization: anti-Jewish aspects of pagan antiquity, the adversus Judaeos tradition in classical Christian theology; racist antisemitism in Europe (the Aryan myth); the rise of political antisemitism; the Nazi phenomenon, antisemitism in Canada and the United States.

Prerequisite: A 200-level course in Judaism or Christianity or Western history

**RLG345HI Social Ecology and Judaism 26L**

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: RLG100YI/228HI/280YI/one course in Jewish Studies

**RLG346HI Time and Place in Judaism 26L**

The meaning of holy time and holy place, the physics and metaphysics of time and space within Judaism. Topics include the garden of Eden, the temple, the netherworld, the land of Israel, and exile; the sabbath and the week; the human experience of aging as fulfillment and failing.

Prerequisite: RLG100YI/280YI/one course in Jewish Studies

**RLG350HI The Life of Muhammad 26L**

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 Qur'an teachings and the veneration of Muhammad.

**RLG351HI The Qur'an: An Introduction 26L**

The revelatory process and the textual formation of the Qur'an, its pre-eminent orality and its principal themes and linguistic forms; the classical exegetical tradition and some contemporary approaches to its interpretation.

Prerequisite: RLG100YI/204YI/224HI/280YI/NMC185YI/NMC185H

Exclusion: NMC 285HI, NMC 285YI

**RLG352HI Islam in Religious Interaction 26L**

Aspects of the relationship of Islam with other religions and cultures. Topics treated may include attention to both the medieval and the modern periods as well as to contemporary challenges faced by Muslim populations in Europe and North America.

Prerequisite: RLG100YI/204YI/224HI/280YI/NMC185YI

**RLG353HI Islam and Popular Culture 26L**

Examines popular culture in the Muslim world and the portrayal of Islam in Western popular culture. Film, internet, music, news media, and ethnographic writings on pop culture in the Muslim world. Attention will also be given to specific incidents, such as the Salman Rushdie debate and the Danish cartoon controversy.

Prerequisite: RLG 204YI / RLG 204H5 / NMC 185HI

Recommended Preparation: RLG 232HI

This is a Social Science course

**RLG354HI Islam in Egypt 26L**

This course complicates the notion of a monolithic Islam through looking at different forms of religious life found in Egypt, including Sufism, state Islam, reformist Islam, and Islamist movements.

Prerequisite: RLG 204YI/RLG 204H5 / NMC 185HI

Recommended Preparation: RLG 250HI

This is a Social Science course

**RLG355HI Anthropology of Islam 26S**

Combines theoretical reflections on what an anthropology of Islam might entail with ethnographic readings on the practice of Islam in communities around the world.

Prerequisite: RLG 204YI / RLG 204H5 / NMC 185HI

Recommended Preparation: RLG 212YI / RLG 250HI

This is a Social Science course

**RLG361HI Hindu Myth 26L**

Readings in Vedic, Pauranic, Tantric and folk myths; traditional Hindu understandings of myth; recent theories of interpretation, e.g. those of Levi-Strauss, Eliade, Ricoeur, applied to Hindu myths.

Prerequisite: RLG100YI/205YI/280YI

**RLG363HI Hindu Ritual 26L**

Hindu ritual in its Vedic, Pauranic, Tantric, and popular forms; the meaning that ritual conveys to its participants and the relation of ritual to Hindu mythology and to social context.

Prerequisite: RLG100YI/205YI/280YI

**RLG365HI Modern Hinduism 26L**

The development of modern Hindu religious thought in the contexts of colonialism, dialogue with "the West" and the secular Indian state.

Prerequisite: RLG100YI/205YI/280YI

Exclusion: RLG360HI

# Religion

## **RLG366HI Classical Hindu Philosophy 26L**

A study of six classical schools of Hindu philosophy, focusing on the key issues of the Self, the Real, karma and ethics.

Prerequisite: RLG100/205/280/

Exclusion: RLG362HI

## **RLG367HI Religious Pluralism in Modern India 26L**

A study of the multi-religious context of modern India, focusing particularly on "minority" traditions such as Sikhism, Islam, Jainism, Zoroastrianism and others..

Recommended preparation: RLG 100YI/280YI/RLG 205YI

## **RLG371HI Buddhism in East Asia 26L**

The schools of Buddhism in East Asia, with focus on two principal ones: Ch'an (Zen) and Pure Land. Readings in translation from their basic sutras.

Prerequisite: RLG100YI/206YI/280YI

Exclusion: RLG371H5

## **RLG372HI Tibetan Buddhism 26L**

A survey of the various schools of Tibetan Buddhism, focusing on differences in both theory and practice, with readings of Tibetan texts in translation and ethnographic studies of Buddhist practice in Tibet.

Prerequisite: RLG206Y

## **RLG373HI Buddhist Meditation: Historical, Doctrinal, and Ethnographic Perspectives 26L**

This course will examine Buddhist meditation, its history, and basic concepts through a critical analysis of primary and secondary readings. Students will be asked to explore the tensions between knowledge and experience, belief and ritual, theory and practice as it unfolds in different representations of Buddhist meditation. A brief survey of some of the more important traditions of Buddhist meditation will be accompanied by an in-depth look at the specific contexts from which they arose.

Recommended Preparation: RLG 206YI/ RLG 206H5

## **RLG375HI Buddhist Thought in India and Tibet 26L**

An introduction to philosophical thought in the Buddhist traditions of India and Tibet.

Prerequisite: RLG206YI

## **RLG376HI Death and Rebirth in Buddhist Traditions 26L**

This course considers Buddhist notions of death, the afterlife, and rebirth. Topics include Buddhist cosmology and karmic causality, exemplary models of death and birth, and ritual studies of mortuary rites and birth practices. Readings will combine Buddhist primary texts in translation and secondary scholarship in religious studies and anthropology.

Prerequisite: RLG206YI

## **RLG379HI Daoism in Practice 26L**

What is Daoism? In this course we will examine the history of Daoist practice in medieval East Asia, paying close attention to the way scholars of Daoism have defined their subject in relation to Buddhism and the indigenous traditions of China, Japan, and Korea. Topics may include Daoist ritual, priesthood, textual practices, cosmology, meditation and alchemy. Emphasis will be placed on contemporary Daoist practice in Taiwan and North America.

Recommended Preparation: RLG100YI/280YI/208YI/274HI

## **RLG380HI Comparative Mysticism 26L**

A comparative examination of Christian (Latin and Orthodox), Buddhist, Confucian, Taoist, Hindu and Islamic mystical traditions.

## **RLG384HI Pluralism and Dialogue 26L**

The contemporary phenomenon of religious pluralism: its historical emergence, social context and intellectual justifications. Achievements, techniques and outstanding issues in inter-religious dialogue.

## **RLG386YI Religions of Non-Literate Societies 52L**

This course explores the nature of religion in societies whose main traditions are orally encoded. Emphasis will be placed on the peoples and cultures of Oceania in terms both of ethnography and of various theories about how to understand religion in small scale, kinship-based societies without written traditions.

Exclusion: RLG 318YI

Prerequisite: RLG 212YI or 2nd year Social/Cultural Anthropology Course

This is a Social Science course

## **RLG388HI Special Topics I 26L**

## **RLG389HI Special Topics II 26L**

## **RLG398H0/ 399Y0 Independent Experiential Study Project**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

## **400-Series Courses**

### **Note**

400-series courses are intended primarily for Specialists and Majors who have already completed several RLG courses.

Prerequisite for all 400-level courses is permission of the instructor. All 400-level courses are E indicator courses.

Students must enrol at the department.

## **RLG400YI/ 401HI/ 402HI 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. (YI course: 4 weeks minimum; H course: 2 weeks minimum)

## **RLG404HI Method and Theory Seminar 26S**

An advanced course in methodological and theoretical approaches to the study of religion. Topics considered include: historical development of religious studies; significance and application of interdisciplinary methodologies; key theorists and theoretical controversies. This team-taught course is of particular use to specialists and honours students seeking to develop superior research skills.

## **RLG410YI Advanced Topics in Religion 26S**

## **RLG411HI Advanced Topics in Religion 26S**

## **RLG412HI Advanced Topics in Religion 26S**

## **RLG420HI Religion and Philosophy in the European Enlightenment 26S**

An advanced study of selected Enlightenment thinkers with a focus on their interpretations of religion. The work of Immanuel Kant will form a focus point, but others will be discussed as

well. Issues include the rational critique of traditional religion, the relations among religion, ethics and politics, and the pursuit of universal approaches to religion.

**RLG421HI Topics in Psychology of Religion 26S**

Provides an indepth study of selected theorists in the psychology of religion, such as Freud, Ricoeur, Lacan, and Kristeva. Approaches the topic both in terms of interpretive models applied to individual and cultural religious forms, such as symbols, rituals, and personal experiences, and in terms. Of religious subjectivity as related to self-knowledge and ethical development.

**RLG422HI The Study of Non-Literate Religions in 19th and Early 20th Century France 26S**

This course will concentrate on works by Emile Durkheim, Arnold Van Gennep, Marcel Mauss, Lucien Levy-Bruhl, Robert Hertz and others that attempted to establish universals of religious beliefs and experience. Topics include double burial, sacrifice, rites of passage, "participation", and concepts of sacred and profane.

**RLG423HI The Birth of Anthropology 26S**

This course will examine the 19th Century origins of anthropology in the study of the bible and 'other' primitive religions. It will focus on influential works by Frazer, Tylor, Robertson-Smith, Mueller, Bachofen and Freud.

**RLG424H Dreams, Visions and the Enlightenment S**

Approaches dreams and visions from philosophical, psychological and ethnographic perspectives. Considers Aristotle, Hobbes and Kant on supernatural perception, Descartes' dream argument, Freud and Jung, as well as ethnographic accounts of the role of dreams and visions in different cultural contexts.

Prerequisite: RLG 211Y1 and permission of instructor

**RLG430HI Advanced Topics in Judaism 26S**

**RLG431HI Advanced Topics in Judaism 26S**

**RLG432YI Natural Law in Judaism and Christianity 52S**

This seminar deals with the question of how a religion like Judaism or Christianity, based on revelation and its norms, can acknowledge and incorporate norms discovered by human reason, without reducing reason to revelation or revelation to reason.

**RLG433HI Maimonides and His Modern Interpreters 26S**

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.

Exclusion: POL421HI

**RLG434HI Modern Jewish Thought 26S**

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.

**RLG435HI The Thought of Leo Strauss 26S**

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.

**RLG437HI Constructions of Authority in Early Christianity 26L, 13T**

This course examines changing patterns of authority and hierarchy in early Christian communities. Students will explore various roles and offices of authority in canonical and extra-canonical texts in relation to cultural, political, and theological constructions of body, gender, holiness, and orthodoxy as these contribute to developing models of authority. The goal of the course is to familiarize students with the constellation of ideas that participate in developing Christian notions of religious authority.

Prerequisite: Permission of instructor

Recommended Preparation: RLG 203Y1/RLG 203H5

**RLG440HI Religion and Healing 26S**

The relationship between religion and healing in the North American context through analysis of the religious roots of the biomedical model, as well as religious influences on alternative modes of healing.

**RLG442HI North American Religions 26S**

This course considers the varieties of religious practice in North America from anthropological and historical perspectives. Of particular interest are the ways religions have mutually influenced each other in the context of nineteenth and twentieth century North America.

**RLG448HI Religion and Material Culture in the Ancient World 26S**

The course emphasizes the importance of material culture (artifacts, tombs, architecture, art, industrial installations, etc.) in studying the ancient world, and how it relates to other ways of interpreting religion and society. The course does not require previous familiarity with archaeology, but it presupposes interest in studying a range of excavations. Open to advanced undergraduates and qualified graduate students with permission of the instructor.

**RLG449HI The Synoptic Problem 26S**

Investigation of the history of solutions to the Synoptic Problem from the eighteenth century to the present paying special attention on the revival of the Griesbach hypothesis and recent advances in the Two-Document hypothesis.

Prerequisite: RLG 241Y1 and at least one of RLG 319HI-327HI

**RLG451HI The Parables of Jesus 26S**

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: RLG 241Y1 and at least one of RLG 319HI-327HI

**RLG452HI The Death of Jesus 26S**

Examination of the accounts of the passion and death of Jesus in their original historical and literary contexts.

Prerequisite: RLG 241Y1 and at least one of RLG 319HI-327HI

# Religion

**RLG453HI Christianity and Judaism in Colonial Context 26S**  
 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.

**RLG454HI Social History of the Jesus Movement 26S**  
 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: RLG 241YI and at least one of RLG 319HI-327HI

**RLG455HI Heresy and Deviance in Early Christianity 26S**  
 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: RLG 241YI and at least one of RLG 319HI-327HI

**RLG456HI Readings in Qur'an and Tafsir 26S**  
 This course is an introduction to the rich literature that has grown around the study of the Qur'an in the Arabic tradition. In addition to readings in the Qur'an students will read selections from works in ma'ani and majaz and major tafsir works. Selections include: al-Tabari, al-Tha'labi, al-Zamakhshari, al-Qurtubi and al-Razi. The course will culminate in a study of al-Itqan of al-Suyuti.  
 Prerequisite: At least two years of Arabic, or advanced reading knowledge, or permission of the instructor.

**RLG457HI The Qur'an and its Interpretation 26S**  
 This course is designed to orient students to the field of contemporary Qur'anic studies through reading and discussion of the text itself and of significant European-language scholarship about the Qur'an as well as through examination of the principal bibliographical tools for this subject area.  
 Prerequisite: At least two years of Arabic or advanced reading knowledge, or the permission of the instructor.

**RLG458HI Apocryphal Bible 26S**  
 Biblical or para-biblical literature continued to be produced by Jewish and Christian writers long after the establishment of the canons of the Jewish and Christian Bibles. This course introduces the student to some of the more important pieces of Old Testament pseudepigrapha and New Testament apocrypha and their modern scholarly study.

**RLG459HI Disciplining Islam 26S**  
 Considers the disciplinary power of modernity through case-studies on the codification of Islamic law and practice. Contrasting modernity's discipline with Islam's own disciplinary power. Readings include works by Saba Mahmood, Charles Hirschkind, Jakob Skovgaard-Petersen, Brinkley Messick, Michel Foucault and Talal Asad.  
 Prerequisite: Permission of Instructor  
 Recommended Preparation: RLG 204YI/RLG 204HI/NMC 185H/RLG 250HI  
 This is a Social Science course

**RLG460HI Ramayana in Literature, Theology, and Political Imagination 26S**  
 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: RLG 205YI / RLG 205HI

**RLG461HI Ismaili History and Thought: The Persian Tradition 26S**  
 Biblical Critical reading, analysis and interpretation of Ismaili historical and doctrinal works of the Persianate tradition as developed by authors such as Nasir-i Khusraw, Nasir al-Din Tusi, Nizari Quhistani and others. The primary authors studied will change yearly.

**RLG463HI Causation, Movement and Time in Buddhist Scholastic Debate 26S**  
 Starting from the basic Buddhist doctrines of karmic retribution and conditioned co-arising the course will explore how the idea of causation, the conceptualization of movement and their implications for models explaining the temporal character of the impermanent have shaped the course of Buddhist thought across schools and throughout various phases of Buddhist intellectual history in South Asia.  
 Prerequisite: Permission of Instructor  
 Recommended Preparation: RLG 206YI/ RLG 206H5

**RLG464HI History and Historiography of Buddhism 26S**  
 This course examines histories of Buddhism authored inside and outside Asia, considering how various models of historiography affect our knowledge of Buddhism and Buddhist cultures. Readings will include translations of indigenous Buddhist histories, recent histories of Buddhism that have shaped the field of Buddhist Studies, and theoretical studies of historiography

**RLG465HI Buddhism and Science 26S**  
 Why associate Buddhism, or any religion for that matter, with science? We will attempt to answer this question by examining the specific concerns and agendas that governed and continue to govern the study of Buddhism and other Asian religions in the post-Enlightenment, colonial, and post-colonial eras. We will attempt to take the various representations of Buddhism as a "scientific" religion to task by examining them and their sources in their proper contexts.  
 Prerequisite: Permission of Instructor  
 Recommended Preparation: RLG 206YI / RLG 206H5

**RLG466HI Buddhism and Society in East Asia 26S**  
 Issues common to the establishment and development of the Buddhist tradition(s) in China, Korea, and Japan. The reactions to Buddhism by the societies in which it was being implanted. Transformation of Buddhist teachings, practice, iconography, institutions, etc. as they were assimilated by the host countries.

**RLG467HI Esoteric Buddhism in East Asia 26S**  
 An in-depth examination of the historical, ritual and doctrinal foundations of Esoteric Buddhism in China and Japan. Emphasis will

be placed on the Japanese Shingon tradition. The course will begin with an overview of what we do (and do not) know about the rise of Buddhist Tantra in India and will conclude with a survey of recent scholarly debates over the nature of Tantra itself.

Prerequisite: Permission of instructor

Recommended Preparation: RLG 206Y1; RLG371HI

**RLG468HI Religion and Society in Classical Japan 26S**

Major developments in the history of Japanese religious traditions from the earliest known times (ca. 6th cent. C.E.) to the beginning of the modern era. This course will focus on the relations between the religious dimension of Japanese society and its social-political-economic dimensions.

**RLG469YI Readings in Tibetan Buddhism 52S**

Advanced readings in Tibetan Buddhist literature. Tibetan language skills required.

Prerequisite: Instructor's permission required for admission to course.

**RLG471HI Advanced Topics South Asian Studies 26L**

Content varies from year to year.

**RLG472HI Religion and Aesthetics in South Asia 26S**

'Religion' and 'aesthetics' are sometimes constructed as separate categories, but in South Asia religion is not often conceptually distinct from an autonomous sphere of aesthetic reflection. In conversation with recent sociological, anthropological, and philosophical writings, we will explore this issue through careful study of a variety of Sanskrit sources: the epics, Abhinavagupta's commentary on the Natya Sastra, Vaishnava, Saiva, and Jaina appropriations of Sanskrit aesthetics and courtly poetry, and the works of Rabindranath Tagore. Students are encouraged to work with sources in the primary languages, although materials will also be provided in translation.

**RLG482HI The Taking of Human Life 26S**

Frequently today in discussions in bioethics dealing with life and death, even secular thinkers invoke the concept of the "sanctity of human life." Yet that concept is clearly religious in origin. What do the three great monotheistic traditions have to say about this concept and its ethical significance?

**RLG483HI Christian Political Philosophy 26S**

The writings of Simone Weil will be studied within the context of political theory and contemporary Christian philosophy. The basis for Weil's critique of the technological society will be examined.

**RLG484HI Religion and the Environment 26S**

This course examines how religious concerns within various religious traditions interface with contemporary environmental issues. Particular attention is paid to the challenge posed to the human and religious values of these traditions by the present ecological crisis and some salient ethical and religious responses to this challenge.

**RLG486HI Critiques of the Technological Society 26S**

Major twentieth-century critiques of the technological society through an examination of the philosophical and theological writings of George Grant, Jacques Ellul and Simone Weil. Their seminal critiques will be contrasted with the ethical analyses of Ursula Franklin, Albert Borgmann, Hans Jonas, and Zygmunt Bauman.

**RLG487HI Liberation Theology 26Si**

This course explores the work of these two seminal contemporary Christian thinkers, Gustavo Gutiérrez, founder of the liberation theology, and U.S. "geologist" Thomas Berry, a cultural historian and prime architect of "the new cosmology". The two thinkers highlight the conflict and convergence of social justice and ecological invitations within Christianity.

**RLG490YI Individual Studies TBA**

491YI/

492HI/

493HI

494HI

Student-initiated projects supervised by members of the Department. The student must obtain both a supervisor's agreement and the Department's approval in order to register. The maximum number of Individual Studies one may take is two full course equivalents. Deadline for submitting applications to Department including supervisor's approval is the first week of classes of the session.

**Renaissance Studies: see Victoria College**

**Russian: see Slavic Languages and Literatures**

**Serbian: see Slavic Languages and Literatures**

**Sexual Diversity Studies: see University College**

## Faculty

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### Professors

A. Dooley, MA, Ph D  
M. G. McGowan, MA, Ph D  
D.A. Wilson, MA, Ph D

### Associate Professors

G. Silano, LLB, MA, Ph D

### Assistant Professors

J. Harris, MA, Ph D  
R. Locklin, MTS, Ph D

### Senior Lecturer

M. Nic Dhiarmada, MA, H Dip Ed

St. Michael's College offers a number of programs which emerge from its academic strength in various scholarly fields and reflect its centuries-old Christian intellectual traditions. Please consult the relevant brochures for more complete information on each program.

### Book and Media Studies:

An interdisciplinary and historical investigation of the role of printing, books and reading in cultures past and present. Topics explored include: manuscript and book production, internet publishing, book illustrations, censorship, advertising, readership and electronic media.

### Celtic Studies:

Examines the literature, languages, history, music, folklore and archaeology of the peoples of Ireland, Scotland and Wales. Investigates Celtic identities in the ancient and modern worlds, and explores the transmission of Irish, Scottish and Welsh traditions to Canada and the United States.

### Christianity and Culture:

A multidisciplinary exploration of Christian traditions from artistic, literary, philosophical, theological, scientific, social and historical perspectives.

### Christianity and Culture: Major program in Religious Education

This Major program is part of the Concurrent Teacher Education Program (CTEP) offered in partnership with the Ontario Institute for Studies in Education (OISE/UT) and is for those students preparing to become secondary school teachers of Religious Education in the Separate School Boards in Ontario.

### Mediaeval Studies:

An interdisciplinary treatment of the history, art, literature and thought of the Middle Ages.

St. Michael's also offers a number of courses, listed below, which form part of the above programs, or of the programs of other colleges and departments, or are a reflection of staff and student academic interests not always available in departmental course offerings.

Principal & Program Director: Mark G. McGowan, 81 St. Mary Street, Room 127, Odette Hall (416-926-7102)

## St. Michael's College Programs

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Enrolment in the Specialist, Major and Minor programs of St. Michael's College is open to students who have completed four courses; no minimum GPA required.

### Book and Media Studies (Arts program)

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Consult Dr. Dorothy Speirs, St. Michael's College

#### Major program:

(6 full courses or their equivalent, including at least two 300+ series courses)

1. SMC 219Y1
2. SMC 228Y1
3. One full course or its equivalent from among SMC courses as designated by the program
4. Three full courses or their equivalent from: ABS300Y1/302H1/ANT323Y1/ENG232H1/234H1/235H1/322Y1/FAH319H1/FCS297H1/FRE450H1/HIS241H1/316H1/341Y/367H1/374H1/375H1/419H1/437H1/455H1/477H1/HPS201H1/202H1/INI301H1/305H1/NMC357Y1/POL451Y1/SLA254H1/SMC210Y1/217H1/300H1/301H1/304H1/305H1/314H1/315H1/358H1/361H1/398H1/399Y1/VIC345H1/VIS206H1/WDW385H1/WGS271Y1

#### Minor program

(4 full courses or their equivalent, including at least one 300+ series course)

1. SMC 219Y1
2. SMC 228Y1
3. Two courses or their equivalent from those included in 3. and 4. in the Major program above

### Celtic Studies (Arts program)

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Consult Mairin Nic Dhiarmada, St. Michael's College.

Enrolment in the Specialist, Major and Minor programs in Celtic Studies is open to students who have completed four courses; no minimum GPA required.

#### Specialist program:

(10 full courses or their equivalent, at least four of which are 300+ series courses, including at least one 400-series course)

1. SMC 240Y1
2. Two of SMC 141Y1/241Y1/242Y1/243Y1/331Y1/440Y1/441Y1
3. Seven courses, either from List 2. above or SMC 333H1/334H1/335Y1/342Y1/343Y1/344Y1/345Y1/346Y1/348Y1/349H1/350H1/351H1/352Y1/353Y1/354Y1/355H1/356H1/395Y1/396H1/411H1/412H1/413H1/414H1/416H1/450Y1/451Y1

#### Major program:

(6 full courses or their equivalent, including at least two 300+ series courses)

1. SMC 240Y1
2. One of SMC 141Y1/241Y1/242Y1/243Y1/331Y1/440Y1/441Y1
3. Four additional courses from those listed in the Specialist program above

#### Minor program:

(4 full courses or equivalent chosen from those listed for the Specialist program, including at least one 300+ series course)



## **Christianity And Culture (Arts program)**

Consult Dr. Jennifer Harris, St. Michael's College.

The courses of the Christianity and Culture Program include (1) all the SMC prefixed courses listed below under the Christianity and Culture heading, and (2) the following courses of other departments: HIS 469HI/ RLG 222HI/225HI/ 321HI/330HI/331YI /338YI/384HI. In addition to Christianity and Culture courses, a number of other courses are cross-listed and may be counted towards the major and specialist programs as specified below. This list is available from the Programs Administrator, Room 132, Odette Hall, and on the St. Michael's College web site.

### **Specialist program:**

(10 full courses or their equivalent: at least four of which are 300+series courses, including one 400-level course; a total of two courses may be selected from the approved list of cross-listed courses)

1. SMC 103YI/203YI
2. One full course equivalent from SMC 200YI/205HI/208YI/ 215HI/230YI
3. Any three of the following four options:
  - a) Two courses from "Christianity and Society": SMC 203YI/ 204HI/205HI/207HI/208YI/209HI/215HI/304HI/ 308HI/309HI/311HI/313HI/320HI/321HI/332HI/ 362YI/390YI/391HI/400HI/401HI/421HI/426HI/427HI/ HIS469HI/ RLG222HI/225HI/321HI or relevant cross-listed courses
  - b) Two courses from "Christianity and the Intellectual Tradition": SMC 208YI/307YI/310HI/311HI/312HI/ 330YI/332HI/ /390YI/391HI/400HI/401HI/417HI/418HI/ 419HI/421HI/423HI/424HI/429HI/ RLG 222HI/321HI/ 330HI/331YI/384HI or relevant cross-listed courses
  - c) Two courses from "Christianity, Arts and Letters": SMC 200YI/201HI/206HI/216YI/217HI/302HI/305HI/ 390YI/391HI/400HI/401HI/422HI/425HI/428HI or relevant cross-listed courses
  - d) Two courses from "Christianity and the Scientific Tradition": SMC 230YI/306HI/370HI/371HI/390YI/ 391HI/400HI/401HI/RLG338YI or relevant cross-listed courses
4. Two additional Christianity and Culture courses or cross-listed courses.

### **Major program:**

(6 full courses or their equivalent: at least two 300+series courses)

1. SMC 103YI/203YI
2. One full course equivalent from SMC 200YI/205HI/208YI/ 215HI/230YI
3. Four additional Christianity and Culture courses, of which one course may be chosen from the approved list of cross-listed courses.

### **Minor program:**

(4 full courses or their equivalent: at least one 300+ series course)

1. SMC 103YI/203YI
2. One full course equivalent from SMC 200YI/205HI/208YI/ 215HI/230YI
3. Two additional Christianity and Culture courses

## **Minor Program in Christianity and Education (Arts Program)**

This program offers students the opportunity to consider the theory, practice and history of Christian pedagogy.

(4 full courses or their equivalent: at least one 300+ series course)

1. SMC103YI
2. SMC312HI
3. SMC313HI
4. Two additional courses from Christianity and Culture: SMC200YI/201HI/203YI/204HI/205HI/206HI/207HI/ 208YI/209HI/215HI/216YI/217HI/230YI/302HI/304HI/ 305HI/306HI/307YI/308HI/309HI/310HI/311HI/320HI/ 321HI/330YI/332HI/362YI/370HI/371HI/417HI/418HI/ 419HI/421HI/422HI/423HI/424HI/425HI/426HI/427HI/ 428HI/429HI.

## **Christianity and Culture: Major Program in Religious Education (Arts Program)**

(part of Concurrent Teacher Education Program)

Consult Dr. Michael O'Connor, St. Michael's College

(8 full courses or their equivalent, at least two 300+ series courses)

1. SMC103YI
2. Two courses as follows: JSV200HI; SMC271HI; 272HI; 313HI
3. At least one half course from the following: SMC362YI/ 426HI/471HI
4. 4.5 courses from the following: SMC200YI/205HI/208YI/ 215HI/216YI/217HI/230YI/304HI/305HI/307YI/308HI/ 310HI/311HI/312HI/330YI/ 370HI/417HI/418HI/419HI/ 428HI/429HI/RLG100YI.

## **Mediaeval Studies (Arts program)**

Consult Professor Joseph Goering, St. Michael's College

### **Specialist program:**

(12 full courses or their equivalent: at least four 300+ series courses including one 400-series course)

1. SMC 210YI
2. Two courses or equivalent from the foundational courses listed below
3. Two courses or equivalent in Latin
4. SMC 490YI: Senior Essay in Mediaeval Studies
5. Six courses or equivalent from the approved courses listed below

### **Major program:**

(7 full courses or their equivalent: at least two 300+ series courses)

1. SMC 210YI
2. One full course or its equivalent from the foundational courses listed below
3. Four full courses or their equivalent from the approved courses listed below
4. SMC 490YI: Senior Essay in Mediaeval Studies, or another course from the approved courses

### **Minor program:**

(4 full courses or their equivalent: at least one 300+ series courses)

1. SMC 210Y1
2. One course or equivalent from the foundational courses listed below
3. Two courses or equivalent from the approved courses listed below.

### Foundational Courses:

SMC 302HI	Christianity and Symbols
SMC 307YI	Scripture in the Christian Tradition
SMC 358HI	The Mediaeval Book
SMC 359HI	Mediaeval Theology
SMC 360HI	Vernacular Literature of the Middle Ages
SMC 361HI	Mediaeval Law

### History:

CLA 378HI/ HIS 208Y1/220Y1/251Y1/320Y1/322Y1/323HI/  
336HI/403Y1/ 424HI/427HI/428HI/432HI/434Y1/438HI/  
HPS 201HI/430HI/ NMC 270HI/272HI/273Y1/353HI/366Y1/  
376HI/ SMC 211HI/215HI/ 345Y1/357HI/403HI/421HI

### Thought:

CLA 336HI/ MAT 390HI/ PHL 200Y1/205HI/206HI/303HI/  
304HI/ 307HI/308HI/309HI/336HI/ RLG 241Y1/331Y1/ SMC  
205HI/307Y1/332HI/350HI/ 359HI/361HI/402HI/425HI

### Literature:

ENG 240Y1/241Y1/300Y1/330HI/367Y1/ 400Y1/401Y1/481HI/  
FRE 420HI/471HI/GER429HI/ ITA 311HI/312HI/320HI/  
430HI/ LAT 100Y1/ NMC 255HI/350HI/ SMC 322HI/323HI/  
343Y1/360HI/440Y1/441Y1/ 450Y1/ SLA 330Y1/ SPA  
425HI/450HI

### The Arts:

FAH215HI/216HI/316HI/318HI/319HI/325HI/326HI/327HI/  
328HI/420HI/421HI/424HI/425HI/426HI/492Y1/MUS208HI/  
NMC366Y1/464HI/SMC302HI/344Y1/358HI/422HI

## St. Michael's College Courses

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Listed in this order:

Book and Media Studies  
Celtic Studies  
Christianity & Culture  
Mediaeval Studies  
Other

See page 33 for Key to Course Descriptions

For Distribution Requirement purposes (see page 27), All SMC courses are classified as HUMANITIES courses, except JSV200HI, SMC271HI,272HI,344Y1,471HI, which are Social Science courses.

### Book and Media Studies Courses

**SMC219Y1**    **Mass Media in Culture and Society**    **52L, 26T**

Designed to acquaint students with the essential notions of media studies, and to promote a conscious utilization of contemporary media. Starting with the preliminary definitions of "media," "mass," and "communications," the student is invited to consider critically the cultural constructs created by modern media, from print to photography, filming, TV, computer and Internet.

**SMC228Y1**    **Books and Readers**    **52L**

An introduction to book and print culture and readership, from manuscripts to information technologies. Attention is given to topics such as the development of the printing press, illustrations, censorship, copyright, book clubs, and best-sellers. Visits to rare book collections are an integral part of the course.

Note: this course is not intended as a guide to self-publishing.

**SMC300HI**    **Special Topics in Book and Media Studies I**    **26L**

Designed to provide for individual half-courses not already covered in the listed range of the Book and Media Studies Program offerings.

Prerequisite: Permission of the instructor

Recommended preparation: SMC219Y1/SMC228Y1

**SMC301HI**    **Special Topics in Book and Media Studies II**    **26L**

Various topics are taken up each year, the content of which depends on the instructor. Students should check the program brochure for details.

Prerequisite: Permission of the instructor

Recommended preparation: SMC219Y1/SMC228Y1

**SMC314HI**    **Media Revolutions**    **26L**

A deeper examination of key cases in the development of media, such as the invention of movable type, the mechanization of the printing press, standardization of call number systems (Dewey, LC, etc.), the advent of radio, television and internet. Topics vary from year to year, according to the instructor.

Recommended preparation: SMC219Y1/SMC228Y1

**SMC315HI**    **The Newspaper in Canadian Society**    **26L 10T**

Through lectures, tutorials and fields trips, this course examines the origins and development of the English-language newspaper in Canada since the 18th century. Research projects focus on the historical newspaper collections of the University of Toronto libraries, the Toronto reference library, and the Archives of Ontario.

Recommended preparation: SMC219Y1/SMC228Y1

**SMC398HI**    **Independent Study in Book and Media Studies**    **TBA**

An independent research project to be proposed by the student and supervised by a full-time faculty member affiliated with the Book and Media Studies Program.

Prerequisite: SMC219Y1; SMC228Y1; enrolment in the Major program; approval of Program Director

**SMC399YI**    **Independent Study in Book and Media Studies**    **TBA**

An independent research project to be proposed by the student and supervised by a full-time faculty member affiliated with the Book and Media Studies Program.

Prerequisite: SMC 219Y1; SMC228Y1; enrolment in the Major program; approval of Program Director

### Celtic Studies Courses

**SMC141YI**    **Introduction to the Irish Language**    **52L, 26T**

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.

**SMC240Y1 Celtic Culture Through the Ages 52L, 26T**

The expression of Celtic culture in literature, history, folklore and myth from 600 B.C. to the present, with particular attention to the continuing Celtic contribution to Western culture.

**SMC241Y1 Intermediate Irish Language Studies 52L, 26T**

This course builds on SMC 141Y1 Introduction to the Irish Language. It will provide further expansion of the four language skills: listening, speaking, reading and writing.

Prerequisite: SMC141Y1

**SMC242Y1 An Introduction to Scottish Gaelic 52L, 26T**

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.

**SMC243Y1 Modern Welsh 52L, 26T**

An introductory course intended to provide a basic speaking and reading knowledge of Modern Welsh. Open to students with no prior experience of Welsh.

**SMC331Y1 Advanced Irish Language 52L**

Speaking, writing and reading competence is emphasized in this course. This course concentrates on the study of modern Irish literary texts, both poetry and prose and advanced translation into the Irish language.

Exclusion: SMC341Y1

Prerequisite: SMC141Y1, 241Y1 or permission of the instructor

**SMC333HI/ Special Topics in Celtic Studies III 26S**  
**334HI (formerly SMC408HI/409HI)**

Various topics are taken up each year, the content of which depends on the instructor. Students should check the program brochure for details.

Prerequisite: Permission of the instructor.

Exclusion: SMC408HI, 409HI

**SMC335Y1 Special Topics in Celtic Studies I 52S**  
**(formerly SMC410Y1)**

Topic varies from year to year, depending on the instructor. Students should check the program brochure for details.

Prerequisite: Permission of the instructor.

Exclusion: SMC410Y1

**SMC342Y1 Literature and Politics: Ireland, Scotland and Wales 52L**

This course examines the way in which modern Irish, Scottish and Welsh writers have responded to the pressures of anglicization and modernization, and discusses literary reactions to social, ethnic and gender issues in contemporary culture.

**SMC343Y1 Celtic Literature and Society 52L**  
**500-1500**

Literature in relation to the structure and development of the insular Celtic society that produced it; the Mythological, Ulster, Fenian, and Historical Saga cycles; voyages, visions, religious, lyric, and gnomic poetry, British heroic poetry, medieval Welsh narratives both secular and religious. Texts studied in translation.

**SMC344Y1 Celtic Archaeology and Art 52L**

The art and archaeology of the Celtic peoples, with special reference to settlement patterns in Great Britain and Ireland. This is a Social Science course.

**SMC345Y1 From Tribalism to Feudalism: Early Celtic History 52L**

The political and social development of Ireland, Scotland, Wales, and Brittany from the 5th to the 12th centuries.

**SMC346Y1 Celtic Folklore and Music 52L**

An examination of the relationship between Celtic mythology and the ancient art of storytelling, and an exploration of the place of traditional music in modern society.

**SMC348Y1 Modern Irish History 52L**

This course explores ethno-religious conflict and Anglo-Irish relations between 1791 and 1985. Special attention is paid to the rise of the United Irishmen and the Orange Order during the 1790s, the domestic and international repercussions of the Famine, the political revolution of 1916-23, and the troubles in Northern Ireland.

**SMC349HI Seamus Heaney and Irish Literary Tradition 26L**

This course examines the poetry and other writings of Seamus Heaney against the background of a modern tradition of Irish writing. Special attention is paid to issues of nationalism, the tensions of social and historical involvement, the place of Gaelic tradition and translation in the creation of a poet whose scope and audience is international.

Recommended preparation: SMC342Y1, ENG140Y1

**SMC350HI Celtic Spirituality 26L**

The religious culture of the early and mediaeval Celtic Church as manifested in the material and written record; its significance for contemporary religious movements. Texts studied include the Patrician dossier, early monastic Rules and Liturgies, selected hagiographical, homiletic, devotional and lyric texts.

**SMC351HI The Blasket Island Writings 26L**

The Blasket Islands lie off the southwest coast of Ireland. This course will examine the important "library" of books written and orally recorded by the islanders from the 1920s onwards. Special attention will be paid to "The Island Man"; "Peig" and "Twenty Years a Growing". Texts studied in translation.

**SMC352Y1 Modern Gaelic Literature 52L**

A study of the Gaelic literature of Ireland from the seventeenth century to the present within its poetical and historical context. Texts of poetry, prose and historical writings from this era will be examined, concluding with a reading of contemporary writers. Texts will be studied in translation.

Exclusion: SMC347Y1

**SMC353Y1 Contemporary Irish Writing 52L**

An introduction to contemporary Irish writing, in its social context, in both Irish and English languages. Among writers studied are Paul Muldoon, Eavan Boland, John McGahern, Michael Longley, Nuala Ni Dhomhnaill, Cathal O Searcaigh, Roddy Doyle, Caitlin Maude, and Alan Titley. Irish language authors are studied in translation.

**SMC354Y1 Celtic Cinema 52L, 52T**

An introduction to the films of Ireland, Scotland and Wales, as they relate to representations of Celtic identity and the development of national cinemas.

**SMC355HI Modern Welsh History 26L**

An examination of economic, political and social change in Wales from the eighteenth century to the present. Special attention is paid to class conflict in the coalfields, rural-urban relations, language issues, and the search for national identity.

**SMC356HI The Continental Celts 26L**

The course examines the early history of the Celtic peoples in Europe from their first appearance in the material culture of prehistoric Europe to their eventual disappearance as a political power in the first century of Roman conquest.

Recommended preparation: SMC240YI

**SMC395YI Independent Study in Celtic Studies TBA**

A research project chosen by the student in consultation with an instructor and approved by the Program Co-ordinator.

Arrangements for the choice of topic and supervisor must be completed by the student before registration.

Prerequisite: Approval of Instructor and Program Director

**SMC396HI Independent Study in Celtic Studies TBA**

A research project chosen by the student in consultation with an instructor and approved by the Program Co-ordinator.

Arrangements for the choice of topic and supervisor must be completed by the student before registration.

Prerequisite: Approval of Instructor and Program Director

**SMC411HI/ Advanced Topics in Celtic Studies II 26S 412HI**

Various topics are taken up each year, the content of which depends on the instructor. Students should check the program brochure for details.

Prerequisite: Permission of the instructor

**SMC413HI The Irish in Canada 26S**

This course explores the history of Irish migration and settlement in Canada with a special emphasis on political, social, economic and religious themes.

Exclusion: SMC411HI (93-94), 412HI (94-95)

**SMC414HI The Scots in Canada 26S**

This course explores, by means of the historical method, Scottish migration and settlement in Canada, with special emphasis on religious, cultural, political, social and economic themes.

**SMC416HI Irish Nationalism in Canada and the United States 26S**

This course examines the origins, character and development of Irish Nationalism in Canada and the United States. Special attention is paid to the United Irishmen in the United States, the Young Ireland exiles and the Fenian movement in North America.

Prerequisite: Permission of instructor

**SMC440YI Middle Welsh Language and Literature 52L**

An introduction to the Welsh language and literature from the 10th to the 14th centuries.

Prerequisite: Permission of instructor

**SMC441YI Old and Middle Irish 52L**

An introduction to Old and Middle Irish language and literature from the 7th to the 11th century.

Prerequisite: Permission of instructor

**SMC450YI Celtic Mythology 52L**

This course covers the range of the Celtic mythological record from all the Celtic areas through an examination of the archaeological, inscriptional and textual sources. A critical evaluation is offered of various relevant mythic approaches.

Exclusion: SMC340YI

Prerequisite: RLG100YI/SMC240YI, and permission of the instructor

**SMC451YI Senior Essay in Celtic Studies TBA**

A scholarly project chosen by the student in consultation with an instructor and approved by the Program Coordinator.

Arrangements for the choice of topic must be completed by the student before registration.

Prerequisite: Permission of instructor

## Christianity and Culture Courses

**SMC103YI Catholicism 52L, 26T**

An introduction to Catholic Christianity, to its history, institutions, and theology. The second part of the course examines the renewal effort of Vatican II and offers a contemporary Catholic reading of the Creed.

**SMC200YI The Christian Imagination 52L, 26T**

The purpose of this course is to introduce students to the depth and breadth of the imagination in the western Christian tradition. We shall explore components of the distinctively Christian imagination, as well as its expression in various media, including the visual and plastic arts, literature, film, and music.

**SMC201HI Christianity and Literature 26L, 13T (formerly Christian Classics)**

An exploration of major Christian themes, such as redemption and sacrifice, in works of ancient and modern literature.

Includes an examination of different genres (the novel, poetry, drama), written for differing times and cultures.

**SMC203YI Christianity Encounters the Secular World 52L, 26T**

Issues raised by Christianity's encounter with secular culture, and solutions proposed by the tradition: involvement in political structures, social movements, ethnic communities, and changing world views.

**SMC204HI Christianity and Asia 26L, 13T**

A study of key elements in the encounter of Christianity and Asia: e.g. the controversy over Chinese rites; Korea's conversion by lay philosophers; the development of Filipino folk Catholicism and its impact on politics; the influence of Indian thought on recent Western theologians.

**SMC205HI Varieties of Christian Experience 26L, 13T**

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.

**SMC206HI Christianity and Music 26L, 13T**

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.

Recommended preparation: SMC200YI/203YI

**SMC207HI Christianity in Latin America 26L, 13T**

The development of Christian communities in Latin America with an emphasis on such themes as the Spanish Conquista, missions, church-state relations, popular religious culture, and the emergence of Liberation Theology.

Recommended preparation: SMC203YI

**SMC208YI Major Christian Thinkers 52L, 26T**

An introduction to the Christian intellectual tradition through a study of key figures representing a variety of historical periods, from the patristic through the medieval to the modern and contemporary. The selected authors discuss a range of religious, intellectual and human issues from basic Christian beliefs to the challenges of modern and postmodern cultures.

**SMC209HI Christianity in Africa 26L, 13T**

The social, theological, and institutional development of Christian communities in Africa, including the birth of early churches in North Africa, missionary activity, popular religion, and the emergence of new Christian movements in the post-colonial period.

Recommended preparation: SMC203YI

**SMC215HI Varieties of Christian Community 26S**

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.

**SMC216YI Ritual and Worship 52L, 26T**

An introduction to Christian ritual and worship, in cross-cultural and ecumenical perspective. Biblical roots and historical development of the Christian sacraments, especially baptism and the Eucharist. Contemporary Catholic perspectives on worship in a secular and multicultural world.

**SMC217HI Literature and the Christian Child 26L, 13T**

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.

**SMC230YI Christianity and Science 52L, 26T**

The course examines the emergence of the physical sciences within Christian culture. It also traces broad historical developments, such as the rise of technology and the acceptance of empirical observation as a method of inquiry, and their impact on Christian faith.

Exclusion: RLG231YI

**SMC302HI Christianity and Symbols 26L, 13T**

The originality of Christian symbolism is explored through texts, images, and other media. We examine theories of symbolism, then explore the use of Christian symbolism and symbolic patterns in ancient, medieval, and modern art, architecture, literature, and film.

**SMC304HI Christianity, Law and Society 26L/S**

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.

Recommended preparation: SMC203YI

**SMC305HI Christianity and Popular Culture 39L**

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.

Recommended preparation: SMC200YI

**SMC306HI Christianity and New Technologies 26L, 13S**

Technology represents a significant challenge to Christian traditions. This course will explore Christian responses to technologies such as genetic engineering, cyberspace, and life extension. Students will examine the metaphysical perspectives and metaphorical images that the Christian tradition presents to respond to the claims of unbridled technology.

Exclusion: RLG 338YI

Recommended preparation: SMC 230YI

**SMC307YI Scripture in Christian Tradition 52L, 26T**

An introduction to the place and meaning of the Bible within the Christian tradition; the practice of biblical interpretation in the patristic, medieval and modern periods; a contemporary reading of one of the Gospels and of a letter of Paul.

**SMC308HI Marriage and the Family in the Catholic Tradition (formerly Marriage and the Family in Canon Law) 26L/S**

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.

Recommended preparation: SMC203YI/304HI

**SMC309HI Christianity, Reason and Revolution 26L, 13T**

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.

Recommended preparation: SMC203YI/HIS241HI

**SMC310HI The Catechism of the Catholic Church 26S**

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.

**SMC311HI Why the Church 26S**

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.

Recommended preparation: SMC103YI/200YI/201HI, 205HI/216YI

**SMC312HI Catholicism and Education 26S**

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.

**SMC313HI Catholic Education in Ontario 26L**

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.

**SMC320HI The Catholic Church in Canada 26L  
(formerly SMC 420HI)**

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.

Exclusion: SMC 420HI

**SMC321HI The Catholic Church and 26S  
Canadian Law**

The Church's self-understanding generates interesting problems in her relations with the civil societies in which she lives. These problems are often fruitful and leaves marks in the legislation of each of these societies. The proposed course will assess the extent to which this has been true in Canada, from the earliest days of European expansion until the present. After an historical introduction regarding the legal status of the Church in French and post-conquest Canada, the proposed course will study the current legal treatment of Church activity, institutions, and property. The legal treatment of criminous clerics will also be examined.

Recommended preparation: SMC203YI

**SMC330YI Christ in Christian Tradition 52L, 26T**

Faith in Christ is central to Christianity. This course examines both classical formulations of that faith and Enlightenment critiques of them. It introduces students to contemporary rethinking of christology in the light of modern science and philosophy, comparative religion, feminism, and liberation movements.

**SMC332HI Apocalypse and Millennium 26L  
(formerly SMC 402HI)**

The study of past outbursts of Christian interest in the millennium theme, and the end of the world, modern manifestations of this trend, and the implications of its contemporary revitalization at the dawn of the third millennium.

**SMC362YI Intercordia 26S 26P**

Service learning course in social justice and international development. Seminars in the Winter term and international service with Intercordia Canada between May and July. There will be additional costs to students associated with this program. Duration is January to August; all add/cancel/refunds deadlines as per a regular S course.

Prerequisite: interview process prior to enrolment

Recommended preparation: SMC103YI/SMC203YI/SMC205HI

**SMC370HI Christianity and the Life Sciences 26L/S**

Episodes and issues in the development of the life sciences in relation to fundamental Christian beliefs concerning nature, man and God: behaviour and intelligence, gender, genetics and the manipulation of life, creation/evolution controversy, etc.

Prerequisite: Four university courses

**SMC371HI Faith and Physics 26L/S**

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: Four university courses

**SMC390YI Independent Studies in 26L/S  
Christianity and Culture**

A concluding course in Christianity and Culture, providing an opportunity to synthesize insights acquired during the course of the program (enrolment subject to availability of a supervisor).

Prerequisite: Written approval of Program Director

**SMC391HI Independent Studies in 26L/S  
Christianity and Culture**

**SMC400HI Advanced Topics in 26L/S  
Christianity and Culture I**

Prerequisite: Two courses in Christianity and Culture

**SMC401HI Advanced Topics in 26L/S  
Christianity and Culture II**

Prerequisite: Two courses in Christianity and Culture

**SMC417HI Methods in Biblical Studies I 26L, 13T**

A survey of the religious traditions of ancient Israel as they are reflected in the diverse types of literature found in the First Testament, with emphasis on their historical development and their relevance for contemporary scholarship. Topics to be considered include: Israelite origins, settlement in the land, social structures, the monarchy, prophecy, the exile and return.

Prerequisite: SMC307YI

**SMC418HI Methods in Biblical Studies II 26L, 13T**

Introduction to the major methods and issues in New Testament interpretation: textual criticism; the world of the New Testament; the composition, structure and theologies of the Synoptic Gospels; the Jesus of History and the Christ of Faith.

Prerequisite: SMC307YI

**SMC419HI Religious Pluralism and 26S  
the Church**

This course will examine Christian responses to religious pluralism, focusing particularly upon twentieth-century developments in comparative theology, theology of religions, and inter-religious dialogue. Although the course will focus on examples from the context of post-Vatican II Catholicism, students will have opportunities to study comparable developments outside this tradition.

Prerequisite: Completion of 10 full-course credits

Recommended preparation: SMC103YI/SMC330YI

**SMC421HI Jews and Judaism in 26S  
Christian Traditions**

A seminar devoted to examining the changing representation of Jews and Judaism within Christian traditions over the past two thousand years.

Prerequisite: Completion of 10 full-course credits

Recommended preparation: SMC200YI

**SMC422HI Sacred Space in the Christian 26S  
Tradition**

An examination of the development of sacred space in the early Church, reflection upon its place in the imaginative landscape of the European Middle Ages, and discussion of its implications for the understanding of space and place in our own culture.

Prerequisite: One course in the History of Christianity; completion of 10 full-course credits

Recommended preparation: SMC200YI

**SMC423HI Topics in the Theology of Culture I 26S**

A seminar course engaging in theological reflection on and response to the shifting cultural realities of the twenty-first century. Topics for close examination may include: post-modernity, home and homelessness, and mass popular culture.

Prerequisite: Completion of 10 full-course credits

Recommended preparation: SMC200YI/208YI/305HI/330YI/426HI

**SMC424HI Topics in the Theology of Culture II 26S**

A seminar course engaging in theological reflection on and response to the shifting cultural realities of the twenty-first century. Topics for close examination may include: post-modernity, home and homelessness, and mass popular culture.

Prerequisite: completion of 10 full-course credits

Recommended preparation: SMC200YI/208YI/305HI/330YI/426HI

**SMC425HI Uses of the Bible in the Middle Ages 26S**

An examination of the use of the Bible in the mediaeval period (500-1500) as source of motifs in art and architecture, provider of stories for poetry and drama, authority in legal and political debate, and tool for teaching and preaching.

Prerequisite: One course in mediaeval history, art or literature; knowledge of the biblical text; completion of 10 full-course credits

**SMC426HI The Social Justice Seminar 26S**

A research seminar to explore the foundational principles and historical applications of Catholic social teaching since *Rerum novarum*. Special emphasis placed on scriptural texts, magisterial documents, and contemporary case studies. Integral to the course is a major paper based on primary source research.

Prerequisite: SMC203YI/103YI; completion of 10 full-course credits

Recommended preparation: SMC309HI/RLG336HI

**SMC427HI Public Justice Advocacy Seminar 26S**

A course which explores, through lectures, seminar meetings and an agency placement, the ways in which Christian social teaching is translated into public advocacy and policy.

Prerequisite: completion of 10 full-course credits

Recommended preparation: SMC203YI or SMC309HI or SMC426HI

**SMC428HI The Spiritual in Modern Art 26L**

An examination of key moments and figures in the recent history of the visual arts in Western culture and especially in Canada in which religious and spiritual themes surface in new and surprising ways. The course includes a study of works in the Donovan Collection at St. Michael's College.

Recommended Preparation: SMC 200YI

**SMC429HI Topics in Comparative Theology 26S**

In the 20<sup>th</sup> and 21<sup>st</sup> centuries, religious thinkers increasingly cross religious boundaries in theological reflection. Each year, this seminar will focus on one topic, studied in confessional and comparative perspective, or on two or three major figures in the discipline of comparative theology. Sample topics include: salvation, mission, God, incarnation.

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**Christianity & Culture: Major Program in Religious Education Courses**

**JSV200HI Communication and Conflict Resolution in Education 26L**

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. Prerequisite: Enrolment in Christianity and Culture CTEP Major or Victoria College CTEP Education Minor

**SMC271HI Equity and Diversity in Education 26L**

The course focuses on raising awareness and sensitivity to equity and diversity issues arising in schools and cultural communities. It examines how oppression works, and how cultural and educational resources may be brought to bear on reducing oppression and improving equity. The course includes a 20-hour field experience.

Prerequisite: Enrolment in Christianity and Culture CTEP Major Exclusion:VIC260HI

**SMC272HI Child and Adolescent Development in Education 26L**

The course will provide an overview of developmental psychology from early childhood to late adolescence in relation to education, including: cognitive, social, emotional, moral, physical, religious and language development. It will examine various influences (family life, schooling and culture, etc.). This course includes a 20-hour field experience.

Prerequisite: Enrolment in Christianity and Culture CTEP Major Exclusion:VIC261HI

**SMC471HI Internship**

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. Those wishing to take this course must have their program approved by the Program Director. Prerequisite: Enrolment in Christianity and Culture CTEP Major

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**Mediaeval Studies Courses**

**SMC210YI The Mediaeval Tradition 52L, 26T**

This course provides an introduction to the thought and culture of the European Middle Ages. Students are introduced to the important monuments of mediaeval History, Thought, Literature, and Art, and follow some of the common threads that run through all these disciplines. The course explores some of the classical antecedents and chief expressions of mediaeval life and thought.

**SMC211HI The Middle Ages and the Movies 26L, 13T**

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.

**SMC322HI Mediaeval Latin I 39S**  
(formerly LAT322HI)

A survey of the prose and poetry of the Middle Ages with emphasis on the linguistic features of mediaeval Latin.  
Prerequisite: LAT202HI

**SMC323HI Mediaeval Latin II 39S**  
(formerly LAT323HI)

Study of a wide variety of mediaeval Latin texts.  
Prerequisite: LAT202HI

**SMC357HI The Mediaeval Child 26L**

This course examines birth, nourishment, education and death of children in the Middle Ages. What was it like to be a mediaeval boy or girl? What kind of relationship did children have with their parents, with their teachers, or with other children? Primary sources are examined and interdisciplinary methods employed.  
Recommended preparation: SMC210YI/HIS220YI

**SMC358HI The Mediaeval Book 26S**

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.  
Recommended preparation: LAT100YI; SMC210YI or a course in mediaeval history.

**SMC359HI Mediaeval Theology 26L**

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.  
Recommended preparation: SMC210YI

**SMC360HI Vernacular Literature of the Middle Ages 26L**  
(formerly SMC420HI)

This course surveys mediaeval vernacular literature within the cultural context of Europe and considers the development of different literary genres such as epic, romance and lyric. Relations between vernacular literatures, and between vernacular and latin literature are also studied.  
Recommended preparation: SMC210YI  
Exclusion: SMC420HI

**SMC361HI Mediaeval Law 26S**  
(formerly SMC405HI)

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.  
Recommended preparation: HIS 220YI/SMC 210YI  
Exclusion: SMC405HI

**SMC402HI Mediaeval Canon Law 26S**

The rise of the science of canon law is one of the great intellectual developments of the High Middle Ages. In the proposed course, the aims and techniques of the canonical jurists would be explored by a close reading of their normative texts and glosses.  
Recommended preparation: HIS220YI/SMC203YI/SMC210YI

**SMC403HI The Mediaeval Church 26S**

This seminar explores the development of some of the institutions of mediaeval Christendom, such as guilds, the University and the Papacy, in relation to social and intellectual movements of the age.  
Recommended preparation: SMC210YI/HIS220YI

**SMC406HI Mediaeval Seminar II 26S, 13T**

A fourth-year seminar on a topic to be determined annually.  
Prerequisite: Permission of the instructor  
Recommended preparation: SMC210YI or other medieval courses

**SMC407YI Mediaeval Seminar I 52S, 26T**

A fourth-year seminar on a topic to be determined annually.  
Prerequisite: Permission of the instructor  
Recommended preparation: SMC210YI or other mediaeval courses

**SMC490YI Senior Essay in Mediaeval Studies TBA**

A scholarly project chosen by the student in consultation with an instructor and approved by the Program Co-ordinator. Arrangements for the choice of topic and supervisor must be completed by the student before registration.

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## Other St. Michael's College Courses

**SMC299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.



# Slavic Languages and Literatures

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## Faculty

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### Professors Emeriti

C.H. Bedford, MA, Ph D  
G. Bisztray, MA, Ph D  
B. Budurowycz, MA, BLS, Ph D  
L. Dolezel, Ph D  
K.A. Lantz, MA, Ph D  
R. Lindheim, MA  
R.H. Marshall, Ph D  
N. Pavliuc, MA, Ph D  
C.V. Ponomareff, MA, Ph D  
R.D.B. Thomson, MA, D Phil  
N.N. Shneidman, MPHE, MA, Dip REES, Ph D

### Professor and Chair of the Department

C. Kramer, MA, Ph D

### Associate Professor and Graduate Coordinator

T. Trojanowska, MA, Ph D

### Assistant Professor and Undergraduate Coordinator

T. Koznarsky, Ph D

### Professors

C.J. Barnes, MA, Ph D  
D.T. Orwin, MA, Ph D

### Associate Professors

V. Ambros, MA, Ph D  
R. Bogert, MA, Ph D  
L. Livak, MA, Ph D  
J. Schallert, Ph D  
M. Tarnawsky, Ph D

### Assistant Professors

Julia Mikhailova, MA, Ph D  
S. Young, MA, Ph D

For over one thousand years the countries of the Slavic world 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 the Slavic cultures has a special significance for Canada, since the vast influx of Slavs, which began in the last century, has contributed greatly to the Canadian cultural mosaic.

The Department of Slavic Languages and Literatures offers an extensive range of courses in Russian, Polish, Ukrainian, Czech and Slovak, Croatian, Serbian, and Macedonian languages and literatures, as well as in Slavic linguistics. Within this range there are courses suitable for inclusion in a wide variety of programs of study, whether or not the student has studied any Slavic language previously. Some students may specialize in Slavic Languages and Literatures, i.e. Russian, Polish or Ukrainian (see Programs of Study). Others may simply wish to gain a working knowledge of Russian or another Slavic language to aid their reading of important material in another field. Language study emphasizes small instructional groups, with some laboratory or conversational practice, and the use of literary materials.

Courses in the literatures and cultures of various Slavic countries explore the artistic, intellectual, and social currents of their civilizations, trace the literary history of each country, and examine the works of major authors. To encourage an awareness of the significance and pertinence of Slavic literatures and cultures, many of our courses are offered in translation.

The growing importance of Eastern Europe in contemporary affairs has had the effect of making academic study of this area especially lively and relevant. The student whose interest in the Russian or East European world is political, historical, or sociological can specialize in Russian and East European Studies, or pursue a course in Political Science, History, or Sociology, and at the same time take language courses, and perhaps selected courses in literature, in this Department. Students planning to specialize in Economics, Psychology, Mathematics, or any number of other fields, who have a special interest in the Russian or East European area, will find an advanced knowledge of Russian or of another Slavic language an important intellectual and professional asset.

Students intending to take a Program offered by the Department are asked to study carefully the Programs of Study and are urged to begin their language training as soon as possible. A Departmental brochure is available on request.

Undergraduate Secretary:  
Professor Joseph Schallert, 121 St. Joseph Street, Room 419,  
joseph.schallert@utoronto.ca, 416-926-1300, ext. 3246.

Web site: [www.utoronto.ca/slavic](http://www.utoronto.ca/slavic)

## Slavic Languages and Literatures Programs

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Enrolment in the Slavic Languages and Literatures programs requires the completion of four courses; no minimum GPA required.

### Croatian And Serbian Studies (Arts program)

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#### Major program:

(6 full courses or their equivalent)

1. SLA 307Y1 or SLA 316Y1. Prerequisite for SLA 307Y1 is SLA 207Y1 or equivalent knowledge. Prerequisite for SLA 316Y1 is SLA 237Y1 or equivalent knowledge. SLA207Y1 or SLA237Y1, if taken, also count toward the program requirements.
2. SLA 217Y1 or SLA 227Y1
3. A minimum of two full courses or equivalent from: SLA 217Y1, 227Y1, 327H1, 337H1, 347H1, 407H1, 417H1, 427H1
4. Additional courses needed to satisfy requirements. Students may choose SLA 202H1, SLA 330Y1, or courses related to Croatian and Serbian studies offered in other departments and approved by the undergraduate coordinator of the Slavic Department.

#### Minor program:

(4 full courses or their equivalent)

Four approved courses from the offerings indicated in the major program above.

# Slavic Languages and Literatures

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## Czech And Slovak Studies (Arts program)

### Major program:

(6 full courses or their equivalent)

First Year:

SLA 205YI

Higher Years:

1. SLA 305YI
2. Four courses from: HIS 251YI; SLA 215HI, 225HI, 404HI, 405HI, 425YI, 435HI, 445HI, 455HI, 465HI, 475HI

### Minor program:

(4 full courses or their equivalent)

1. SLA 205YI/305YI
2. Three courses from: HIS 251YI; SLA 215HI, 225HI, 305YI, 404HI, 405HI, 425YI, 435HI, 445HI, 455HI, 465HI, 475HI

## Polish Language And Literature (Arts program)

### Major program:

(6 full courses or their equivalent)

First Year:

SLA 106YI

Higher Years:

1. SLA 206YI, 216YI, 306HI, 336HI
2. Two courses from: SLA 226HI, 346HI, 356HI, 406YI/406HI, 416YI, 424HI, 436HI, 446HI, 476HI

### Minor program:

(4 full courses or their equivalent)

1. SLA 106YI/206YI, 216YI
2. Two other Polish offerings, including at least one 300+ series course

## Polish: see also Modern Languages And Literatures: Linguistics And Languages

## Polish Studies (Arts program)

### Major program:

(7 full courses or their equivalent)

1. A sequence of two of the following language courses, depending on the student's skill level:
  - a) SLA 106YI, 206YI;
  - b) SLA 206YI, 306HI/336HI
  - c) SLA 306HI/336HI, 346HI/356HI/SLA 216YI
3. HIS 353YI
4. Three courses chosen from groups A and B below:

#### Group A: Slavic

SLA 226HI, 346HI, 356HI, 406YI/406HI, 416YI, 436HI, 446HI, 476HI

#### Group B: History

HIS 251YI, 433HI, 461HI

### Minor program:

(4 full courses or their equivalent)

1. A sequence of two of the following language courses, depending on the students skill level:
  - a. SLA 106YI, 206YI;
  - b. SLA 206YI, 306HI/336HI;
  - c. SLA 306HI/336HI, 346HI/356HI

2. SLA216YI

3. HIS 353YI

## Russian Language And Literature (Arts program)

### Specialist program:

(9 full courses or their equivalent including at least one full course at the 400-level)

First Year:

SLA 100YI

Higher Years:

1. SLA 220YI, 240HI/241HI, 320YI, 339HI, 340HI, 420YI
2. Three courses from: SLA 234HI, 244HI, 250YI, 252HI, 302HI, 311HI, 312HI, 314HI, 315HI, 317HI, 321YI, 330YI, 331HI, 332HI, 343HI, 344HI, 351H, 367HI, 370HI, 402HI, 403HI, 415HI, 420YI, 423HI, 433HI, 440HI, 441HI, 449HI, 450H, 451HI, 452YI, 460HI, 461HI, 462HI, 464HI

### Major program:

(7 full courses or their equivalent)

First Year:

SLA 100YI

Higher Years:

1. SLA 220YI, 240HI/241HI, 320YI, 339HI, 340HI
2. Two courses from: SLA 234HI, 244HI, 250YI, 252HI, 302HI, 311HI, 312HI, 314HI, 315HI, 317HI, 321YI, 330YI, 331HI, 332HI, 343HI, 344HI, 351H, 367HI, 370HI, 402HI, 403HI, 415HI, 420YI, 423HI, 433HI, 440HI, 441HI, 449HI, 450H, 451HI, 452YI, 460HI, 461HI, 462HI, 464HI

NOTE: Students with OAC Russian or equivalent will take the language sequence SLA 220YI, 320YI, 420YI.

### Minor program:

(4 full courses or their equivalent)

Any combination approved by the Department of two Russian language courses and two courses in Russian literature, including at least one course at the 300+series level

## Russian Language (Arts program):

### Minor program

(4 full courses or equivalent, including one 300+series course)

Four courses from: SLA 100YI, 220YI, 320YI, 321YI, 330YI, 420YI, 452YI

## Russian - See also Modern Languages And Literatures, Linguistics And Languages

## Russian Literature in Translation (Arts program)

### Minor program:

Four full courses or their equivalent, including one 300+ series course.

1. SLA240HI and 241HI
2. SLA339HI and 340HI
3. Two additional approved full-course equivalents in Russian literature and/or culture.

# Slavic Languages and Literatures

## Slavic Languages (Arts program)

Consult Department Of Slavic Languages And Literatures

### **Specialist program:**

(11 full courses or their equivalent, including at least one 400-series course)

LIN 100Y1 and approved first courses in any two Slavic languages

Higher Years:

1. LIN (228HI, 229HI)/(231HI/232HI); SLA 330Y1
2. Remainder of 3-year sequences in the two Slavic languages
3. Two courses from: SLA 425Y1, 430Y1, 438HI, 452Y1, 468HI chosen to correspond with the Slavic languages studied

## Slavic Languages and Literatures (Arts program)

Consult Department of Slavic Languages and Literatures

### **Specialist program:**

(14 full courses or their equivalent, including at least one 400-series course from any TWO of Groups A, B, C above)

#### **A. Russian**

First Year:

SLA 100Y1

Higher Years:

1. SLA 220Y1, 240Y1, 320Y1, 339HI, 340HI
2. Two courses from: SLA 234HI, 244HI, 250Y1, 252HI, 311HI, 312HI, 314HI, 315HI, 317HI, 321Y1, 330Y1, 331HI, 332HI, 343HI, 344HI, 351H, 367HI, 370HI, 402HI, 403HI, 415HI, 420Y1, 423HI, 433HI, 440HI, 441HI, 449HI, 450H, 451HI, 452Y1, 460HI, 461HI, 462HI, 464HI

#### **B. Polish**

First Year:

SLA 106Y1

Higher Years:

1. SLA 206Y1, 216Y1, 306HI, 336HI, 406HI/406Y1, 416Y1
2. Two courses from: SLA 226HI, 330Y1, 346HI, 356HI, 406HI/406Y1, 416Y1, 436HI, 446HI, 476HI

#### **C. Ukrainian**

First Year:

SLA 108Y1

Higher Years:

1. SLA 208Y1, 308Y1
2. Four courses from: SLA 218Y1, 228HI, 238HI, 248HI, 253HI, 318HI, 328HI, 330Y1, 408HI, 418HI, 419Y1, 428Y1, 429HI, 438HI, 448HI, 458HI, 468HI

## Ukrainian Language And Literature (Arts program)

Consult Department of Slavic Languages and Literatures.

### **Specialist program:**

(9 full courses or their equivalent, including at least one 400-series course)

First Year:

SLA 108Y1

Higher Years:

1. SLA 208Y1, 218Y1, 308Y1, 438HI, 468HI

2. Four courses, including at least one at the 300+level., from: SLA 228HI, 238HI, 248HI, 253HI, 318HI, 328HI, 330Y1, 408HI, 418HI, 419Y1, 428Y1, 429HI, 448HI, 458HI. Courses in Ukrainian history may also be counted toward this programme.

### **Major program:**

(6 full courses or their equivalent)

SLA 108Y1

Higher Years:

1. SLA 208Y1, 218Y1
2. Three courses, including at least one at the 300+level., from: SLA 228HI, 238HI, 248HI, 253HI, 308Y1, 318HI, 328HI, 408HI, 418HI, 419Y1, 428Y1, 429HI, 438HI, 448HI, 458HI, 468HI. Courses in Ukrainian history may also be counted toward this programme.

### **Minor program:**

(4 full courses or their equivalent)

1. SLA 218Y1
2. Three Ukrainian courses, including one language course and at least one course at the 300+level. One course in Ukrainian history may also be counted toward this programme.

## Ukrainian - See Also Modern Languages And Literatures; Linguistics And Languages

## Slavic Languages and Literatures Courses

See page 33 for Key to Course Descriptions.

(Croatian; Czech & Slovak; Macedonian; Polish; Russian; Serbian; Slavic Linguistics; Ukrainian)

For Distribution Requirement purposes (see page 27), all SLA courses are classified as HUMANITIES courses.

### **Note**

The Department reserves the right to place students in the language course best suited to their linguistic preparation.

#### **HUM199HI/YI First Year Seminar**

**52S**

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

#### **SLA202HI Jewish Communities in Slavic Countries**

**26L**

Literature about the Jewish community in Slavic countries. How do these Jewish minorities perceive and identify themselves? How are they perceived by others?

#### **SLA251HI Origins of Slavic Civilization**

**26L**

Surveys the history, archaeology, anthropology, religions, literature, architecture, and art of the Slavs from their pre-historic origin to the Baroque era. Examines the rise of the medieval Slavic nations, states, churches, and cultures; Scythian, Greco-Roman, Byzantine, Western European, and Oriental influences. Lectures are richly illustrated with slides.

# Slavic Languages and Literatures

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**SLA253HI East Slavic Civilizations to the 18th Century 26L**

A survey of East Slavic civilizations through art, architecture, literature and religion. Includes the Scythians, whose battle skills and gold fascinated the ancient world; Kyivan Rus' and its princes, monks and martyrs; the rise of the Cossacks; and Peter the Great, founder of the Russian Empire and St. Petersburg. Lectures, with emphasis on visual presentation. Readings in English.

**SLA254HI Stone Books to Sky Books: Book as Institution, Commerce and Art in the Slavic Tradition 13L, 13S**

Evolution of book and written/printed media in the Slavic world: legends (and forgeries) of ancient letters, mediaeval illuminated manuscripts, baroque visual poetry, pocket books for enlightened ladies and peasant comic strips, futurist painting and writing on faces, hand-written and painted books of the modernist artists and poets. Readings in English.

**SLA299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**SLA302HI The Imaginary Jew 39S**

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.

**SLA380HI Language, Politics and Identity 26S**

Examines the multi-faceted nature of languages by comparing issues of language contact and conflict in the Former Soviet Union and in Central and Southeastern Europe. Explores issues such as language standards, language rights, language conflict, and linguistic identity.

Recommended preparation: Knowledge of at least one Slavic language is recommended.

**SLA395YI Readings in Slavic Literature 52S**

This course examines a special topic in Slavic Literature. The topic varies from year to year. Consult the department for more details.

**SLA396HI Readings in Slavic Studies 26S**

This course examines a special topic in Slavic Studies. The topic varies from year to year. Consult the department for more details.

**SLA398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**SLA422YI History into Literature: Jaan Kross and the 20th Century East European Historical Novel 26L, 26S**

A seminar focused on contemporary Estonian novelist Jaan Kross (1920- ), whose historical fictions of the distant past resonated analogically with Soviet realities. East and West European traditions of historical fiction; questions of national identity, cultural diversity, and postSoviet challenges to revisioning the past. Readings (in English) also include Pushkin, Tolstoy, Tynianov and Sienkiewicz.

**SLA424HI Theatre and Cinema in Extremis 26L, 26P**

A study of the effects on aesthetic form of the totalitarian experience in Russia, Poland and Czechoslovakia. The Russian, Polish, and Czech avant-garde, poised between the bankruptcy of traditional aesthetics and the search for new forms in the post-revolutionary/post-Holocaust world. Co-taught course. Readings in English. (Offered every three years)

Exclusion: SLA424YI

Recommended preparation: Prior completion of a course in drama or cinema

**SLA 453HI Women in East European Fiction 26S**

In East European literary texts of the post 1990 era, this course examines connections and disconnections between gender and social change, and women's resistant and compliant discourses on war, nationalism, reproduction, the fictional representation of rape as a war crime, and women writers' responses to postcommunist eroticism and feminisms. All readings in English.

**SLA476HI Revolution in the Theatre: Stanislavski, Meyerhold, Grotowski, and Kantor 39S**

Theoretical thought and theatre practice of these directors are placed within a context of theatre reforms in the 20th century, from naturalism and symbolism, through retheatricalization of theatre, to a ritualistic and mythic holy theatre. Readings in English.

Prerequisite: Permission of instructor

**SLA477HI Performance: Theory and Practice 26S**

This course begins with selected theoretical approaches to performance. It then focuses on the examples of major European artists and performances of the 20th and 21st centuries and their impact on our understanding of contemporary staging practices. Eventually, these theories and practices are used for different forms of analysis of the selected performances, including live productions in Toronto theatres.

**SLA485HI Laughter and Forgetting in Milan Kundera 26S**

Laughter and forgetting is a recurrent theme in both Kundera's fictional and essayistic work. This class will examine the variations of this topic in Kundera's work and discuss the prosaic, dramatic and essayistic texts of his Czech period and attempt to place Kundera within the European context of the 'art of fiction'. All readings in English.

**SLA498YI Independent Studies**

A scholarly project on an approved literary or linguistics topic supervised by one of the Department's instructors.

Prerequisite: Permission of the Department

**SLA499HI Independent Studies**

A scholarly project on an approved literary or linguistics topic supervised by one of the Departments instructors.

Prerequisite: Permission of the Department

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## Croatian and Serbian Courses

**SLA207YI Elementary Serbian 104P**

Basic phonology, morphology and sentence structure. Composition, oral practice and readings from Serbian literature. Open only to students with little or no knowledge of Serbian. (Offered in alternate years)

# Slavic Languages and Literatures

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**SLA217YI Serbian Cultural History 52L**  
(formerly SLA217HI)

A survey of culture in literature, film and the fine arts from the coming of the Serbs to Southeastern Europe until World War I. The legacy of Byzantium and Rome; the Middle Ages; the Baroque Enlightenment; the Serbian National Revival; Romanticism, Realism, and Modernism. Readings in English. Exclusion: SLA217HI

**SLA227YI Croatian Cultural History 52L**  
(formerly SLA227HI)

A survey of culture in literature, film and the fine arts from the coming of the Croats to Southeastern Europe until World War I. The Greek and Latin heritages; the medieval Croatian State; Humanism and Reformation among the Croats; the Dalmatian Renaissance and Baroque; the Illyrian Movement and Croatian National Revival; Romanticism, Realism, and Modernism. Readings in English. Exclusion: SLA227HI

**SLA237YI Elementary Croatian 104P**

Basic phonology, morphology and sentence structure. Composition, oral practice and readings from Croatian literature. Open only to students with little or no knowledge of Croatian. (Offered in alternate years)

**SLA307YI Advanced Serbian 104P**

Systematic study of orthography and syntax. Advanced composition and oral practice. Reading and translation of more complex texts from Serbian writers. (Offered in alternate years) Prerequisite: SLA207YI or equivalent knowledge of the language

**SLA316YI Advanced Croatian 104P**

Systematic study of orthography and syntax. Advanced composition and oral practice. Reading and translation of more complex texts from Croatian writers. (Offered in alternate years) Prerequisite: SLA237YI or equivalent knowledge of the language

**SLA327HI The Balkan Short Story 26S**

Studies of short stories written since 1950. Focus on innovative writers and current trends. Readings in the original and English.

**SLA337HI Political Drama from 26S**  
**Dubrovnik to the Danube**

Classic plays from the Renaissance to the present studied in reference to the contemporary national, ethnic and ideological background of south-eastern and central Europe.

**SLA347HI South Slavic Folklore 26S**

Historical and stylistic study of the customs, oral lore and traditions among pagan, Roman Catholic, Eastern Orthodox and Moslem Slavs. The role of folklore in the ethnogenesis of national culture. Readings in the original and English.

**SLA407HI Modern Croatian Bards 26S**

Verse since 1900 by the major poets of the nation. Focus on the Croatian Moderna, Expressionism and other Avant-Garde movements. Readings in Croatian and English.

**SLA417HI Modern Serbian Bards 26S**  
(formerly SLA407HI)

Verse since 1900 by the major poets of the nation. Focus on the Serbian Moderna, Expressionism and other Avant-Garde movements. Readings in Serbian and English. Exclusion: SLA407HI

**SLA427HI Bosnian, Croatian and 13S, 13P**  
**Serbian On Film**

Bosnian, Croatian, and Serbian studied through film. Cultural and linguistic comprehension of scenario texts and inter-active screenings of classic films from the 1950s to the present. Oral and written exercises in speech patterns, appearance, behaviour and cultural attitudes. Films subtitled in original language. Elementary language knowledge is required. Recommended preparation: SLA307Y or SLA326Y

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## Czech Courses

**SLA105YI Elementary Czech 104P**

Grammar, composition, and conversation. Readings from Czech literature. Open only to students with little or no knowledge of the language.

**SLA204YI Intermediate Czech 104P**  
(formerly SLA205HI)

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: SLA205HI

**SLA215HI Czech and Slovak Cultures 26L**  
(formerly SLA215YI)

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: SLA215YI

**SLA225HI The Czech and Slovak Cinema 26S, 13P**

From the "New Wave" of the 60s to the present. The films of major directors - Forman, Menzel, Chytilová - and of talented newcomers. Screening of films censored and prohibited over the last 25 years. English subtitles. (Offered every three years)

**SLA305HI Advanced Czech 104S**

Morphology, syntax, composition and translation, oral practice. Contemporary Czech texts representing diverse styles. Prerequisite: SLA205YI

**SLA404HI From The National Revival to 26S**  
**Modernism: Czech Literature of the 19th Century**

Beginning with the forged manuscripts of the early 19th century this course examines Czech Romanticism, Realism and Symbolism within the context of European culture. Readings include works by Macha, Nimcova, Neruda, Zeyer, Havliek Borovsky. (Offered every three years). Readings in Czech and Slovak.

Prerequisite: SLA305YI or permission of the instructor  
Exclusion: SLA405YI

**SLA405HI On the Waves of the 52S**  
**Avant-garde and Beyond:**  
**Czech Literature of the 20th Century**

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 apek, F. Langer, V. Nezval, M. Kundera, V. Linhartová and others. (Offered every three years). Readings in Czech.

Prerequisite: SLA305YI or permission of the instructor

# Slavic Languages and Literatures

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## **SLA425YI History of the Czech Literary Language 52S**

A study of original and translated works to trace the formation and development of the Czech literary language and to train students to differentiate literary styles, genres, and epochs. Readings include chronicles, sermons, travel accounts, dialogues and significant literary texts. (Offered every three years)  
Prerequisite: Permission of instructor

## **SLA435HI Readings in Czech and Slovak 52P**

Advanced students are presented with a variety of texts - literary, journalistic, scientific - tailored to their needs and interests. (Offered every three years)  
Exclusion: SLA435YI  
Prerequisite: Permission of instructor

## **SLA445HI Magic Prague 39S**

This class explores Prague as a meeting point of different cultures. Questions of centre and margin of multiculturalism and nationalism are discussed, based on texts by Jan Neruda, F. Kafka, M. Cvetaeva and others.

## **SLA455HI Czech Style and Syntax 39S**

Based on the theories of the Prague linguistic Circle this class explores selected concepts of Czech stylistics and syntax. Examples include a variety of literary styles, genres, and epochs. This is a Literature course that requires an advanced knowledge of Czech.

## **SLA465HI Czech Short Story 39S**

Introduces the problematics of public places and private spaces through various works of Czech writers from the 19th and 20th centuries. A variety of texts by modern Czech authors are explored through the prism of contemporary narrative theory. Special attention is paid to questions of differences in styles and epochs.

## **SLA475HI Modern Czech Drama 39S**

Introduces students to the most important plays of contemporary Czech authors. (This is graduate/undergraduate course)

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### **Macedonian Courses**

## **SLA109YI Elementary Macedonian 78P**

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)

## **SLA209YI Intermediate Macedonian 78P**

Systematic study of morphology. Reading and translation of more complex texts; more advanced composition; oral practice. (Offered in alternate years)  
Prerequisite: SLA109YI

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### **Polish Courses**

## **SLA106YI Elementary Polish 26L, 78P**

Basic vocabulary, essential morphology, simple sentence patterns. Regular language laboratory sessions. Reading of contemporary texts. Open only to students with little or no knowledge of the language.

## **SLA206YI Intermediate Polish 26L, 78P**

Intensive study of morphology; translation into Polish. Literary texts; oral practice.  
Prerequisite: Grade 13 Polish/SLA106YI

## **SLA216YI The Dynamics of Polish Literature and Culture: A Survey 52L**

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)

## **SLA226HI Postwar Polish Cinema 26L, 26P**

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)

## **SLA306HI Advanced Polish I 52P**

Syntax, word formation, and stylistics. Compositions and precis. Critical evaluation of literary works and articles in Polish. Extensive reading and translation. (Offered in alternate years)  
Prerequisite: SLA206YI

## **SLA336HI Advanced Polish II 52P**

Continuation of 306HI. A variety of cultural materials are used to advance skills in composition, translation, and conversation. Reading and discussion of literary and non-literary texts.  
Prerequisite: SLA306HI or permission of instructor

## **SLA346HI From Eastern Europe to European Union: Polish Postwar Culture 26S**

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: SLA216YI

## **SLA356HI What's New? Polish Culture Today 26S**

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 the perception of identity, history, and nationhood. The most recent literature, fine arts, music, and popular culture. Readings in English (Polish for majors).  
Recommended Preparation: SLA216YI

## **SLA406HI The Curtain Never Falls: Polish Drama and Theatre in Context (formerly SLA406YI) 26S**

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: SLA406YI

# Slavic Languages and Literatures

**SLA416HI Polish Fiction or a Disrupted Funeral of the Novel 26S**

Innovative reading of Polish fiction from the 18th to the 20th century. Study of narrative strategies, of the function of language and literary conventions, of various styles and poetics, of the issue of representation. In addition to the works of fiction (primarily novels, but also short stories), the reading list includes literary criticism and literary theory. Readings in English (in Polish for students in the major program). (Offered every three years)

**SLA436HI Rebels, Scoffers, and Jesters: Polish Culture from Different Perspectives 26S**

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: SLA336HI

**SLA446HI Polish Poetry 26S**

Polish literature is known for its exquisite poetry, from the works of Jan Kochanowski, Sep-Szarzynski, Adam Mickiewicz, Juliusz Slowacki, and C.K. Norwid, through the great modernists like Kasprowicz and Boleslaw Lesmian, to the postwar Polish School of Poetry of Czeslaw Milosz, Herbert, Tadeusz Rozewicz, Wislawa Szymborska, and Miron Bialoszewski. This course puts the canon of Polish poetry to a comparative, analytical, and re-interpretative test.

Prerequisite: SLA336HI or Permission of instructor

## Russian Courses

**SLA100YI Elementary Russian 130P**

The 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 judgement of the Department, qualify for entry into SLA 220Y1)

**SLA220YI Intermediate Russian 130P**

Continuation of morphology. Word formation, composition, and translation. Intensive reading of classical and contemporary literary texts. Oral practice. Not intended for native speakers. Prerequisite: Grade 13 Russian/SLA100Y1

**SLA231H0 Special Topics in Russian Studies TBA**

Usually offered during the summer through the Woodsworth Summer Abroad program. Content varies from year to year based on instructor.

**SLA234HI Russian and Soviet Cinema 13L, 26P**

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.

**SLA240HI New Forms For New Ideas, 1820-1860 26L, 13T**

A novel in verse (Pushkin's Eugene Onegin), a novel stitched from stories (Lermontov's Hero of Our Times); a mock epic (Gogol's Dead Souls), and others. Struggling with social change

and new ideas, Russian authors create unique works of fiction. Readings in English and, for majors, in the original. Offered alternate years.

**SLA241HI New Forms For New Ideas, 1860-1900 26L, 13P**

Fathers and Children (Turgenev), Crime and Punishment (Dostoevsky), The Cossacks (Tolstoy), Lady With A Dog (Chekhov): why do these great Russian works and others still have the power to fascinate and change us? Readings in English and, for majors, in the original. Offered alternate years.

Exclusion: SLA240Y1

Recommended Preparation: SLA240HI

**SLA244HI Studies in Film Genre I: Russian and Soviet Comedy 26S, 13P**

Russian film comedy from the early 20th century to the present. Films are analyzed stylistically and in the context of the theory of laughter. We examine silent comedy, the Soviet propaganda film, the Stalinist musical comedy, satirical film, and the black comedy. Cinema as medium of cultural dissent and witness to social change. Taught in English. Films have English subtitles. No prior knowledge of Russian required.

Recommended Preparation: SLA234HI

**SLA250YI Russian Cultural Heritage 52L**

A chronological multimedia survey of Russian culture from pre-Christian to post-Soviet times, emphasizing the clash between established authority and dissent, and tracing the conservative and radical currents in Russian literature and the arts, social thought and spirituality. Readings in English of classic poems, stories and novels, supplemented by videos and slides.

**SLA252HI Russian Short Fiction 26S**

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.

**SLA311HI Gogol 26S**

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 with various theoretical approaches. Includes cinematic (Taras Bulba, Viy, Overcoat) and musical (Ribsky-Korsakov's "Chirstmas Eve," Shostakovich's "Nose") re-creations of Gogol's works. All readings in English.

**SLA312HI Nabokov 26S**

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 writer's switch from Russian to English. Novels studied: Defense, Despair, The Gift, The Real Life of Sebastian Knight, Lolita, Pnin, Pale Fire. The course is taught in English. All readings are in English.

**SLA314HI Dostoevsky 13L, 13T**

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.

**SLA315HI The Russian Novel: Case Studies 26S**

One major Russian novel: its genesis, structure, artistic devices, and philosophical significance. Various critical approaches; cognate literary works. Students are expected to have read the

# Slavic Languages and Literatures

novel before the course begins. Consult the Department for title of novel. Readings in English. (Offered in alternate years)

**SLA317HI Tolstoy 26S**

War and Peace, Anna Karenina, and some shorter works. Tolstoy's political, psychological, and religious ideas as they shape and are shaped by his literary art. Readings in English.

**SLA320YI Advanced Russian 130S**

Syntax of the simple sentence. Problems in grammar and word formation. Composition, translation and conversation. Reading and discussion of literary and non-literary texts.

Prerequisite: SLA220YI; native speakers of Russian admitted only with permission of instructor

**SLA321YI Conversational Russian 78S**

Expansion of vocabulary and development of conversational skills. Readings and films stimulating discussion of Russian history, culture, art, and contemporary events and issues.

Exclusion: Native speakers of Russian

Prerequisite: SLA220YI and permission of instructor

**SLA 331HI Experiments and Revolutions in Art and Literature of the Late Russian Empire—Early Soviet Union 26S**

Painting, literature, and film from 1890–1930s. New revolutionary paths for the advancement of man and society through art. Symbolism, neoprimitivism, futurism, suprematism, and constructivism. Chekhov, Kandinsky, Bely, Stravinsky, Goncharova, Malevich, Tatlin, Eisenstein, and many others. All readings in English.

**SLA332HI Literature and Music in Russia 13L, 13S**

This course, on the interaction between artistic genres, introduces a series of Russian and other literary works of the 19–20th C that have inspired Russian musical masterpieces in the operatic, song, and symphonic repertoire. Texts are studied in translation. Basic Russian and musical literacy useful, but not obligatory.

**SLA339HI The Twilight of an Empire: Russian Art and Thought in the European Fin de Siècle 13L, 26T**

The course explores Russia's artistic and intellectual responses to social and cultural upheaval in the two decades preceding WWI. Students engage in a comparative study of modernist art and thought in Russia and Western Europe. Topics may include Symbolism and Decadence in literature (Sologub, Belyi, Huysmans, Wilde, etc.); the fin de siècle sensibility in Russian and West European thought (Solòv'ev, Rozanov, Nordau, Weininger); visual and plastic arts (Art Nouveau, Secession, World of Art), music, and film. Taught in English. All readings are in English. No prior knowledge of Russian language or culture is required.

**SLA340HI Narrative Revolution and Counterrevolution in 20th-Century Russian Prose 13L, 26T**

The course examines experimental approaches to story-telling and genre limitations in Russian prose, as well as conservative reactions to these experiments, from 1917 to the end of the USSR. Topics may include: formalism, expressionism, stylization, and avant-garde in the 1920s (I. Babel', M. Zoshchenko, Iu. Olesha, A. Remizov, D. Kharms, V. Nabokov); the esthetics of Socialist Realism; the prose of poets (M. Tsvetaeva, B. Pasternak, O. Mandel'shtam, VI. Khodasevich); underground and émigré memoirs (N. Mandel'shtam, E. Ginzburg, N. Berberova); genre

crossovers: documentary novels, fictional criticism (V. Grossman, Abram Terts, L. Tsympkin). Taught in English. All readings are in English. No prior knowledge of Russian language or culture is required.

**SLA343HI Post-Stalinist and Contemporary Russian Literature 13L, 13S**

A study of major books and writers of the last forty years (novels, short stories, verse) which are involved in the post-Stalin artistic and cultural liberation, the rediscovery of Russian literature's links with its own vital tradition, and development of a Russian brand of modern and 'post-modern' writing. (Readings in English)

**SLA344HI The Gulag in Literature 13L, 13S**

The experience of prison as reflected by Russian writers. The rise and persistence of the prison camp system; physical and spiritual survival; the literary value of the prison experience. Works (in translation) by Dostoevsky, Solzhenitsyn, Shalamov, Ginzburg and others.

**SLA351HI Language Practice TBA**

Development of writing and translating skills. For more advanced students including native speakers.

**SLA367HI Chekhov 26S**

Selected stories, plays; stylistic, structural, and thematic analysis, literary and historical context, influence in Russia and the West. Readings in English and, for Specialists in Russian, in the original. (Offered in alternate years)

**SLA370HI Russian Romantic Poetry 39S**

An introduction to Russian Romanticism through the major works of one or more poets (chosen variously from Pushkin, Lermontov, Tyutchev, Baratynsky, et al.). Close readings of lyric and narrative verse. The rudiments of Russian versification. Relations with Western European poets. All texts read in Russian.

Co-requisite: SLA320YI

**SLA402HI Advanced Russian Language Skills I 39S**

A series of translation exercises from English to Russian (and some from Russian to English) designed to expand students' ability to respond to and translate a variety of advanced prose texts in different styles and registers.

Prerequisite: SLA320YI or permission of the instructor

**SLA403HI Advanced Russian Language Skills II 39S**

This course follows on from SLA 402, which is, however, not a prerequisite for enrolment. The course provides complex and stylistically varied exercises in translation from Russian into English and vice versa, and should be of equal benefit to those with native Russian and native English.

Prerequisite: SLA320YI or permission of the instructor

**SLA415HI Studies in Russian Literature of the 18th Century 39S**

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



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<p><b>SLA420YI     Studies in Russian Syntax and Stylistics     130S</b></p> <p>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: SLA320YI; native speakers of Russian admitted only with permission of instructor</p>	<p><b>SLA450HI     Pushkin and His Age     26P</b></p> <p>Lyric poetry, poems, selected prose and Evgeny Onegin. Pushkin and the idea of a writer in the Russia of his time; his image as a national poet. Readings in Russian. Prerequisite: Permission of the instructor.</p>	
<p><b>SLA423HI     War and Peace (formerly SLA323HI)     39S</b></p> <p>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. (Offered in alternate years) Exclusion: SLA323HI Recommended Preparation: SLA 317HI</p>	<p><b>SLA460HI     Contemporary Russian Literature     26L</b></p> <p>Major writers and literary groupings of the past decade; the literary process in post-Soviet Russia. (Taught in Russian) Prerequisite: Permission of the instructor</p>	
<p><b>SLA433HI     Anna Karenina (formerly SLA324HI)     39S</b></p> <p>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. (Offered in alternate years) Exclusion: SLA324HI Recommended Preparation: SLA 317HI</p>	<p><b>SLA461HI     Literary Scandals in 20th Century Russia     26L</b></p> <p>An examination of twentieth-century literature through exploration of major literary scandals, including Blok/Bely, Mayakovsky, Voloshin, Zoshchenko/Akhmatova, the Nobel and Booker Prizes; how these illustrate tensions within literature and reveal the literary process. (Taught in Russian) Prerequisite: Permission of the instructor</p>	
<p><b>SLA440HI     Introduction to Russian 19th Century Poetry (formerly SLA440YI)     26S</b></p> <p>Starting with pre-Pushkinian Classicism this course surveys the development of Russian lyric verse (with some excursions also into narrative verse); major topics studied include: Pushkin, Russian Byronism, the Pushkin Pleiade, Nekrasov's civic verse; philosophical verse by Tyutchev; Impressionist and Decadent poets. Readings in Russian. Prerequisite: SLA320YI/340HI Exclusion: SLA440YI</p>	<p><b>SLA462HI     Russian Comic Fiction: Chekhov, Zoshchenko, Dovlatov     26S</b></p> <p>The characteristics and the tradition of Russian comic writing, from Chekhov's early stories to the Soviet "meshchanin" of Mikhail Zoshchenko and the émigrés of Sergei Dovlatov. (Taught in Russian)</p>	
<p><b>SLA441HI     Modern Russian Poetry     26S</b></p> <p>This course follows on from SLA440H, although the latter is not a prerequisite for enrolment. A chronological survey begins with Symbolist verse; special attention is devoted to Blok, Akhmatova, Mandelstam, Pasternak, Mayakovsky; other modernists studied include Tsvetaeva, Esenin, Zabolotsky; study of the post-Stalin revival begins with Voznesensky and Evtushenko, concluding with Iosif Brodsky. Readings in Russian. Prerequisite: SLA320YI or 340HI</p>	<p><b>SLA463HI     Themes in Russian Realism     26L</b></p> <p>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, and will read contemporary works of criticism or thought from Russia and Europe that may have influenced it. Prerequisite: The equivalent of one FCE in literature</p>	
<p><b>SLA449HI     Russian Thinkers     39S</b></p> <p>Social and political change, and national and spiritual destiny in the philosophical, journalistic and critical writings of nineteenth century Russia. From Slavophiles and Westernizers to anarchists, nihilists and revolutionary populists. Readings in English and, for Russian majors, in the original. Offered in alternate years.</p>	<p><b>SLA464HI     Studies in the Russian Novel     26L</b></p> <p>An examination of the most prominent Russian novelists of the last several decades, including Erofeev, Bitov, Sorokin and Azolsky. The genesis, structure, artistic devices and philosophical significance of their novels, critical approaches to them, cognate works. (Taught in Russian) Prerequisite: Permission of the instructor</p>	
<p><b>SLA451HI     Russian Acmeist Poetry     26S</b></p> <p>This course examines the Acmeist phenomenon, studying writings by Kuzmin, Gorodetsky, Narbut, Nadezhda Mandelstam and others, making a special study of Akhmatova, Mandelstam, Gumilev. Other topics include: critical reception of Acmeist writings, Acmeist poets' interaction with other contemporary writers, ideological and cultural aspects of the movement. All readings in Russian.</p>	<p><b>Slavic Linguistics Courses</b></p>	
	<p><b>SLA330YI     Old Church Slavonic     52S</b></p> <p>Structure and history. Reading and linguistic study of Old Slavonic texts. Prerequisite: Permission of instructor</p>	
	<p><b>SLA452YI     Structure of Russian     52S</b></p> <p>The phonology, morphology and syntax of contemporary standard Russian from a formal and semantic standpoint. Prerequisite: SLA320YI</p>	
	<p><b>Ukrainian Courses</b> Web site: <a href="http://www.chass.utoronto.ca/~tarn/courses/">www.chass.utoronto.ca/~tarn/courses/</a></p>	
	<p><b>SLA108YI     Elementary Ukrainian     104P</b></p> <p>Basic vocabulary, simple sentence patterns, essential morphology. Internet language laboratory drills. Intended for students with little or no knowledge of the language.</p>	
	<p><b>SLA208YI     Intermediate Ukrainian     104P</b></p> <p>Study of morphology through grammar drills; oral practice; reading of texts from Ukrainian literature.</p>	

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Prerequisite: Permission of instructor

**SLA218YI Ukrainian Literature and Culture 26L, 26S**

A general survey of Ukrainian culture through an examination of selected literary works and their social, political, historical, philosophical, and aesthetic context. The course covers the period from Kyivan Rus' to the present. Readings in English. (Offered in alternate years)

**SLA228HI 20th Century Ukrainian Fiction in Translation 13L, 13S**

A selection of twentieth century Ukrainian novels and short prose in English translation. From the intellectual novel of the 1920s, through socialist realism, to the new prose of the 1990s. Authors include Pidmohylny, Antonenko-Davydovych, Honchar, Shevchuk, Andrukhovych and Zabuzhko. (Offered in alternate years)  
Recommended preparation: any course in literature

**SLA238HI Literature of the Ukrainian-Canadian Experience 26S**

A selection of literary texts depicting or reflecting 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. (Offered in alternate years)  
Recommended preparation: any course in literature

**SLA248HI Women and Women's Themes in Ukrainian Literature 26S**

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.

**SLA308YI Advanced Ukrainian 104P**

Review of morphology and study of syntax. Short compositions based on literary and critical texts. Voluntary language laboratory.  
Prerequisite: Permission of instructor

**SLA318HI Kyiv-Kiev-Kijow: A City through Cultures and Centuries 26L**

A cultural history of the Ukrainian capital; Ukrainian, Russian, Polish and Jewish "versions" of the city; artworks and literary texts that capture the complexity of Kyivan history and culture. Readings in the original languages encouraged but not required.

**SLA328HI The Culture of Contemporary Ukraine 26S**

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.

**SLA408HI The Ukrainian Short Story 26S**

The development of the short story from Kvitka-Osnovianenko to the present day. All readings in the original. (Offered every four years)  
Prerequisite: Permission of instructor

**SLA418HI Ukrainian Drama 26S**

The development of Ukrainian drama from Kotliarevsky to the present day. All readings in the original. (Offered every four years)  
Prerequisite: Permission of instructor

**SLA419YI Ukrainian Poetry 52S**

A survey of Ukrainian poetry from Skovoroda to the present day. All readings in the original. (Offered every four years)  
Prerequisite: Permission of instructor

**SLA428YI The Ukrainian Novel 52S**

Major works by Kulish, Nechui-Levytsky, Myrny, Franko, Kotsiubynsky, Kobylanska, Vynnychenko, Ianovsky, Pidmohylny, Honchar, Andrukhovych, and Zabuzhko. Readings in Ukrainian. (Offered every four years)  
Prerequisite: Permission of instructor

**SLA429HI Shevchenko 26S**

A critical study of Taras Shevchenko. Life, works, and significance. Readings in Ukrainian.  
Prerequisite: Permission of instructor

**SLA438HI Style and Structure of Ukrainian 39S**

Beginning with an overview of the synchronic structure of Ukrainian (phonetics, phonology, morphology, syntax), the course introduces various styles of contemporary Ukrainian. Emphasis is on the practical usage of various styles. A number of sociolinguistic questions are examined: dialects, jargons, slang, and the language situation in contemporary Ukraine.  
Prerequisite: Permission of instructor

**SLA448HI Ukrainian Literature of the 17th and 18th Centuries 26S**

A survey of Ukrainian literature from the Renaissance to the National Revival: polemical literature, baroque poetry, school drama, religious and philosophical treatises, history-writing, dmy and satire. Major figures include Smotrytsky, Vyshensky, Prokopovych and Skovoroda. Works are read in modern Ukrainian and English translations.  
Prerequisite: Permission of instructor  
Recommended preparation: A 400-level course in Ukrainian literature

**SLA458HI Ukrainian for the 21st Century 39S**

This course introduces students to contemporary Ukrainian using approaches beyond grammar and traditional classroom interaction. Emphasis is on the enhancement of language skills in the context of contemporary Ukraine. Students develop practical skills based on traditional media as well as on multimedia resources, including those of the Internet.  
Prerequisite: Permission of instructor  
Recommended preparation: SLA208Y1, 308Y1

**SLA468HI Aspects of Literary Translation of Ukrainian 39P**

This course introduces the problems of written translation of literary works from Ukrainian into English: evaluation and comparison of existing translations, practical exercises; treatment of common difficulties in translating, various literary genres and styles, dialectical, social, generational and other subvarieties of language, as well as idiomatic and figurative language.  
Prerequisite: Permission of instructor  
Recommended preparation: SLA308Y1 or permission of instructor

## Faculty

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### Professors Emeriti

R.F. Badgley, MA, Ph D  
R. Breton, MA, Ph D, FRSC (SM)  
D.F. Campbell, Ph D (UTM)  
O. Hall, Ph D, LL D, FRSC  
E.B. Harvey, MA, Ph D  
N.L. Howell, BA, Ph D  
W.W. Isajiw, MA, Ph D (S)  
M.J. Kelner, Ph D, LL D  
D.W. Magill, MA, Ph D (N)  
H.M. Makler, MA, Ph D  
W.M. Michelson, AM, Ph D, FRSC  
J.W. Salaff, MA, Ph D  
E. Silva, Ph D (UTM)  
J.H. Simpson, BD, Th M, Ph D (UTM)  
M. Spencer, MA, Ph D (UTM)  
L. Zakuta, MA, Ph D  
I.M. Zeitlin, Ph D (T)

### Professor and Chair of the Department

B. Wheaton, MA, Ph D

### Associate Professor and Associate Chair

S. Welsh, MA, Ph D

### Associate Professor and Associate Chair

A.M. Sorenson, MA, Ph D

### Professors

Z. Baber, MA, PhD (UTM)  
B. Baldus, MA, Dr Sc Pol  
Y.M. Bodemann, MA, Ph D  
M. Boyd, Ph D, FRSC  
R. Brym, MA, Ph D  
B.H. Erickson, MA, Ph D  
E.W-C. Fong, MA, Ph D  
H. Friedmann, Ph D (UTM)  
R. Gartner, MS, Ph D  
A.R. Gillis, MA, Ph D  
J. Hannigan, MA, Ph D (S)  
C.L. Jones, MA, Ph D  
J.B. Kervin, BA, Ph D (UTM)  
J. Myles, Ph D, FRSC  
R. O'Toole, MA, Ph D (S)  
J.G. Reitz, BS, Ph D, FRSC  
S. Schieman, MA, Ph D  
J. Tanner, B Sc, MA, Ph D (S)  
L. Tepperman, AM, Ph D (N)  
B. Wellman, MA, Ph D

### Associate Professors

M. Blute, Ph D (UTM)  
D. Brownfield, MA, Ph D (UTM)  
J. Bryant, MA, Ph D  
B. Fox, Ph D  
K. Hannah-Moffat, MA, Ph D (UTM)  
P.C. Hsiung, MA, Ph D (S)  
W.J. Magee, MS, Ph D

I. Peng, MA, Ph D  
A. Sev'er, MA, Ph D (S)  
S. Ungar, Ph D (S)  
W.H. Vanderburg, MA Sc, Ph D, P Eng  
J.W.P. Veugelers, MA, Ph D

### Assistant Professors

S. Abraham, Ph D (UTM)  
S. Baumann, MA, Ph D (UTM)  
D. Behrens, M Sc, Ph D  
B. Berry, Ph D  
C. Cranford, MA, Ph D (UTM)  
R. Dinovitzer, MA, Ph D (UTM)  
J. Hermer, Ph D (S)  
J. Johnston, MA, Ph D (UTM)  
A.C. Korteweg, MA, Ph D (UTM)  
P. Landolt, Ph D (S)  
K. Liddle, MA, Ph. D. (S)  
A. Mullen, Ph D (S)  
P. Maurutto, MA, Ph D (UTM)  
J. Taylor, PhD  
W. Zhang, PhD (UTM)

### Adjunct Professors

J. Armstrong, Ph D  
J. Baum, Ph D  
R. Blickstead, MBA  
L. Calzavara, Ph D  
P. Erickson, Ph D  
R. Glazier, M Ph, MD  
A. Greve, Dr. Oecon.  
A. Hathaway, Ph D  
B. Kimmerling, Ph D  
D. Livingstone, Ph D  
G. Moore, Ph D  
I-J. Yoon, Ph D

### Senior Lecturer

B. Green, Ph D (UTM)

Sociological investigation ranges from the analysis of small groups to large social systems. Using a variety of methods and skills, Sociology explores how our individual and collective ways of thinking, feeling and acting are shaped by our social experience. Sociological perspectives and methods are now an essential feature of modern culture, public debate and policy in governmental, commercial, and non-profit organizations. The basic sociological hypothesis that "the social matters" is a guiding source of new intellectual and research agendas in disciplines and professional schools throughout the university.

Sociological perspectives and research skills can also provide helpful preparation for many careers, including: government, politics, industry, education and journalism. Medical, legal, and environment fields report an increasing need for sociologists. Municipal governments hire specialists in urban sociology, community relations, policy and planning. In private business sociologists work in management consulting firms and public polling organizations, as well as in labour relations and human resources. A professional career in sociology, however, requires training beyond the undergraduate level.

Much of the undergraduate and graduate teaching and research

# Sociology

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in the department reflect areas of strength that include: crime, law and deviance, gender and family, health and mental health, law, immigration and ethnic relations, labour markets and work, and political sociology. Additional strengths follow from developing areas in the discipline, including globalization, the life course and aging, social policy, and the sociology of culture.

Some SOC courses are restricted (see Note 1 below). Other SOC courses are not restricted but preference is given to students in Sociology programs. Almost all 200-, 300-, and 400-level courses have prerequisites.

Undergraduate Director: Professor A. Sorenson, Room 246, 725 Spadina Ave. 416- 978-4266

Undergraduate Advisor: Ms. A. Mitchell, Room 284, 725 Spadina Ave.

All Enquiries: 416-978-3412 (choose option 2)

Undergraduate Program Information and Course Descriptions: available in Spring at:  
<http://www.utoronto.ca/sociology>

## Sociology Programs

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Enrolment in Sociology Programs is limited. Consult the *Registration Handbook and Timetable* for enrolment details.

### Sociology (Arts program)

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#### Specialist program:

(10 full courses or their equivalent, including at least one 400-series course)

Entry Requirements:

- 1) a minimum grade of 65% in SOC 101Y1;
  - 2) a minimum grade of 70% in each of SOC 200HI, SOC202HI, 203Y1, and SOC204HI; and
  - 3) all students must have completed 8 full courses and be enrolled in the sociology major program.
1. SOC 101Y1
  2. SOC 200HI, SOC202HI, SOC204HI, SOC 203Y1. In order to complete the Specialist program in the usual four-year period, these courses must be taken immediately following SOC 101Y1.
  3. SOC 300HI, 376HI, 377HI, 387HI
  4. SOC 401Y1
  5. Three and a half additional 200+ level SOC full courses

NOTE: The Department recommends that the Major Program requirements be complete at the end of the 15th full course (normally the end of third year)

#### Major program:

(6.5 full courses or their equivalent)

Entry Requirements:

- Option 1) a minimum grade of 65% in SOC 101Y1; and all students need to have completed 4 full courses towards a degree;  
or  
Option 2) a mark of 72% in each of two advanced sociology courses and a CGPA of 3.0 (73%-76%).
1. SOC 101Y1

2. SOC 200HI, SOC202HI, SOC 203Y1, SOC204HI. In order to complete the Major program in the usual three year period, these courses must be taken immediately following SOC 101Y1.
3. Three additional 200+ level SOC courses, including at least two 300+ level courses

#### Minor program:

(4 full courses or their equivalent)

Entry Requirements:

- a minimum grade of 65% in SOC 101Y1; and all students need to have completed 4 full courses towards a degree
1. SOC 101Y1
  2. Three additional 200+ level SOC courses, including at least one 300+ level course

### Sociology and Economics - See Economics

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### Sociology and Philosophy: see Philosophy

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### Sociology and Political Science: see Political Science

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### Sociology and Urban Studies (Arts program)

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Consult Department of Sociology and Dr. R. DiFrancesco, Innis College.

#### Specialist program:

(14.5 full courses or their equivalent, including at least two 400-series courses)

Entry Requirements:

- 1) a minimum grade of 65% in SOC 101Y1;
- 2) a minimum grade of 70% in each of SOC 200HI, SOC202HI, 203Y1, and SOC204HI; and 3) all students must have completed 8 full courses and be enrolled in the sociology major program.

First Year:

1. SOC 101Y1
2. Two of ECO 100Y1/105Y1, GGR 124Y1, a POL 100-level course/POL 214Y1

Higher Years:

1. INI 235Y1, 306Y1, 430Y1
2. SOC 200HI, 202HI, 203Y1, 204HI, 300HI, 276HI, 277HI, 387HI, 401Y1
3. One of SOC 205Y1/385Y1
4. An additional 2.0 courses selected from Groups A/B/C/D/F (not Group E: Sociology) with no more than 1.0 from any group:

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#### Group A: Economics

ECO 200Y1, 236HI, 316Y1, 319HI, 333Y1, 334Y1, 410HI; GGR 220Y1, 324HI, 326HI, 357HI

#### Group B: Geography

JGI 346HI, 360HI; GGR 252HI, 323HI, 324HI, 339HI, 357HI, 364HI, 459HI

#### Group C: History and Architecture

ARC 283HI, FAH 208HI, 209HI, 212HI, 213HI, 214HI, 375HI, 376HI, 377HI, 405HI; GGR 336HI, 366HI

## Group D: Politics

POL 209Y1, 221HI, 317Y1, 321Y1, 333Y1, 336HI, 418Y1, 436Y1, 472HI, 473HI, 474HI, 475HI

## Group F: Environment

GGR 314HI, 332HI, 435HI

## Sociology Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes, all SOC courses are classified as SOCIAL SCIENCE courses (see page 27).

### Note 1.

Enrolment in SOC 200HI, 202HI, 204HI, 300HI, 376HI, 377HI, 401Y1 is restricted as stated in the course descriptions below. Ineligible students will be removed even if the course appears on their timetable.

### SSCI99HI/Y1 First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

### SOC101Y1 Introduction to Sociology 52L, 26T

The basic principles and methods of sociology applied to the study of human societies; social sources of differing values and conceptions of reality, and the influences of these on the behaviour of individuals, patterns of relations among groups, and social stability and change.

### Note

Obtaining 65% or more in SOC101Y1 is a requirement for entry into all SOC programs. SOC101Y1 is also a requirement for completing all SOC programs. Credit for higher-level SOC course will not waive this requirement.

## 200-Series Courses

### Note

Almost all upper-level SOC courses have prerequisites. Students without course prerequisites will be removed at any time they are discovered.

### SOC200HI Logic of Social Inquiry (formerly SOC200Y1) 26, 26T

This course reviews the basic issues that concern all types of data collection methods used by social scientists to test theory. Key topics include selection, sampling, and measurement. The course explores how error affects the data gathered in experiments and non-experimental studies, and in qualitative and quantitative research. The course emphasizes critical thinking about the empirical research presented in everyday life, as well as preparation for more advanced research courses. SOC200HI is a restricted course. Enrolment is limited to sociology Majors (see Note 1 above)

Exclusion: SOC200Y1, JBS229HI, POL242Y1, UNI200Y1, WDW350Y1

Prerequisite: SOC101Y1

### SOC202HI Quantitative Analysis in Social Science Research (formerly SOC300Y1) 26L

Introduction in quantitative social science research – from descriptive statistics to hypothesis testing using various strategies for the analysis of bivariate relationships.

Enrolment is limited to students admitted to the sociology major program.

Exclusion: SOC200Y1, SOC300Y1, ECO220Y1, GGR270HI, PSY201HI, STA220HI, STA248HI, POL242Y1, WDW350Y1  
Prerequisite: SOC101Y1, SOC200HI.

### SOC203Y1 History of Social Theory 52L

Development of sociological theory in the 19th and 20th centuries; history of ideas; formal analysis; relationship between theory and empirical inquiry.

Exclusion: SOC314Y1

Prerequisite: SOC101Y1

### SOC204HI Qualitative Analysis in Social Science Research (formerly SOC387Y1) 26L

Introduction to the methods and issues of qualitative social science research – the theories, methods for data collection and analysis, and the personal and ethical issues relating to qualitative research. Enrollment is limited to students admitted to the sociology major program.

Exclusion: SOC200Y1, SOC387Y1

Prerequisite: SOC101Y, SOC200HI

### SOC205Y1 Urban Sociology 52L

Complementary perspectives of the city: as an evolving entity historically (urbanization); as a way of life and adaptation, reflecting cultures and subcultures (urbanism); as territorial parts reflecting and contributing to social processes (ecological perspective); as a unit managed by formal and informal parties (structural perspective).

Prerequisite: SOC101Y1

### SOC207Y1 Sociology of Work & Occupations 52L

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: SOC101Y1

### SOC210Y1 Ethnicity in Social Organization 52L

Impact of racial, ethnic, and linguistic heterogeneity and of various patterns of immigration on economic, political, and cultural institutions, and on individual identity, self-conceptions, social attitudes, and relations.

Prerequisite: SOC101Y1

### SOC212Y1 Deviance and Control 52L

Sociological analysis of deviance (acts or persons that violate the normative structures of society) and social control (societal responses that attempt to reduce, treat, or transform deviance). What is deviance? What are different ways societies respond to deviance? What are the consequences of efforts to regulate, prevent, and punish deviance?

Prerequisite: SOC101Y1

### SOC213Y1 Law and Society 52L

An introduction to social scientific perspectives and research on the nature, sources, dimensions, and impact of law; conceptual issues and methodological strategies in establishing and

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interpreting linkages between legal and other social structures and processes.

Prerequisite: SOCI101Y1

## **SOC214Y1 Sociology of the Family 52L, 26T**

An examination of cross-cultural variations and social-historical changes in the organization of family life, followed by a critical look at the key activities in family life today. Emphasis is on gender relations.

Prerequisite: SOCI101Y1

## **SOC215Y1 Socialization 52L**

The acquisition and reproduction of personality, culture, and social structure. The social construction of everyday life and secondary socialization is emphasized, with focus on work and family.

Prerequisite: SOCI101Y1

## **SOC218Y1 Asian Communities in Canada 52L (formerly SOC342Y1)**

The course will explore the structures and processes of Asian communities in Canada. Historical development of various Asian communities will be explored. Other topics include ethnic economy, ethnic media, ethnic churches, and ethnic voluntary organizations in Asian communities. Experts in related topics are invited to present their research findings. Non-sociology students may seek departmental permission to enrol.

Exclusion: SOC 342Y1/394Y1

Prerequisite: SOCI101Y1 or permission of Department (see Department before enrolling in course)

## **SOC220Y1 Social Inequality in Canada 52L**

An analysis of historical and contemporary empirical patterns of inequality in Canada. The focus is on income, power, ethnic, regional, and gender inequalities.

Prerequisite: SOCI101Y1

## **SOC243HI Sociology of Health and Illness 26L**

Provides overview of how social factors influence behaviours related to health and illness, definitions of illness and social responses to illness. Addresses questions such as why rates of illness and responses to illnesses vary with historical and biographic conditions or how behaviours related to health and illness affect social relations.

Exclusion: SOC242Y1

Prerequisite: SOCI101Y1

## **SOC244HI Sociology of Health Care 26L**

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. Topics also include the social forces that influence the relationship between healthcare providers and consumers.

Exclusion: SOC242Y1

Prerequisite: SOCI101Y1

## **SOC246HI The Sociology of Aging 39L**

Social gerontology deals with many social aspects of advanced age, e.g. problems of retirement, post-retirement life, living arrangements and family, changes in identity, and new roles for later life, in Canada and in a cross-cultural perspective. Focus is on individual aspects of aging.

Exclusion: SOC245Y1

Prerequisite: SOCI101Y1

## **SOC247HI The Sociology of Aging II 39L**

Social gerontology deals with many social aspects of advanced age. This is a continuation of SOC246HI. Focus is on

institutional level analysis of the programs that assist with aging problems.

Exclusion: SOC245Y1

Prerequisite: SOC246HI

## **SOC250Y1 Sociology of Religion 52L**

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.

Exclusion: RLG210Y1

Prerequisite: SOCI101Y1

## **SOC256HI Lives and Societies 26L**

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.

Exclusion: SOC255Y1

Prerequisite: SOCI101Y1

## **SOC257HI Lives in Canada 26L**

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.

Exclusion: SOC255Y1

Prerequisite: SOCI101Y1

## **SOC260Y1 Power and Policy in Canadian Society 52L**

Examination of the forces and factors that drive and shape policy in Canadian society. The policy areas examined may include: education, labour force and employment, employment equity, ethnocultural relations, and the environment. Exploration of the applications of sociology in the formulation and evaluation of policy choices.

Prerequisite: SOCI101Y1

## **SOC263HI The Quality of Social Life 26L (formerly SOC262Y1)**

This course focuses on macro-micro connections between qualities of social aggregates (ranging from families to nations) and the subjective experiences of members of those aggregates (ranging from happiness/satisfaction to social isolation and stigma).

Prerequisite: PSY100HI/SOCI101Y1

## **SOC270HI Comparative Social Inequality 26L**

This course offers an introduction to the study of processes of social stratification and structures of inequality with an emphasis on comparative, cross-national studies that include Canada as point of reference.

Prerequisite: SOCI101Y1

## **SOC278Y1 Introduction to Social Policy 52L**

1) Introduces students to the theoretical foundations of social policy; and 2) examines some of the key social policy issues. The first part of the course will focus on the theoretical bases of the social policy, including class, gender, race, social citizenship,

and welfare regimes. We will also try to situate these ideas in historical and societal contexts. The second part will examine some of the key social policy issues, such as health care, housing, immigration, race, and politics of welfare retrenchment. Prerequisite: SOC101Y1

**SOC293Y1/ 294Y1/ 295Y1**      **Selected Topics in Sociological Research**      **TBA**

An opportunity to explore a sociological topic in depth. Courses relate to instructor's area of research, so topics vary from year to year. Consult the Departmental website for current course offerings.

Exclusion, Prerequisite, Recommended preparation: varies according to particular course offering; consult descriptions at Departmental website for exact prerequisites

**SOC296H1/ 297H1/ 298H1**      **Selected Topics in Sociological Research**      **TBA**

An opportunity to explore a sociological topic in depth. Courses relate to instructor's area of research, so topics vary from year to year. Consult the Departmental website for current course offerings.

Exclusion, Prerequisite, Recommended preparation: varies according to particular course offering; consult descriptions at Departmental website for exact prerequisites

**SOC299Y1**      **Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

## 300-Series Courses

### Note

Almost all upper-level SOC courses have prerequisites. Students without course prerequisites will be removed at any time they are discovered.

**SOC300H1**      **Applications of Quantitative Methods in the Social Sciences (formerly SOC300Y1)**      **26L, 26T**

Provides students with the opportunity to develop an understanding of the logic of multivariate analysis applying various strategies for the analysis of complex multivariate data. Enrolment is limited to sociology specialists.

Enrolment is limited to students admitted to the sociology specialist program.

Exclusion: SOC300Y1, ECO220Y1, PSY202H1, STA222H, STA250H1

Prerequisite: SOC200H1, SOC202H1.

**SOC301Y1**      **Theories of Inequality**      **52L**

Theories of social inequality, its historical evolution, and the determinants of continuity and change of patterns of social inequality.

Prerequisite: SOC203Y1

**SOC303H1**      **Family Demography**      **26L**

Describes the political, social and economic implications of diversity in family structure. Uses empirical studies in the sociological tradition to describe current trends in living arrangements and family relationships. Examines social and economic consequences of the inconsistencies between public definitions and the reality of family life.

Prerequisite: SOC101Y1

**SOC304H1**      **Status Attainment**      **26L**

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: SOC101Y1

**SOC306Y1**      **Sociology of Crime and Delinquency**      **52L**

Examines explanation, theory construction, measurement procedures, and techniques for data collection and analysis within the sociology of crime and delinquency.

Prerequisite: SOC101Y1

**SOC309Y1**      **HIV and AIDS: Social Policies and Programs (formerly SOC309H1)**      **52L**

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: SOC101Y1

**SOC310H1**      **The Sociology of Juvenile Crime**      **26L**

Examine and evaluate sociological theories and research on the causes and correlates of juvenile crime, with a focus on recent theoretical developments and quantitative analyses of juvenile offending (not delinquency). The course highlights the effects of structural conditions, cultural factors, and individual decisions.

Prerequisite: SOC101Y1

**SOC312Y1**      **Population and Society**      **52L**

Population processes (birth, death, and migration) and their relationship to social, cultural, and economic change.

Prerequisite: SOC101Y1

**SOC317Y1**      **Industrial Sociology (formerly SOC316Y1)**      **52L**

Labour/management relations in industrial societies; impact of technological change on work organizations and labour markets; implications for understanding various topics including social mobility, labour market segmentation, job satisfaction, work/family relations, immigration and race, power in organizations, union and industrial conflict, organizational culture, and the social control of industry.

Prerequisite: A 200+ level SOC course

**SOC320Y1**      **Applied Sociology**      **52L**

Uses of sociological research in guiding social policies and programs. Evaluation research and needs assessment methods are emphasized. Students are required to engage in a research practicum (apprenticeship) at an agency working towards social change or providing social services.

Prerequisite: A 200+ level SOC course

**SOC327Y1**      **Families and Health**      **52L**

Themes include the demand for caregiving, evolving and emerging diseases (genetic, environmental, social, cancer-linked), state's role in health care, factors affecting caregivers, home health care procedures, how families organize to deal with health problems.

Prerequisite: SOC101Y1

**SOC328H1**      **Descriptive Statistics for Categorical Data**      **26L**

Develops student skills in manipulating cross-classified categorical data as well as the effective presentation and informed interpretation of results. Requires use of internet to

# Sociology

access census tables. Not intended for Sociology Specialists, who must take SOC300Y1.

Prerequisite: SOCI01Y1, 200Y1

Recommended preparation: OAC/Grade 12 U Mathematics

## **SOC330Y1 Comparative Ethnic Relations 52L**

Comparative study of interethnic relations, including comparisons of ethnic groups and types of ethnic groups and comparisons of their relative position in different institutions, social structures, and societies. Comparisons made with respect to the impact of society on ethnic groups, and ethnic groups in society.

Prerequisite: A 200+ level SOC course

## **SOC336HI Immigration and Race Relations in Canada 26L**

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: SOCI01Y1

## **SOC339HI Immigration and Employment 26L**

Examines labour market and employment situation of immigrants, from economic and sociological perspectives, emphasizing recent Canadian experience in comparative context. Topics include immigrant human and social capital, declining immigrant earnings, the knowledge economy, skill-underutilization, racial discrimination, labour market structure, unionization, immigrant entrepreneurship, immigrant offspring, and labour market and immigration policy.

Prerequisite: SOCI01Y1

## **SOC341Y1 The Jewish Community in Europe and North America 78L**

Classical and recent writings on Jewish ethno-national identity in the modern period; communal organization; forms of Jewish life in the diaspora and its relationship to other ethnic groups and to society at large; contemporary role of the Holocaust and ethnic memory; Jews in Canada; gender in the Jewish community.

## **SOC343Y1 Sociology of the Pacific Rim (formerly SOC493Y1) 52L**

An intensive research/reading course on the links between Pacific Rim society and culture and Canada. Institutional and network bridges between the Asian region and North America.

Exclusion: SOC493Y1

Prerequisite: A 200+ level SOC course

## **SOC344Y1 Contemporary International Migration 52L**

This overview course focuses on trends and issues associated with contemporary international migration flows and migrant settlement. Emphasis is on Canada although attention is also given to other countries. Topics include causes and types of migration, immigration policy, immigrant women, children of immigrants, and health, language and economic issues.

Prerequisite: SOCI01Y1

## **SOC347HI Sociology of Language (formerly SOC274HI) 26L**

This course studies the effects of language on human societies, focusing attention on how language changes with social class, gender, and social situations. This course will include studies of

language taboos, pidgin and Creole languages, and bilingualism and multilingualism.

Exclusion: JAL253HI, SOC274HI

Prerequisite: SOCI01Y1

## **SOC348HI Sociology & Emotions 26L**

This class will provide a broad overview of major issues and theories in the sociology of emotions, and more generally considers the role of emotions in a range of sociological theories. There is an emphasis on how emotions are related to social rankings.

Prerequisite: SOC203Y1

## **SOC350Y1 Classical Social and Political Thought 52L, 26P**

A survey of classical social theories from Plato to Nietzsche. Students read excerpts and/or secondary expositions of key social and political ideas of Plato, Aristotle, Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Nietzsche and others, with a sociological focus.

Prerequisite: SOCI01Y1

## **SOC352HI Introduction to Canadian Health Care Policy 26L**

This course will introduce students to development and issues related to Canadian health care policy. The course will examine: 1) basic policy making process; 2) policy making process in Canadian context; 3) development of Canadian health care policy; and 4) current health care reform debates and issues.

Prerequisite: A 200+ level SOC course

Exclusion: SOC 351Y1, UNI300Y1

## **SOC354HI Emergent Issues in Health and Social Policies 26L**

This course explores emerging issues in health and social policies. Using the framework of social determinants of health, this course examines: 1) the implications of social factors such as socio-economic inequity, gender, race, homelessness, age, and citizenship status on individual health, and 2) policy options to address these issues

Prerequisite: SOC352HI

Exclusion: SOC351Y1, UNI300Y1

## **SOC355Y1 Structural Analysis 52L**

The structure of social relationships, including both personal networks and the overall organization of whole social settings. The role of social structure in social support, access to scarce resources, power conflict, mobilization, diffusion, and beliefs.

Prerequisite: SOC200Y1

## **SOC356Y1 Technology and Society 52L**

This course analyzes the interplay between new communication technologies and society. It will consider how technological developments affect social systems, and conversely, how social systems affect the nature and use of technology. Much of

the course will be devoted to studying the impact of computerization and the advent of the information highway.

Prerequisite: A 200+ level SOC course

## **SOC358HI Cities and Social Pathology 26L**

Focuses on relationship between urbanization and crime. Urbanization and the size of cities are examined as correlates, and perhaps causes, of crime, delinquency, the development of "deviant service centers", mental illness, and suicide. Does housing level show a link between housing design, crowding, floor level, etc. and crime, delinquency, depression?

Prerequisite: SOC205Y1 or SOC212Y1



<p><b>SOC360Y1    Sociology of Cultural Studies    52L</b> Examination of cultural process practices through which culture is constituted (ordered) and reproduced. A dominant cultural order is created and reproduced through the process of selective tradition, which is treated as natural and “taken for granted.” The cultural processes involve the interaction of economic, political, ideological and cultural practices. Prerequisite: A 200+ level SOC course</p>	<p><b>SOC373HI    Sociology of Disability I    26L</b> <b>(formerly SOC273HI)</b> The experience of disability and the social definition of the experience for self and others. Combination seminar and lecture format. Exclusion: SOC273HI</p>
<p><b>SOC363HI    Sociology of Mental Health and    26L</b> <b>Mental Disorders</b> <b>(formerly SOC262Y1, 264HI)</b> 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: A 200+ level SOC course, PSY101HI or a 200+ level PSY course</p>	<p><b>SOC374HI    Sociology of Disability II    13L/13S</b> The experience of disability and the social definition of the experience for self and others. Combination seminar and lecture format. continuation of Disability I. Exclusion: offered as SOC297HI in 20011 session</p>
<p><b>SOC364HI    Urban Health    26L</b> 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. Exclusion: SOC396HI in 02-03 and 04-05 Prerequisite: A 200+ level SOC course</p>	<p><b>SOC375YI    Sociology of Organizations    52L</b> Internal structure of formal and informal organizations; bureaucracies; patterns of interorganizational relations; impact of organizations on social structure and social classes of different societies. Prerequisite: A 200+ level SOC course</p>
<p><b>SOC365YI    Gender Relations    52L</b> Examination of historical and contemporary sources of gender inequity, and the many dimensions of gender difference and inequality today. Prerequisite: SOC101Y1</p>	<p><b>SOC376HI    Theories of Private and Public Life    26L</b> <b>(formerly SOC389Y1)</b> A selective introduction to major thinkers (such as De Beauvoir and Habermas) and approaches in contemporary sociology. Enrolment is limited to students in the sociology specialist program. Prerequisite: SOC203Y1 Exclusion: SOC389Y1</p>
<p><b>SOC366HI    Sociology of Women and Work    26L</b> Women’s paid and unpaid work and the relationship between the two. Questions about gender gap in earnings, sexual segregation of the labour force, restructuring of paid work, sexual harassment, paid domestic work, and the division of housework and child care. Prerequisite: SOC101Y1</p>	<p><b>SOC377HI    Micro and Macro Theory    26L</b> <b>(formerly SOC389Y1)</b> A selective introduction to major thinkers (such as Fanon, Blau, and Collins) and approaches in contemporary sociology. (adjunct to Theories of Private and Public Life). Topics include the structure-agency debate, methodological individualism, and anticolonialism. Enrolment is limited to students in the sociology specialist program. Prerequisite: SOC203Y1 Exclusion: SOC389Y1</p>
<p><b>SOC367HI    Race, Class, and Gender    26L</b> 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: SOC101Y1</p>	<p><b>SOC380HI    Sociology of Everyday Life 2:    26L</b> <b>Institutional Context</b> The study of social institutions at the macro and meso- levels, through every day experiences. These broader structures are examined through people’s personal experiences. A related course, Soc 388H, focuses on the structures of social interaction at the micro level. Soc 380HI compliments that course, but can be taken independently. Prerequisite: A 200+ level SOC course</p>
<p><b>SOC369YI    The Canadian Community    52L</b> Attention focused on case studies which investigate the social organization of Canadian communities. The case study approach emphasizes theory and methods. The major course requirement is an ethnographic study of a “community.” Prerequisite: A 200+ level SOC course</p>	<p><b>SOC381YI    Culture and Social Structure    52L</b> <b>(formerly SOC393Y1)</b> Our society includes many varieties of cultural tastes and practices. How are these related to inequality? How do cultural repertoires shape people’s lives, including school success, careers, romance, marriage and friendship? How is culture produced in art worlds and industries, transmitted more or less successfully and creatively received? Exclusion: SOC393Y1 Prerequisite: SOC101Y1</p>
<p><b>SOC370YI    Sociology of Labour    78L</b> The role and development of labour and the labour movement in Canada, its differential success in various industries and regions, and its impact on other aspects of society. Prerequisite: 200+ level SOC course</p>	<p><b>SOC382YI    Social Issues    52L</b> <b>(formerly SOC399Y1)</b> Many on-going changes - in education, crime, family life, population, and the environment, among others - give rise to troubling social problems. This course uses sociological analysis and the findings of sociological research to examine public</p>

# Sociology

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discussions and policies proposed to deal with both new and enduring social problems.

Exclusion: SOC399YI

Prerequisite: A 200+level SOC course

**SOC383HI The Sociology of Women and International Migration 26L**

Examines the international migration of women in post-industrial 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 consideration.

Prerequisite: SOCI01YI

**SOC385HI Social Ecology 26L**

Provides a framework for the empirical analysis and practical solution of problems dealing with human well-being which have contextual dimensions. Topics dealt with cover both built and natural environments, as well as aspects of technology. Each student examines a particular problem in detail.

Prerequisite: A 200-level SOC course; or an Environmental Science course focusing on urban and/or natural environments (see Department before enrolling in this course)

**SOC386YI Urbanization 52L**

Examines explanation, theory construction, measurement procedures, and the logic of quantitative analysis within urban sociology and social demography.

Prerequisite: A 200+ level SOC course

**SOC387HI Qualitative Analysis (formerly SOC387YI) 26L**

This course gives students the opportunity to apply their understanding of the research process to the design and implementation of an original research project.

Enrollment is limited to students admitted to the sociology specialist program

Prerequisite: SOC204H

Exclusion: SOC387YI

**SOC388HI Sociology of Everyday Life 26L**

Explores the structure and interactions of everyday experience.

Views our lives as socially ordered and ourselves as agents.

Offers experience in qualitative research and using writing experience. Not intended for Sociology Specialists, who must take SOC389YI.

Exclusion: SOC387YI, 405YI

Prerequisite: SOCI01YI

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## Note

Independent Research courses SOC390YI, 391HI, and 392HI are restricted. Deadline for submitting applications to Department, including supervisor's approval, is the first day of classes of the session. Strongly recommend earlier application as arrangements with supervisor are required in advance.

**SOC390YI/ Independent Research 391HI/ 392HI TBA**

An opportunity to pursue independently a sociological topic of interest with a Departmental advisor. Intended for students

in a Sociology program who have completed a minimum of 10 courses.

Prerequisite: By application (see Department before session begins). Consult Departmental website for procedure.

**SOC393YI/ Selected Topics in Sociological Research TBA**

An opportunity to explore a sociological topic in depth. Courses relate to instructor's area of research, so topics vary from year to year. Consult the Departmental website for current course offerings.

Prerequisite: Varies according to particular course offering; consult description at Departmental website for exact prerequisites

**SOC395HI/ Selected Topics in Sociological Research 396HI/ 397HI TBA**

An opportunity to explore a sociological topic in depth. Courses relate to instructor's area of research, so topics vary from year to year. Visit Department or consult the Departmental website for current course offerings.

Prerequisite: Varies according to particular course offering; consult description at Departmental website for exact prerequisites

**SOC398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

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## 400-Level Courses

### Note

Almost all upper-level SOC courses have prerequisites. Students without course prerequisites will be removed at any time they are discovered.

**SOC401YI Advanced Seminar 52S**

Provides sociology Specialists with an opportunity to explore a sociological topic in depth. Varies in focus from year to year. Consult the Departmental website for current course offering. SOC401YI is a restricted course. Enrolment is limited to sociology Specialists (see Note I above).

Prerequisite: SOC300HI/300YI, 376HI, 377HI, 389YI

**SOC 410HI Sexuality and Modernity 26L**

A sociological examination of sexuality in the modern West, including the treatment of sexuality as a topic of investigation by science (sexology, psychoanalysis), the sociohistorical context of these investigations, and issues around sexuality and urbanization, capitalism, and mass culture more generally.

Prerequisite: 2 full 200 level courses and 1 full 300 level course;

for non-soc majors, by permission of instructor

Recommended Preparation: 2 full 200 level courses and 1 full 300 level course

**SOC442YI Practicum in Health Studies 52L**

Individual field placement with a health research or administration professional, in which the student applies theory and skills to a specific project. Culminates in an oral and written report.

Exclusion: UNI400YI

Prerequisite: 300 level sociology course

**SOC451HI    Analysis and Interpretation    26L**  
**of Survey Data**

Covers statistical methods currently used in the major sociological journals including multiple linear regression, logistic regression, and the fitting of loglinear models to tables of cross-classified categorical data. Stresses presentation skills and sociological interpretation of results.

Prerequisite: SOC300YI; or a full-course equivalent to SOC300YI (see Department before enrolling in course)

Recommended preparation: OAC/Grade 12 U Mathematics

**SOC452HI    Methods and Models of    26L**  
**Demography**

Students learn to calculate life tables and total fertility rates, and apply these concepts in computer projections and simulations.

Prerequisite: SOC101YI, 200YI

Recommended preparation: SOC303HI, 312YI

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**Note**

Independent Research courses SOC 490YI, 491HI, and 492HI are restricted. Deadline for submitting applications to Department, including supervisor's approval, is the first day of classes of the session. Strongly recommend earlier application as arrangements with supervisor are required in advance.

**SOC490YI/    Independent Research    TBA**  
**491HI/**  
**492HI**

An opportunity to pursue independently a sociological topic of interest with a Departmental advisor. Intended for students in a Sociology program who have completed a minimum of 15.0 courses.

Prerequisite: By application (see Department before session begins). Visit Department or consult Departmental website for procedure.

**SOC493YI/    Selected Topics in Sociological    TBA**  
**494YI/        Research**  
**495YI**

An opportunity to explore a sociological topic in depth. Courses relate to instructor's area of research, so topics vary from year to year. Visit Department or consult the Departmental website for current course offerings.

Prerequisite: Varies according to particular course offering; consult description at Departmental website for exact prerequisites

**SOC496HI/    Selected Topics in Sociological    TBA**  
**497HI/        Research**  
**498HI**

An opportunity to explore a sociological topic in depth. Courses relate to instructor's area of research, so topics vary from year to year. Visit Department or consult the Departmental website for current course offerings.

Prerequisite: Varies according to particular course offering; consult description at Departmental website for exact prerequisites

**Note**

Graduate courses available to fourth-year Specialists with permission of the instructor and a minimum GPA of 3.3 for undergraduate program credit. Consult the Department for enrolment procedures.

**South Asian Studies: see New College**

# Spanish

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## Faculty

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### Professors Emeriti

J.F. Burke, MA, Ph D  
K.A.A. Ellis, MA, Ph D, Dr Fil, FRSC  
R.J. Glickman, AM, Ph D  
J. Gulsoy, MA, Ph D, D Honoris Causa, FRSC  
O. Hegyi, MA, Ph D (UTM)  
J.G. Hughes, MA, Ph D  
P.R. León, MA, Ph D (S)  
E.G. Neglia, MA, Ph D (UTM)  
W.L. Rolph, MA, Phil M (I)  
R. Skyrme, MA, M Litt, Ph D (S)  
G.L. Stagg, MBE, MA, AM  
M.J. Valdés, MA, Ph D, FRSC, Miembro Correspondiente de la Academia Mexicana (U)  
J.R. Webster, MA, Ph D, FRSC (SM)

### Associate Professor and Chair of the Department

S.J. Rupp, MA, M Phil, Ph D (V)

### Professors

A. Percival, MA, Ph D  
R. Sternberg, MA, Ph D (SM)

### Associate Professors

J. Blackmore, MA, Ph D (V)  
A.T. Pérez-Leroux, MA, Ph D  
R. Sarabia, MA, Ph D

### Assistant Professors

L. Colantoni, MA, Ph D  
R. Davidson, MA, Ph D  
S. Munjic, MA, Ph D  
V. Rivas, MA, Ph D  
N.E. Rodríguez, Ph D  
D. Rojinsky, MA, Ph D

### Lecturer

M. Ramirez, MA, Ph D

Hispanic culture offers a variety probably unrivalled by any other modern Western culture. In the Middle Ages, Spain was the vital point of contact of the Christian, Jewish, and Islamic civilizations. In the early modern period it led the way in the exploration and settlement of the New World, contributing significantly to the evolution of a flourishing Ibero-American culture. Today it is estimated that Spanish is one of three most widely-spoken languages in the world.

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 social, 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.

The progression of courses in the language sequence is designed to accommodate a wide range of previous preparation in the spoken and written language. In their first year, beginners

receive an intensive course, SPA 100Y1; those with OAC/Grade 12 standing begin their University studies in SPA 220Y1; students who on entry are already well qualified in Spanish and demonstrate both oral and written fluency are expected to proceed directly to more advanced levels of study. Throughout the language stream, stress is laid both on the cultural component of language acquisition and on the range of practical applications to which both the spoken and the written language may be put. Courses in phonetics, in business Spanish, and in the history and structure of the Spanish language provide an array of possible options for students in the upper years.

Following an introduction to the methodologies of critical analysis as applied to Hispanic texts, students have a wide selection of courses on the literatures of Spain and Spanish America: medieval Spanish literature; early modern prose, verse and drama; the modern novel, short story, poetry, drama and film. In all years, the works are read and discussed not only in terms of their individual artistic value but also as illustrations of the outlook and the intellectual climate of their age.

In conjunction with Woodsworth College, the department makes SPA courses available during the summer at the University of Guadalajara. Interested students should contact the Professional and International Programs, Woodsworth College ([summer.abroad@utoronto.ca](mailto:summer.abroad@utoronto.ca))

For the Portuguese component, see under Portuguese Program in this Calendar.

Undergraduate Coordinator: Professor R. Sarabia (416-813-4082). E-mail: [spanport.undergraduate@utoronto.ca](mailto:spanport.undergraduate@utoronto.ca)

Enquiries: Victoria College, Room 208 (416-813-4080)

## Spanish Programs

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Enrolment in the Spanish programs requires the completion of four degree courses; no minimum GPA required.

### Spanish (Arts program)

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Consult Professor R. Sarabia, Department of Spanish and Portuguese.

#### Specialist program:

(9 full courses or their equivalent, including at least one 400-series course)

First Year:

SPA 100Y1/220Y1; SPA 319Y1 (for native/bilingual speakers of Spanish)

Second Year:

SPA 220Y1/320Y1; SPA 420H1 (for speakers who have taken SPA 319Y1 in first year)

Third and Fourth Years:

1. SPA 320Y1, 420H1, 454H1
2. SPA 450H1 or 452H1
3. One 300/400-series half-course in language or linguistics
4. One course in Spanish American literature from the 300/400-series
5. Plus additional SPA courses to make the equivalent of 9 courses. Up to two full-course equivalents may be taken from cognate departmental or college offerings: GGR, HIS, LAS, LIN, POL, PRT. A complete list of eligible courses is

available from the Undergraduate Coordinator. Students interested in Latin America are encouraged to take an introductory course in Portuguese (PRT 100Y1/110Y1).

## Major program:

(7 full courses or their equivalent)

First Year:

SPA 100Y1/220Y1; SPA 319Y1 (for native/bilingual speakers of Spanish)

Second Year:

SPA 220Y1/320Y1; SPA 420HI (for speakers who have taken SPA 319Y1 in first year)

Third and Fourth Years:

1. SPA 320Y1, 454HI
2. SPA 450HI or 452HI
3. SPA 420HI is recommended for students who start in SPA 100Y1
4. SPA 420HI is required for students who start in SPA 220Y1 or higher language course; plus a 300/400-series half-course in language or linguistics
5. Plus additional SPA courses, including a half-course in Spanish American literature, to make seven courses. Up to one full-course equivalent may be taken from cognate departmental or college offerings: GGR, HIS, LAS, LIN, POL, PRT. A complete list of eligible courses is available from the Undergraduate Coordinator. Students interested in Latin America are encouraged to take an introductory course in Portuguese (PRT 100Y1/110Y1).

## Minor program:

(4 full courses or their equivalent)

SPA 319Y1/320Y1 plus additional SPA courses to make four courses. Up to one full-course equivalent of cognate credit may be taken in Portuguese.

**Spanish: see also European Studies, Latin American Studies, Modern Languages And Literatures, Linguistics And Languages**

## Spanish Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), SPA courses are classified as HUMANITIES courses.

### HUM 199Y1 First Year Seminar 52S

Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

## Notes

1. The Department reserves the right to place students in the language course best suited to their linguistic preparation.

2. Students with an adequate knowledge of Spanish may be required to substitute another Spanish literature or culture course for the language course at any level.

### SPA100Y1 Spanish for Beginners 26L, 52T

Introduction to the Spanish language for beginning students; overview of basic grammatical structures, development of vocabulary and oral and written expression.

Exclusion: OAC/Grade 12 U Spanish or equivalent knowledge of Spanish

### SPA220Y1 Intermediate Spanish 52L, 26T

Intermediate Spanish for non-natives. Intensive grammar review of the structures of Spanish integrated with an introduction to reading authentic Spanish material, with practice designed to build vocabulary and to improve oral and written expression. Exclusion: SPA319Y1

Prerequisite: OAC/Grade 12 U Spanish/SPA100Y1

### SPA254H0 Mexican Culture 50L

Survey of Mexican culture and society, with attention to central issues in history, politics, education, and popular tradition, and important thinkers of twentieth-century Mexico: Paz, Fuentes, and others. (Offered only in Guadalajara)

Prerequisite: SPA220Y1/319Y1 and Placement Examination for the Guadalajara Program

### SPA258HI Introduction to Hispanic Literary Studies 26L

Introduction to university literary studies in Spanish. Critical terminology and methods. Representative selections of modern Spanish and Spanish American prose, poetry, and drama. (Offered in alternate years)

Prerequisite: OAC/Grade 12 U Spanish/SPA100Y1

Co-requisite: SPA220Y1/319Y1

### SPA259HI Introduction to Hispanic Cultural Studies 26L

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: SPA 100Y1

Co-requisite: SPA 220Y1/319Y1

### SPA281Y0 Art and Politics in Contemporary Mexico 75L

Art and culture since the period of the Mexican Revolution, studied in the context of political and social developments. Lectures and readings in English. Field trips around the city of Guadalajara are offered as part of the course. (Offered only in Guadalajara)

### SPA299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details.

### SPA317H0 Language Practice 50L

Communication practice in small groups, with an emphasis on skills in speaking, listening, and writing. Selective review of grammatical structures and active vocabulary. (Offered only in Guadalajara)

Prerequisite: SPA220Y1/319Y1 and Placement Examination for the Guadalajara Program

### SPA319Y1 Spanish for Bilingual and Native Speakers 26L

Survey of the mechanics of writing and basic grammar for fluent speakers of Spanish with limited or no exposure to written Spanish; English/Spanish spelling differences, written and spoken registers of Spanish, basic aspects of the grammatical system.

Exclusion: SPA100Y1, 220Y1, 320Y1

# Spanish

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## **SPA320YI      Advanced Spanish                      52L, 26T**

Advanced Spanish for non-natives. Selective review of grammar with emphasis on the complex sentence; intensive practice in written and oral expression to improve proficiency.

Exclusion: SPA319YI

Prerequisite: SPA220YI

## **SPA321HI      Spanish Phonetics and Pronunciation 26L**

An 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: SPA220YI/319YI

## **SPA322HI      Introduction to Hispanic Linguistics 26L**

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. (Offered in alternate years)

Prerequisite: SPA 220YI/319YI

Recommended preparation: SPA 321HI

## **SPA323HI      Business Spanish                                      26L (formerly SPA323YI)**

Practical uses of spoken and written Spanish for business contexts. This course builds on grammar and vocabulary knowledge already acquired at the intermediate level, and is directed primarily at students pursuing a second major in Ibero-American Studies or European Studies. (Offered in alternate years)

Exclusion: SPA323YI

Prerequisite: SPA220YI/319YI

## **SPA324HI      Spanish Bilingualism                                      26L**

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 bilingual childhood. Introduction to survey methods in sociolinguistics and psycholinguistics, and basic techniques for conducting language interviews.

Prerequisite: SPA220YI/319YI

Recommended preparation: SPA321HI

## **SPA325HI      Catalan Language and Culture                      26L**

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. Analysis of works by Lull, March, d'Ors, Gaudi, Rodoreda, and others. (Offered in alternate years)

Prerequisite: SPA220YI/PRT220YI or an equivalent course in French or Italian

Exclusion: SPA225YI

## **SPA 341HI      Modernist Movements in Spain                      26L**

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. (Offered in alternate years)

Prerequisite: SPA220YI/319YI

Recommended Preparation: SPA258HI/SPA259HI

## **SPA345HI      Spanish Cinema    26L**

Analysis of the development of Spanish Cinema within its social and political contexts. Directors studied include Buñuel, Bardem, Erice, Saura, Almodóvar and Bigas Luna. (Offered in alternate years).

Prerequisite: SPA 220YI/319YI

Recommended Preparation: SPA258HI/SPA259HI

## **SPA352HI      Writing and Culture in Early                      26L Modern Spain**

Representative literary and cultural texts from the early modern period, studied in relation to the history and society of imperial Spain. Discussion will centre on such issues as the formation of the state, urbanization, court culture, social order and disorder, and cultural discourses of identity and difference. (Offered in alternate years)

Prerequisite: SPA 220YI/319YI

Recommended Preparation: SPA258HI/SPA259HI

## **SPA375HI      Latin American Cinema                                      26L**

Latin American cinema within the framework of cultural studies, film theory, and film criticism. Analysis of representative films from Argentina (Solanas, Puenzo), Brazil (Babenco, Camus, Salles), Cuba (Ichaso, Gutiérrez Alea, Solás), Mexico (Ripstein, Cuarón, González Iñárritu), and Venezuela (Román Chalbaud). (Offered in alternate years)

Prerequisite: SPA220YI/SPA319YI

Recommended preparation: SPA258HI/259HI

## **SPA380HI      Colonial Literatures and Cultures                      26L**

Issues of gender, race, and identity in major texts from the colonial period, from the Conquest to the end of the eighteenth century. (Offered in alternate years)

Prerequisite: SPA220YI/319YI

Recommended preparation: SPA258HI

## **SPA381HI      Nation, Identity and Literary                      26L Modernism in Spanish-America**

Analysis of poetry, short stories, essays, and graphic art in the context of nation-building and the question of identity during the nineteenth century. Modernismo studied as the first literary movement of Spanish American origin. (Offered in alternate years)

Prerequisite: SPA220YI/319YI

Recommended preparation: SPA258HI

## **SPA382HI      Spanish American Women in                      26L Art, Film, and Literature**

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. (Offered in alternate years)

Prerequisite: SPA220YI/319YI

Recommended preparation: SPA258HI

## **SPA384HI      Avant-Garde Movements in                      26L Spanish America**

Study through 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. (Offered in alternate years)

Prerequisite: SPA220YI/319YI

Recommended preparation: SPA258HI

<p><b>SPA385HI Literature and Social Change in Spanish America 26L</b>            Modern literature in its critical relation to social conditions. Emphasis on socio-historical context, ideologies of the period and writers' views of their social responsibility as a framework for literary analysis (Offered in alternate years)            Prerequisite: SPA220Y1/319Y1            Recommended preparation: SPA258HI</p> <p><b>SPA387H0 Contemporary Mexican Literature 50L</b>            Social change and literary innovation in Mexican literature since the 1950s; analysis of selections from Agustín, Juan Rulfo, Carlos Fuentes, Fernando del Paso, Octavio Paz, Laura Esquivel, and others. (Offered only in Guadalajara)            Prerequisite: SPA220HI1/319Y1 and Placement Examination for the Guadalajara Program</p> <p><b>SPA398H0/ 399Y0 Independent Experiential Study Project</b>            An instructor-supervised group project in an off-campus setting. See page 47 for details.</p> <p><b>SPA420HI Advanced Grammar 26L</b>            Linguistic analysis with the objective of improving students' command of Spanish grammar. Advanced review of traditional grammatical topics, including the verbal and pronominal systems, and Spanish copulas and embedded clauses. This course assumes familiarity with the grammatical terminology introduced in SPA 220Y1.            Prerequisite: SPA319Y1/320Y1</p> <p><b>SPA421HI The Structure of Spanish 26L</b>            Study of Spanish morphology and syntax: syntactic categories in Spanish, the structure and interpretation of simple and complex sentences. (Offered in alternate years)            Prerequisite: SPA319Y1/320Y1, 321HI or permission of department            Recommended preparation: SPA322HI</p> <p><b>SPA422HI Sociolinguistics of Spanish 26L</b>            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: SPA321HI, 420HI or permission of the department            Recommended preparation: SPA322HI</p> <p><b>SPA425HI History of the Spanish Language 26L</b>            The evolution of Spanish. The dialectalization of Hispano-Latin through inherent linguistic changes and influences from other languages and the development of Castilian into one of the world's most important languages. (Offered in alternate years)            Prerequisite: SPA220Y1/319Y1, 321HI; SPA421HI strongly recommended</p> <p><b>SPA435HI Fictions of Contemporary Spain 26L</b>            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. (Offered in alternate years)            Prerequisite: SPA220Y1/319Y1            Recommended preparation: SPA258HI</p> <p><b>SPA438HI Topics in Modern Spanish Literature 26S</b></p>	<p>A course on a specific topic in modern Spanish literature, designed for advanced students. Course content and instructor are established on a yearly basis.            Prerequisite: SPA220Y1/319Y1</p> <p><b>SPA450HI Studies in Medieval Iberian Literature 26L</b>            Medieval works studied in relation to literary and cultural traditions. Issues of genre, discourse, and ideology are scrutinized in various texts, including lyric, narrative, and moral and didactic writings. (Offered in alternate years)            Prerequisite: SPA220Y1/319Y1            Recommended preparation: SPA352HI</p> <p><b>SPA452HI Theatre and Representation in Golden Age Spain 26L</b>            Study of theatre and the idea of representation, with reference to parallels in lyric poetry and visual art. Emphasis on the Spanish comedia as a genre, and on its interaction with other artistic forms in the Golden Age. (Offered in alternate years)            Exclusion: SPA350Y1            Prerequisite: SPA220Y1/319Y1            Recommended preparation: SPA320Y1, 352HI</p> <p><b>SPA454HI Cervantes and Golden Age Narrative 26L</b>            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. Parallel readings in romance, picaresque fiction, and the ballad tradition.            Exclusion: SPA350Y1            Prerequisite: SPA220Y1/319Y1            Recommended preparation: SPA329Y1, 352HI</p> <p><b>SPA467HI Topics in Spanish-American Culture 26L</b>            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: SPA220Y1/SPA319Y1</p> <p><b>SPA468HI Topics in Modern Spanish-American Literature 26S</b>            A course on a specific topic in Spanish American literature, designed for advanced students. Course content and instructor are established on a yearly basis.            Prerequisite: SPA220Y1/319Y1</p> <p><b>SPA471HI The Historical Novel in Spanish America 26L</b>            Issues of nationalism, historical awareness, and the rewriting of the past in Spanish American fiction, with detailed study of representative texts. (Offered in alternate years)            Prerequisite: SPA220Y1/319Y1            Recommended preparation: SPA258HI</p> <p><b>SPA480HI Theories of Culture in Latin America 26I</b>            Theories of cultural identity and production, as articulated by Latin American thinkers since the Independence period. Issues for study will include civilization and barbarity, cultural imperialism, the commodification and consumption of cultural icons, museums, the mass media and national identity, processes of transculturation and cultural hybridity. (Offered in alternate years)            Prerequisite: SPA220Y1/319Y1            Recommended Preparation: SPA258HI/259HI</p>
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# Spanish

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**SPA482HI      20th-Century Spanish      26L**  
**American Narrative**

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. (Offered in alternate years)

Prerequisite: SPA220Y1/319Y1

Recommended preparation: SPA258HI

**SPA486HI      Contemporary Caribbean      26L**  
**Literatures and Identities**

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). (Offered in alternate years)

Prerequisite: SPA220Y1/319Y1

Recommended preparation: SPA258HI

**SPA487HI      The Culture of Revolution      26L**

Detailed study of key moments and texts in Spanish American culture from the nineteenth and twentieth centuries, focussing on such topics as the creation of new nations, indigenismo, Caribbean anti-slavery literature, and the Mexican and Cuban Revolutions. (Offered in alternate years)

Prerequisite: SPA220Y1/319Y1

Recommended preparation: SPA258HI/259HI

**SPA490HI/      Independent Study      TBA**  
**491HI**

Individual study with a member of staff on a topic of common interest including readings, discussion and written assignments.

Prerequisite: SPA319Y1/320Y1 and written approval of the Undergraduate Coordinator



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**Faculty****Professors Emeriti**

D.F. Andrews, M Sc, Ph D  
D.A.S. Fraser, BA, Ph D, FRSC  
I. Guttman, MA, Ph D  
M.S. Srivastava, M Sc, Ph D

**Professor and Chair of the Department**

K. Knight, M Sc, Ph D

**Professor and Associate Chair - Graduate Studies**

A. Feuerverger, B Sc, Ph D

**Professor and Associate Chair - Undergraduate Studies**

D. Brenner M Sc, Ph D

**University Professor**

N.M. Reid, M Sc, Ph D, FRSC

**Professors**

S. Broverman, M Sc, Ph D, ASA  
M.J. Evans, MA, Ph D (UTSC)  
A. Feuerverger, B Sc, Ph D  
X.S. Lin, M Sc, Ph D, ASA  
P. McDunnough, M Sc, Ph D  
R. Neal, B Sc, Ph D  
J. Quastel, MS, Ph D  
J.S. Rosenthal, MA, Ph D  
J. Stafford, M Sc, Ph D

**Associate Professors**

D. Brenner, M Sc, Ph D  
L.J. Brunner, MA, Ph D (UTM)  
R. Craiu, B Sc, Ph D

**Assistant Professors**

O. Angel, B Sc, Ph D (UTM)  
A. Badescu, B Sc, M Sc, Ph D  
S. Jaimungal, B A Sc, M Sc, Ph D  
B. Virág, Ph D (UTSC)  
F. Yao, B Sc, M Sc, Ph D

**Senior Lecturer**

A. Gibbs, B Math, B Ed, M Sc, Ph D  
S.A. Hashim, B Sc, Ph D (UTSC)  
A.M. Vukov, MA, ASA  
A. Weir, B Sc, M Sc, Ph D (UTM)

**Lecturer**

K. Butler, M Sc, Ph D (UTSC)

Statistical methods have applications in almost all areas of science, engineering, business, government, and industry. The practising statistician is involved in such diverse projects as designing clinical trials to test a new drug, economic model-building to evaluate the costs of a guaranteed-income scheme, predicting the outcome of a national election, planning a survey of television viewing habits, and estimating animal populations.

Today's consumer is bombarded with the results of so many quantitative studies using statistical methodology that it is

necessary to know something about statistics in order to be properly critical. A basic knowledge of statistics should be an integral part of everyone's general education.

Probability theory is used to analyse the changing balance among the age-groups in a population as the birth rate changes, the control force needed to keep an aircraft on course through gusts of wind, the chance that the demand for electricity by all the customers served by a substation will exceed its capacity. These are just three of many phenomena that can be analysed in terms of randomness and probability.

The course offerings are intended not only for specialists in the theory of the subject but also to serve the needs of the many other disciplines that use statistical methods, e.g. in sample survey design and experimental design. Students following the Specialist Program are encouraged to include courses in major fields of application in their overall program. The Major Program can be profitably combined with specialization in another discipline. Students in these programs may also qualify for the A.Stat. designation from the Statistical Society of Canada.

Both applied and theoretical courses are offered in Statistics and Probability. The foundation courses STA 220HI, 221HI, 250HI, 255HI, 257HI, and 261HI are distinguished primarily by their mathematical demands, as indicated by the prerequisites. Students interested in the Biological or Social Sciences will generally find the most relevant courses of the more advanced courses to be STA 302HI, 322HI, 332HI, and 429HI. Furthermore, the probability course STA 347HI will be of interest to those whose field of application includes stochastic models.

Associate Chair, Undergraduate Studies: Professor D. Brenner;  
e-mail: brenner@utstat.utoronto.ca

Enquiries: 100 St. George Street, Sidney Smith Hall, Room 6018  
(416-978-3452)

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**Statistics Programs**

Enrolment in these programs requires completion of four courses; no minimum GPA is required.

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**Statistics (Science program)****Specialist program:**

(11 full courses or their equivalent, including at least one 400-series course)

First Year:

CSC 148HI/260HI (may be taken in 2nd year); MAT 137Y1/157Y1

Second Year:

MAT 223HI/240HI, 224HI/247HI; MAT 237Y1/235Y1/257Y1;  
STA (257HI, 261HI) (MAT 223HI/240HI recommended in First Year)

Higher Years:

1. STA 302HI, 347HI, 352Y1
2. 1.5 courses from Group A (MAT 237Y1 required) or 1.5 courses from Group B:
3. 1.0 course from: APM 346HI/351Y1, MAT 334HI/354HI, 337HI/357HI, 301HI/347Y1
4. 2.0 full courses from: ACT 300+ level courses; CSC 336HI/350HI, 354HI, 384HI; STA 300+ level courses

# Statistics

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## Group A:

STA 410HI/442HI, 414HI/422HI/438HI, 447HI

## Group B:

STA 410HI, 442HI, 414HI/437HI/457HI

## Note

Substitutions of other Science/Social Science 300+ level courses for up to 1.0 courses in 4. above are possible with approval of the Undergraduate Coordinator

## Major program:

(6.5 full courses or their equivalent)

### First Year:

CSC 108HI/148HI/260HI (may be taken in 2nd year); MAT 135YI/137YI/157YI

### Second Year:

MAT 223HI/240HI, 235YI/237YI/257YI; STA (257HI, 261HI)/(250HI, 255HI)/(247HI, 248HI)

(MAT 223HI/240HI recommended in First Year)

### Higher Years:

1. STA 302HI
2. A selection of four STA half-courses from STA 322HI, 332HI, 347HI, 352YI, 410HI, 414HI, 422HI, 437HI, 438HI, 442HI, 457HI, 447HI, 450HI

## Note

Suggested combinations for the four STA half courses are as follows:

1. Four of: STA 347HI, 352YI, 447HI
2. Four of: STA 322HI, 332HI, 410HI, 437HI, 442HI, 457HI
3. Four of: STA 332HI, 347HI, 410HI/437HI, 442HI/422HI

## Minor program:

(4 full courses or their equivalent)

1. MAT 135YI/137YI
2. MAT 223HI/240HI; STA (250HI)/(220HI, 221HI), 255HI)/STA (247HI, 248HI)/STA (257HI, 261HI)
3. STA (302HI, 352YI)/three STA half-courses at the 300/400-level

## Statistics and Computer Science - See Computer Science

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## Statistics and Economics - See Economics

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## Statistics and Mathematics (Science program)

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Consult Professor J.S. Rosenthal, Department of Statistics.

## Specialist program:

(11 full courses or their equivalent, including at least one 400-series course)

### First Year:

MAT 157YI, 240HI

### Second Year:

MAT 247HI, 257YI, 267HI, STA 257HI, 261HI

### Third and Fourth Years:

1. MAT 327HI, 354HI, 357HI; STA 352YI, 347HI, 447HI
2. At least 2 half-courses from STA 302HI, 332HI, 410HI, 414HI, 437HI, 442HI, 450HI
3. At least 2 half-courses from STA 422HI, 438HI, 457HI
4. At least one 300+ level f.c.e. from APM, CSC, MAT

## Note

The Department recommends that PHY 140YI be taken in first year, and that CSC 148HI/260HI be taken during the program

## Statistics Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27) STA 220HI, 221HI, 250HI, 255HI, and 257HI have NO distribution requirement status; STA 429HI is a SCIENCE or SOCIAL SCIENCE course; all other STA courses are classified as SCIENCE courses.

**SCII99HI/YI First Year Seminar 52S**  
Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member deeply engaged in the discipline. Open only to newly admitted first year students. It may serve as a distribution requirement course; see page 47.

### STA107HI An Introduction to Probability 39L, 13T and Modelling

Introduction to the theory of probability, with emphasis on the construction of discrete probability models for applications. After this course, students are expected to understand the concept of randomness and aspects of its mathematical representation. Topics include random variables, Venn diagrams, discrete probability distributions, expectation and variance, independence, conditional probability, the central limit theorem, applications to the analysis of algorithms and simulating systems such as queues.

Exclusion: ECO220YI, ECO227YI/STA247HI/STA255HI/257HI/  
Co-requisite: MAT135YI/137YI/157YI (MAT137YI/157YI is strongly recommended; MAT133YI is not acceptable)

### STA220HI The Practice of Statistics I 39L, 13T

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.

Exclusion: ECO220YI/227YI/GGR270HI/PSY201HI/  
SOC300YI/STA250HI/261HI/248HI

Prerequisite: Grade 12 Mathematics and one University course in the physical, social, or life sciences

STA220HI does not count as a distribution requirement course.

### STA221HI The Practice of Statistics II 39L, 13T

Continuation of STA220HI, 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.

Exclusion: ECO220YI/227YI/GGR270YI /PSY202HI/  
SOC300YI/STA261HI/250HI/248HI

Prerequisite: STA220HI

STA221HI does not count as a distribution requirement course.

### STA247HI Probability with Computer Applications 39L, 13T

Introduction to the theory of probability, with emphasis on applications in computer science. The topics covered include random variables, discrete and continuous probability distributions, expectation and variance, independence, conditional probability, normal, exponential, binomial, and Poisson distributions, the central limit theorem, sampling distributions, estimation and testing, applications to the analysis of algorithms, and simulating systems such as queues.

Prerequisite: MAT 135Y1/137Y1/157Y1; CSC 108H1/148H1  
Exclusion: ECO 227Y1/STA 255H1/257H1

**STA248H1 Statistics for Computer Scientists 39L, 13T**

A survey of statistical methodology with emphasis on data analysis and applications. The topics covered include descriptive statistics, data collection and the design of experiments, univariate and multivariate design, tests of significance and confidence intervals, power, multiple regressions and the analysis of variance, and count data. Students learn to use a statistical computer package as part of the course.

Prerequisite: STA 247H1/255H1/257H1; CSC 108H1/148H1  
Exclusion: ECO 220Y1/227Y1/GGR 270Y1/PSY 201H1/SOC 300Y1/STA220H1/221H1/250H1/261H1

**STA250H1 Statistical Concepts 39L, 13T**

A survey of statistical methodology with emphasis on data analysis and applications. The topics covered include descriptive statistics, basic probability, simulation, data collection and the design of experiments, tests of significance and confidence intervals, power, multiple regression and the analysis of variance, and count data. Students learn to use a statistical computer package as part of the course.

Exclusion: ECO220Y1/227Y1/GGR270Y1/PSY201H1/  
SOC300Y1/STA220H1/261H1/221H1/248H1

Prerequisite: MAT133Y1/135Y1/137Y1/157Y1

STA250H1 does not count as a distribution requirement course

**STA255H1 Statistical Theory 39L, 13T**

This courses deals with the mathematical aspects of some of the topics discussed in STA250H1. Topics include discrete and continuous probability distributions, conditional probability, expectation, sampling distributions, estimation and testing, the linear model.

Exclusion: ECO220Y1/227Y1/STA257H1/261H1/247H1/248H1

Prerequisite: STA250H1/221H1, MAT135Y1/137Y1/ 157Y1

STA255H1 does not count as a distribution requirement course.

**STA257H1 Probability and Statistics I 39L, 13T**

This course covers probability including its role in statistical modelling. Topics include probability distributions, expectation, continuous and discrete random variables and vectors, distribution functions. Basic limiting results and the normal distribution presented with a view to their applications in statistics.

Exclusion: ECO227Y1/STA255H1/247H1

Prerequisite: MAT135Y1/137Y1/157Y1 (MAT137Y1/157Y1 is strongly recommended)

Co-requisite: MAT235Y1/237Y1/257Y1 (MAT237Y1/257Y1 is strongly recommended)

STA257H1 does not count as a distribution requirement course.

**STA261H1 Probability and Statistics II 39L, 13T**

A sequel to STA257H1 giving an introduction to current statistical theory and methods. Topics include: estimation, testing, and confidence intervals; unbiasedness, sufficiency, likelihood; simple linear and generalized linear models.

Exclusion: ECO227Y1/STA248H1/255H1

Prerequisite: STA257H1

**STA299Y1 Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**STA302H1 Regression Analysis 39L**

Analysis of the multiple regression model by least squares; statistical properties of least squares analysis, estimate of error; residual and regression sums of squares; distribution theory under normality of the observations; confidence regions and intervals; tests for normality; variance stabilizing transformations, multicollinearity, variable search method.

Exclusion: ECO327Y1/357Y1

Prerequisite: STA255H1/248H1/261H1/ECO220Y1 (70%)/227Y1/(STA257H1, MAT224H1)

**STA322H1 Design of Sample Surveys 39L**

Designing samples for valid inferences about populations at reasonable cost: stratification, cluster/multi-stage sampling, unequal probability selection, ratio estimation, control of non-sampling errors (e.g. non-response, sensitive questions, interviewer bias).

Prerequisite: ECO220Y1/227Y1/GGR270H1 / PSY202H1/  
SOC300Y1/STA221H1/255H1/261H1/248H1

**STA332H1 Experimental Design (formerly STA402H1) 39L**

Design and analysis of experiments: randomization; analysis of variance; block designs; orthogonal polynomials; factorial designs; response surface methodology; designs for quality control.

Prerequisite: STA302H1/352Y1/ECO327Y1/357Y1

Exclusion: STA402H1

**STA347H1 Probability 39L**

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: STA247H1/255H1/257H1/(ECO227, MAT237Y1/  
257Y1), MAT235Y1/237Y1/257Y1 (MAT237Y1/257Y1 and STA257H1 are strongly recommended)

**STA352Y1 Introduction to Mathematical Statistics 78L**

Introduction to statistical theory and its application. Basic inference concepts. Likelihood function, Likelihood statistic. Simple large sample theory. Least squares and generalizations, survey of estimation methods. Testing hypotheses, p-values and confidence intervals. Bayesian-frequentist interface. Analysis of Variance from a vector-geometric viewpoint. Conditional inference.

Prerequisite: MAT235Y1/MAT237Y1/MAT257Y1; STA261H1/  
(STA257H1, MAT224H1)/(ECO227Y1, MAT237Y1/  
MAT257Y1) (MAT237Y1/MAT257Y1 very strongly recommended).

**STA398H0/ Independent Experiential Study Project 399Y0**

An instructor-supervised group project in an off-campus setting. See page 47 for details.

**STA410H1 Statistical Computation 39L**

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, CSC108H1

# Statistics

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## **STA414HI Statistical Methods for Data Mining and Machine Learning 52L, 26P**

Statistical aspects of supervised learning: regression with spline bases, regularization methods, parametric and nonparametric classification methods, nearest neighbours, cross-validation and model selection, generalized additive models, trees, model averaging, clustering and nearest neighbour methods for unsupervised learning.

Prerequisite: STA302HI/CSC411HI

## **STA422HI Theory of Statistical Inference 39L**

The course discusses foundational aspects of various theories of statistics. Specific topics covered include: likelihood based inference, decision theory, fiducial and structural inference, Bayesian inference.

Prerequisite: STA352YI

## **STA429HI Advanced Statistics for the Life and Social Sciences 39L**

The course discusses many advanced statistical methods used in the life and social sciences. Emphasis is on learning how to become a critical interpreter of these methodologies while keeping mathematical requirements low. Topics covered include multiple regression, logistic regression, discriminant and cluster analysis, principal components and factor analysis.

Exclusion: All 300+ level STA courses except STA322HI

Prerequisite: ECO220YI/227YI/GGR270YI /PSY202HI/SOC300YI/STA221HI/250HI

STA429HI does not count towards any STA programs

## **STA437HI Applied Multivariate Statistics 26L, 13P**

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: ECO327YI/357YI/STA302HI/352YI

Recommended preparation: APM233YI/MAT223HI/240HI

## **STA438HI Theoretical Multivariate Statistics 39L**

An introductory survey of current multivariate analysis, multivariate normal distributions, distribution of multiple and partial correlations, Wishart distributions, distribution of Hotelling's T<sup>2</sup>, testing and estimation of regression parameters, classification and discrimination.

Prerequisite: MAT223HI/240HI, STA352YI/437HI (STA352YI strongly recommended)

## **STA442HI Methods of Applied Statistics 39L**

Advanced topics in statistics and data analysis with emphasis on applications. Diagnostics and residuals in linear models, introductions to generalized linear models, graphical methods, additional topics such as random effects models, split plot designs, smoothing and density estimation, analysis of censored data, introduced as needed in the context of case studies.

Prerequisite: ECO327YI/357YI/STA302HI

## **STA447HI Stochastic Processes (formerly STA348HI) 39L**

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).

Exclusion: STA348HI

Prerequisite: STA347HI

## **STA450HI Topics in Statistics 39L**

Topics of current research interest are covered. Topics change from year to year, and students should consult the department for information on material presented in a given year.

## **STA457HI Time Series Analysis 39L**

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: ECO327YI/357YI/STA302HI

Recommended preparation: MAT235YI/237YI/257YI

## **STA496HI/ Readings in Statistics 497HI TBA**

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.

## **STA498YI/ Readings in Statistics 499YI TBA**

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.

**Toxicology: see Life Sciences:  
Pharmacology and Toxicology**

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Trinity College offers Trinity One, a set of first-year courses, an independent studies program, and three inter-disciplinary programs: Ethics, Society, and Law; Immunology; and 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, and Woodsworth College. The Specialist Program in Immunology is assembled from offerings by the Departments of Biochemistry, Immunology, Microbiology, and Molecular Genetics and Molecular Biology. The International Relations Program encompasses courses offered by the Departments of History, Political Science, and Economics.

## Trinity One

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. There are two streams in Trinity One, each linked to a prominent aspect of the College's intellectual identity. One of the streams focuses on international relations, the other on ethics. 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. Cocurricular events, drawing upon the resources of the Munk Centre for International Studies at Trinity College and the University of Toronto's Centre for Ethics (located at Trinity), enable students in both streams of Trinity One to hear guest speakers and to engage in informal conversation with one another and with their professors.

## Trinity College Programs

### Ethics, Society, and Law (Arts program)

Consult: Prof. John Duncan, Room 216, Larkin Building, Trinity College, 416-978-2165.

Enrolment is limited to students with a CGPA of 2.80 who have completed four courses.

### Major program

(7 full courses or their equivalent)

The following requirements apply to students who enrol in the program beginning in 2007-08 (starting in April 2008). The requirements in the 2006-07 Calendar apply to students who enrolled in the program prior to 2007-08.

1. PHL 271HI (recommended to be taken in the first year of registration in the program)
2. POL 200YI/PHL 265HI/PHL 275HI (to be taken in any year of registration in the program)
3. TRN 303HI (to be taken in the second year of registration in the program)
4. TRN 412HI (to be taken in the final year of registration in the program)
5. If POL 200YI is taken in satisfaction of requirement 2 above, then 4.5 full courses or the equivalent must be taken from Groups A-D, including at least one from each of Groups A-C and at least two at the 300+ level. If PHL 265HI/PHL 275HI is taken in satisfaction of requirement 2 above, then five full courses or the equivalent must be taken from Groups A-D, including at least one from each of Groups A-C and at least two at the 300+ level.

### Group A (Ethics)

PHL273HI,275HI, 281YI, 295HI, 341HI, 373HI, 375HI, 378HI,380HI, 381HI, 382HI, 383HI, 384HI, 394HI, 407HI; POL330HI; PSY314HI; RLG221HI,222HI, 223HI, 228HI; TRN311HI

### Group B (Society)

ANT 204YI; CSC 300HI; ECO 313HI, 332HI, 336YI, 340HI; ENV 447HI, GGR 233YI, 331HI, 393HI; HIS 332HI, 355HI; HPS 324HI; JGE 221YI; PHL 265HI, 365HI; POL 200YI, 214YI, 320YI, 404HI, 405YI, 412HI, 432HI; PSY 311HI, 321HI; SOC 203YI, 212YI, 215YI, 301YI, 306YI;WDW 200YI, 300HI, 320HI, 335HI, 340HI, 380HI, 385HI;WGS 373HI; ZOO 200YI

### Group C (Law)

CLA 336HI; ECO 320HI; ENV 422HI; NMC 484HI; PHL 370HI, 484HI; POL 319YI, 332YI, 337YI, 340YI; SMC 304HI, 361HI; SOC 213YI;TRN 305YI, 425YI;WDW220YI, 365HI, 420HI;WGS 365HI

### Group D (Further Courses)

RLG 309YI;TRN 200YI, 300HI, 301YI, 302YI, 400HI, 404YI, 405YI, 406HI/407YI

N.B. The above WDW courses are only available to students enrolled in the double major program Ethics, Society, and Law/ Criminology

### Immunology Studies:

Consult Prof. J.C. Zúñiga-Pflücker (416-978-0926)

For more information please see the entry under Life Sciences - Immunology

### Independent Studies

Consult Professor C. Kanaganayakam, Room 305, Larkin Building, Trinity College (416-978-8250).

The College's Independent Studies Program affords students the opportunity of investigating in depth topics of their own choice that are not directly part of the present curriculum. These topics normally involve interdisciplinary study, though under some circumstances they may require concentrated work in a single discipline. The scope of acceptable topics embraces the natural and social sciences as well as the humanities. Participation in the program is restricted to students who have completed at least ten courses. 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. Normally the work done is to be the equivalent of two full courses. Permission to register in an independent studies half course, or in an independent studies full course, will normally be granted only to students with a cumulative GPA of at least 3.50. Permission to undertake an independent studies project for the equivalent of two full courses will normally be granted only to students with a cumulative GPA of at least 3.70.

All proposals are subject to the approval of the Coordinator.

Students must submit to the Coordinator before the beginning of the academic year a copy of their academic transcript and an outline of their topic (signed by the supervisor) and a suggested bibliography. For evaluation of the work done in the program a short thesis or equivalent is required, prepared and

submitted by the last day of classes in the fall or winter session as appropriate. The supervisor and a second reader (nominated by the supervisor and approved by the Coordinator before the end of September) are responsible for the evaluation. The Coordinator will require regular progress reports throughout the year.

Either the supervisor or the second reader must be a tenured University of Toronto faculty member. A supervisor who is not a tenured University of Toronto faculty member will normally be required to be a full-time faculty member of the University.

Students enrolling for the first time register for one or more of TRN 300HI, 301YI, 302YI, or for one or more of TRN 400HI, 404YI, and 405YI, as appropriate. Those enrolling for a second time register in one or more of TRN 400HI, 404YI, and 405YI, as appropriate.

## **International Relations (Arts program)**

Consult the Office of the International Relations Program, Room 310N, Munk Centre for International Studies, 416-946-8950.

Enrolment in the Specialist Program is limited to students with a CGPA of 3.00, and a combined average of at least 67% in required first-year courses. A personal interview completes admission to the program.

### **Specialist program:**

(13 full courses or their equivalent, including at least two 400-series courses)

First Year:

ECO 100YI/105YI; HIS 103YI or TRN 150YI/151YI or two of VIC 181HI, 183HI, 184HI, 185HI; one introductory modern language course or MAT133YI/137YI

NOTE: Students who intend to apply for the Specialist program are strongly encouraged to take ECO 100YI; POL 108YI is optional, and can replace one of the POL options under 2nd, 3rd or 4th years below.

Second and Third Years:

1. POL 208YI (must be taken in Second Year)
2. ECO 230YI/328YI, 342YI; HIS 311YI, 344YI; POL 310YI/312YI/326YI/340YI

Second, Third or Fourth Year:

Normally two full course equivalents from: ANT 452HI; ECO 200YI, 202YI, 230YI/328YI, 303YI, 324YI; EUR 200YI; GGR 439HI; HIS 232YI, 241HI, 242HI, 250YI, 251YI, 271YI, 304HI, 327HI, 329HI, 334YI, 338HI, 343YI, 347HI, 376HI, 377YI; IAS 200YI; JMC 301YI; NMC 358HI, 378HI; POL 108YI, 201YI, 310YI, 312YI, 318HI, 323YI, 324YI, 326YI, 335HI, 340YI, 341HI, 342 HI, 343YI, 346HI, 370YI, 410HI, 467HI

Fourth Year:

Two full course equivalents from the following seminars: ECO 419HI, 429YI, 459HI; HIS 401YI, 405YI, 436HI, 445HI, 451HI, 453HI, 455HI, 457HI, 458YI, 471HI, 473YI, 479HI, 488HI, 492HI, 497YI, 498HI; JHP 400YI; JUP 460HI; JUP 460YI; NMC 474HI, 476HI; POL 401HI, 410HI, 412YI, 414HI, 415HI, 416YI, 417YI, 420YI, 435HI, 440YI, 441HI, 442HI, 445YI, 452YI, 453YI, 458HI, 459YI, 464HI, 465HI, 466HI, 467HI, 468HI, 469HI, 477HI, 486HI, 487HI, 495YI, 496HI; TRN 410YI, 411YI, 419YI, 421YI

Notes:

1. Language skills are vital for the study of international relations.
2. Nine full courses in the Program should be completed among the student's first 15 courses.
3. Students may change from Major to Specialist Programs only if they meet current Specialist requirements and if places are available.

### **Major program:**

(7 full courses or their equivalent)

Enrolment in the Major Program is limited to students with a CGPA of 2.70, and a combined average of at least 67% in required first-year courses. A personal interview completes admission to the program.

First Year: ECO 100YI/105YI, HIS 103YI or TRN 150YI/151YI or two of VIC 181HI, 183HI, 184HI, 185HI

Higher Years:

1. POL 208YI (must be taken in Second Year)
2. ECO 230YI/342YI, HIS 311YI, 344YI, POL 310YI/312YI/326YI/340YI

## **International Relations Program/Peace and Conflict Studies Program (Arts program)**

Consult the Office of the International Relations Program, Room 310N, Munk Centre for International Studies, 946-8950 or the Office of the Peace and Conflict Studies Program, Room H11, University College, 416-978-2485.

Admission to the Joint Specialist program requires students to complete specified first year courses plus the approval of the Directors of the International Relations Program and the Peace and Conflict Studies program through an interview. A limited number of students are accepted each year. Enrolment in the Joint Specialist Program is limited to students with a First-year CGPA of 3.00.

### **Joint Specialist program:**

(13 full courses or their equivalent, including at least two 400-series courses)

First Year:

ECO 100YI/105YI; HIS 103YI; PSY 100HI + PSY 220HI/ SOCI 101YI

Second Year:

ECO 230YI; POL 208YI; UNI 260YI

Third Year:

HIS 311YI/344YI; UNI 360Y

Fourth Year:

JUP 460YI plus

One full course equivalent from the following: HIS 458YI, 473YI, 479HI, 482HI, 488HI, 497YI, 498HI; TRN 421YI

Note: In addition, students must meet the Peace and Conflict Studies Program requirement of completing a cluster of 3 full course equivalents to be chosen in consultation with the Peace and Conflict Studies Program Director.

## Trinity College Courses

(Trinity One; Ethics, Society, & Law; Independent Studies; International Relations; Other)

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all TRN courses are classified as HUMANITIES courses except TRN 150Y1, 151Y1, 305Y1 and 425Y1, which are SOCIAL SCIENCE courses, and TRN 419Y1, which is both a HUMANITIES and a SOCIAL SCIENCE course.

### Trinity One

Students participating in Vic One are excluded from Trinity One.

#### TRN150Y1 National versus International 52S

This seminar examines the rise of nationalisms and nation states since the 16th century and the ways these intersect or compete with international movements, ideas and institutions. Topics may include the Enlightenment, the French Revolution, the birth of Germany, peace movements, the League of Nations, and humanitarian relief. Open only to students admitted to Trinity One.

Co-requisites: TRN151Y1 & a first-year course in History or Political Science or Economics or Sociology or a course with permission of the Coordinator.

This is a Social Science course.

#### TRN151Y1 Global Governance 52S

This seminar course provides an orientation to the study of contemporary world order. Topics may include important legacies of the world wars of the 20th century, theories of conflict and cooperation, and new forms of transnational collaboration. Open only to students admitted to Trinity One.

Co-requisites: TRN150Y1 & a first-year course in History or Political Science or Economics or Sociology or a course with permission of the Coordinator.

This is a Social Science course.

#### TRN170Y1 Ethics and the Creative Imagination 52S

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.

Co-requisites: TRN171Y1 & a first-year course in English or Philosophy or Political Science or a course with permission of the Coordinator.

#### TRN171Y1 Ethics and the Public Sphere 52S

A seminar course that explores ethical issues arising in such public domains as international relations, law, science, business, the arts, civil society, public life, the mass media, popular culture. Issues may include war crimes, human rights, assisted suicide, genetic engineering, corporate responsibility, private vice and public virtue, "the tragedy of the commons". Open only to students admitted to Trinity One.

Co-requisites: TRN170Y1 & a first-year course in English or Philosophy or Political Science or a course with permission of the Coordinator.

### Ethics, Society, and Law Courses

#### TRN 303HI Ethics and Society 26L

An exploration of the ethical dimensions of selected contemporary social issues. Students in the major program in Ethics, Society, and Law have enrolment priority.

Prerequisite: PHL 271HI

#### TRN305Y1 Basic Principles of Law 52L

The nature and justifications 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. Contract, torts, criminal and administrative law. (Enrolment limited: TRN305Y1 is not open to Commerce students. Commerce students should enrol in MGT393HI/394HI in which they have priority.)

Prerequisite: A student must be in third or fourth year.

This is a Social Science course

#### TRN311HI Ethics and Human Liberation 26S

The ethical implications of critical social theory, in particular that of the 'Frankfurt School'. The possibilities for justice and freedom in contemporary capitalism; the potential for social movements, such as the women's movement, for emancipatory transformation.

Recommended preparation: A half-course in ethics/women's studies/PHL267HI

#### TRN406HI/ Community Research Partnerships in Ethics 407YI

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 3.20. Enrolment is by application. See the Registration Handbook and Timetable for enrolment procedures.

#### TRN412HI Seminar in Ethics, Society, and Law (formerly TRN312HI) TBA

Prerequisite: Students must be in their final year of registration in the Major Program: Ethics, Society And Law. See the Registration Handbook and Timetable for enrolment procedures.

Recommended preparation: TRN305Y1/WDW220Y1/ equivalent background knowledge

Exclusion: TRN312HI

#### TRN425Y1 Law Workshops Course TBA

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.

This is a Social Science course.

### Independent Studies Courses

#### TRN299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 47 for details.

# Trinity College

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<b>TRN300HI</b>	<b>Trinity Independent Studies</b>	<b>TBA</b>
<b>TRN301YI</b>	<b>Trinity Independent Studies</b>	<b>TBA</b>
<b>TRN302YI</b>	<b>Trinity Independent Studies</b>	<b>TBA</b>
<b>TRN400HI</b>	<b>Trinity Independent Studies</b>	<b>TBA</b>
<b>TRN404YI</b>	<b>Trinity Independent Studies</b>	<b>TBA</b>
<b>TRN405YI</b>	<b>Trinity Independent Studies</b>	<b>TBA</b>

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## International Relations Courses

(See the International Relations Program Office for details)

<b>TRN410YI</b>	<b>Selected Topics in International Studies</b>	<b>TBA</b>
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Prerequisite: Enrolment in the International Relations specialist program or in a History or Political Science specialist program

Exclusion: TRN410HI

<b>TRN411YI</b>	<b>Selected Topics in International Studies</b>	<b>TBA</b>
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Prerequisite: Enrolment in the International Relations program or in a History major or specialist program, or permission of instructor

<b>TRN419YI</b>	<b>Comparative American, British and Canadian Foreign Policy</b>	<b>52S</b>
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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: Students must have a background in one of Canadian, British or American history.

This is a Humanities and a Social Science course.

<b>TRN421YI</b>	<b>The Practice and Institutions of Diplomacy (formerly JHP420YI)</b>	<b>52S</b>
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Evaluation of the nature of foreign policy negotiation and decision-making from the perspective of the practitioner.

Prerequisite: ECO342Y1/HIS311Y1/POL312Y1

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## Other Trinity College Courses

<b>TRN190YI</b>	<b>Critical Reading and Critical Writing</b>	<b>52S</b>
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This course introduces students to a number of critical approaches and develops the student's own responses to texts through an understanding of critical vocabulary and the art of close analytical reading. Students also learn how to make their own critical analysis more effective through oral presentations and written work.

<b>TRN200YI</b>	<b>Modes of Reasoning (formerly TRN200HI)</b>	<b>26L, 26S</b>
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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: PHL 247HI/PHI 247HI/TRN200HI

<b>TRN320YI</b>	<b>Freud and Freud's Critics</b>	<b>52S</b>
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An examination of psychoanalytic themes: drives, instincts, sexuality, femininity, individual and society, freedom and unfreedom, reason and irrationality; major Freudian concepts and critiques by Winnicott, Benjamin, Irigaray, Reich, Flax, Marcuse; the relevance of psychoanalytic theory to issues of personal freedom and social transformation.

**Ukrainian: see Slavic Languages and Literatures**

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## Faculty

### Professor

P. Kleber, MA, Ph D (Drama)

### Associate Professor

T. Homer-Dixon, BA, Ph D (Peace & Conflict Studies)

E. Gilbert, MA, Ph D (Canadian Studies)

### Assistant Professors

A. Ackerman, MA, Ph D (Drama)

A. Budde, MA, Ph D (Drama)

A. Egoyan, BA (Drama)

A. Janson, MA (Drama)

N. Kokaz, BA, Ph D (Peace & Conflict Studies)

J. Luo, MA, Ph D (Cognitive Science)

D. McGregor, MA, Ph D (Aboriginal Studies)

J. Saul, MA, Ph D (Canadian Studies)

C. Wesley-Esquimaux, MA, Ph D (Aboriginal Studies)

### Senior Lecturers

S. Bush (Drama)

K. Gass, BA (Drama)

A. McKay (Aboriginal Studies)

J. Plotnick, MA, M Sc (Writing Workshop)

R. Salutin, MA (Canadian Studies)

### Lecturers

S. Lyons, BA (Drama)

J. Vervaeke, MA, Ph D (Cognitive Science)

University College offers a number of programs and courses outside the areas traditionally covered by departments. These include programs and courses in Aboriginal Studies, Canadian Studies, Cognitive Science, Cognitive Science and Artificial Intelligence, Drama, Health Studies, Peace and Conflict Studies, and Sexual Diversity Studies, in addition to 199Y1 Seminars, and introductory courses for non-specialists in mathematics and physics. 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.

### The Aboriginal Studies Program (Major, Minor)

is described elsewhere in this Calendar, under Aboriginal Studies.

### The Canadian Studies Program (Specialist, Major, Minor)

offers opportunities to study Canadian culture and society in an interdisciplinary manner and to explore cultural, social, economical and political developments in this diverse country. Students in the Specialist and Major programs select courses from the Humanities or Social Sciences. They are encouraged to consider additional courses in Aboriginal Studies in completing the requirements of the Program.

### The Cognitive Science Program (Specialist, Major)

is an interdisciplinary exploration of the nature of cognition, drawing on the perspectives of Philosophy, Psychology, and Linguistics.

### The Cognitive Science and Artificial Intelligence Program (Specialist)

is an interdisciplinary exploration of the nature of cognition, drawing mainly on the perspectives of Computer Science and two of Linguistics, Philosophy, and Psychology.

### The Drama Program (Specialist, Major, Minor)

is described elsewhere in this Calendar, under Drama.

### The Health Studies Program (Specialist, Major)

focuses the many areas of study that surround, interact with and support bio-medical research and clinical activity in regard to health, including health policy, practices, research methods, and sociocultural expression. The Major serves as a general introduction; the Specialist provides a more intense research focus with more methodological emphasis.

### The Peace and Conflict Studies Program (Specialist, Major)

provides undergraduates with an interdisciplinary education in the causes of human conflict and strategies for its resolution; topics of study include war, revolution, rebellion, ethnic strife, international law, and negotiation theory.

### The Sexual Diversity Studies Program (Major, Minor)

allows students to focus on questions of sexual identity, difference, and dissidence across disciplinary lines and cultural frameworks.

UNI, DRM and ABS courses are staffed by a combination of specific program staff members and members of various University departments, and are open to all students of the University. Further information on University College programs is available from the College.

Enquiries: Programs Office, University College, Room 251 (416-978-6276)

## University College Programs

### Aboriginal Studies - See Aboriginal Studies

### Canadian Studies (Arts program)

Consult Programs Office, Room E103, University College, 416-978-8153 or visit the Canadian Studies website at [www.utoronto.ca/canstudies/](http://www.utoronto.ca/canstudies/).

Completion of four courses is required for enrolment in the Canadian Studies Specialist or Major program; no minimum GPA required.

### Specialist program:

(12 full courses or their equivalent including at least three 300+series full-year equivalent courses and at least one 400-series full-year equivalent course)

First Year:

One full course from the following list: ANT 100Y1; ECO 100Y1/105Y1; ENG 140Y1; FRE 140Y1; FSL 121Y1/161Y1/163H1/181Y1; GGR 107Y1/124Y1; POL 103Y1; SOC 101Y1

First or Second Year:

1. UNI 220Y1; HIS 263Y1
2. One full course equivalent from FSL 161Y1/163H1/181Y1/183H1/261Y1/262Y1/264Y1/281Y1/ABS210Y1/310Y1

# University College

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Higher Years:

1. UNI 320Y1, 420Y1
2. Six full course equivalents from one or both of the two perspectives listed below. Suitable courses not on the list may be considered. Course selections require approval from the Canadian Studies Programs Office.

## Major program:

(8 full courses or their equivalent including at least two 300+series courses)

First Year:

One full course from the following list: ANT 100Y1; ECO 100Y1/105Y1; ENG 140Y1; FRE 140Y1; FSL 121Y1/161Y1/163H1/181Y1; GGR 107Y1/124Y1; POL 103Y1; SOC 101Y1

First or Second Year:

UNI 220Y1; HIS 263Y1

Higher Years:

1. UNI 320Y1
2. Four full course equivalents from either one of the two perspectives listed below, one of which must be a 300+series course. Suitable courses not on the list may be considered. Course selections require approval from the Canadian Studies Programs Office.

## Minor program:

(4 full courses)

1. One full course from the following list: ANT 100Y1; ECO 100Y1/105Y1; ENG 140Y1; FRE 140Y1; FSL 121Y1/161Y1/163H1/181Y1; GGR 107Y1/124Y1; POL 103Y1; SOC 101Y1
2. UNI 220Y1; HIS 263Y1
3. UNI 320Y1

## Humanities Perspectives on Canada

Humanities courses with a focus on Canada offered by University College and other departments and interdisciplinary programs including Aboriginal Studies, Cinema Studies, Drama, English, Fine Art, French, History, Italian Studies, Religious Studies and Slavic Studies. For a list of courses fitting under this rubric, please consult the Canadian Studies website at [www.utoronto.ca/canstudies/](http://www.utoronto.ca/canstudies/).

## Social Science Perspectives on Canada

Social Science courses with a focus on Canada offered by University College and other departments and interdisciplinary programs including Aboriginal Studies, Anthropology, Economics, Geography, Political Science, Sociology and Urban Studies. For a list of courses fitting under this rubric, please consult the Canadian Studies website at [www.utoronto.ca/canstudies/](http://www.utoronto.ca/canstudies/).

## Cognitive Science (Arts program)

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Consult the Programs Office, Room A102, University College, 416-946-3391 or visit the Cognitive Science website at [www.cogsci.utoronto.ca](http://www.cogsci.utoronto.ca).

Admission in the Specialist program requires (1) 70% or better in PHL201H1 or 63% or better in one of the following: UNI250Y1, ANT100Y1, LIN100Y1, PHL100Y1, or PSY100H1; and (2) a GPA of 2.0. Completion of four full course equivalents is required for admission in the Major program; no minimum GPA required.

Students enrolled in the Specialist and Major program who have taken UNI250Y1 are permitted to take the PSY courses listed in the program without taking PSY100H1. Students should explore combining this program with a Major in Anthropology, Computer Science, Linguistics, Philosophy, or Psychology.

## Specialist program:

(12 full courses or their equivalent, including at least one 400-series full course equivalent)

First Year:

CSC 107H1/108H1/150H1; UNI 250Y1; LIN 100Y1; PHL 240H1

Second Year:

LIN 228H1/232H1/JAL 253H1; HPS 250H1; PHL 245H1; PSY 201H1/STA 220H1/250H1; PSY 270H1, PSY 210H1/280H1/290H1

Second and Third Years:

UNI 301H1, 302H1

Third and Fourth Years:

Cognitive Science: UNI401H1; UNI 402

Psychology: PSY370H1; two of PSY 312H1/316H1/371H1/372H1/380H1/393H1

Linguistics: one of JLP 315H1/374H1/471H1/LIN

323H1/331H1/341H1/372H1/423H1

Philosophy: PHL 342H1; PHL 340; one of PHL

325H1/326H1//344H1/345H1/347H1/349H1/351H1/479H1/480H1/481H1

0.5 additional full course equivalents from among the above

listed courses not yet taken, or from the following list:

UNI402H1, 403H1; PSY 379H1, 389H1, 392H1, 396H1, PSY410H1, 472H1, 473H1. (With the permission of the Program Director; the following may also be counted: LIN495Y1-499H1; PHL490Y1, 496H1-499H1; PSY303H1, 304H1, 401H1-404H1, 470H1, 471H1, 480H1, 490H1.)

NOTE: Some courses listed in the paragraph above have prerequisites or recommended preparation not included in this program. Students interested in speech recognition should take LIN323H1 and LIN423H1; in cognitive development PSY210H1, 312H1, 410H1, and JLP315H1; in the brain PHL340H1, PSY290H1, 391H1, 393H1, and 490H1; in perception PSY 280H1, 380H1, and 480H1; in language and thought PHL 351H1, 451H1, and LIN 372H1; in psycholinguistics JLP 315H1 and 471H1; in thinking and reasoning PHL 247H1, PSY 371H1, 472H1, and 473H1.

## Major program:

(7 full courses or their equivalent)

First Year:

UNI 250Y1; LIN 100Y1; PHL 245H1

Second Year:

PSY 201H1/STA 220H1/250H1; PSY 270H1; PSY 210H1/280H1/290H1

Second and Higher Years:

Cognitive Science: UNI 301H1 (optional), 302H1, HPS 250H1

Psychology: PSY 312H1/316H1/370H1/371H1/372H1/380H1/393H1/410H1

Linguistics: JLP 315H1/374H1/LIN 228H1/372H1

Philosophy: PHL 325H1/326H1/340H1/342H1/344H1/345H1/347H1/349H1/351H1/479H1/480H1/481H1

Third or Fourth Year:

UNI 402H1 (optional), 403H1 (optional), 450H1

## Cognitive Science and Artificial Intelligence (Science program)

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Consult the Programs Office, Room A102, University College, 416-946-3391 or visit the Cognitive Science website at [www.cogsci.utoronto.ca](http://www.cogsci.utoronto.ca).

Admission in this program requires (1) 63% or better in CSC148H1/150H1 or 63% or better in UNI250Y1 or

PSY100HI; and (2) a GPA of 2.0. Students enrolled in this program who have taken UNI250YI are permitted to take the PSY courses listed in the program without taking PSY100HI. Students should explore combining this program with a Major in Anthropology, Computer Science, Linguistics, Philosophy, or Psychology.

### Specialist program:

(13 full courses or their equivalent, including at least one 400-series full course equivalent)

First Year:

CSC 148HI/150HI, 165HI/240HI\*; UNI 250YI; MAT 135YI/136YI/137YI/157YI

Second Year:

CSC207HI, 236HI/240HI\*; HPS 250HI; PSY 270HI;  
\* CSC240HI is an accelerated alternative to CSC165HI and CSC236HI, intended for students with a strong mathematical background. Consult the Computer Science undergraduate office for further advice.

Second and Higher Years:

STA 247HI/255HI/257HI  
UNI 301HI/CSC 321HI, UNI 302HI; CSC 324HI; CSC 384HI; PSY 371HI

Two of the following course sequences:

Psychology Stream: PSY 201HI/210HI/280HI/290HI, 370HI/ STA220HI/250HI/261HI, one of PSY 312HI/316HI/ 372HI/380HI/391HI/392HI/393HI/470HI/471HI/472HI/ 473HI

Linguistics Stream: LIN 100YI; one of JLP 315HI/374HI/LIN 323HI/331HI/341HI/372HI/423HI

Philosophy Stream: PHL 245HI, 340HI/342HI

One additional half course from among the above listed course not yet taken or CSC318HI, 320HI, 330HI

I, CSC321HI, 324HI, 340HI, 363/365HI, 373/375HI, 401HI, 420HI, 428HI, 448HI, 465HI, 485HI, 486HI, 487HI; JLP471HI; PSSSY379HI, 389HI, 392HI, 396HI, 410HI, 472HI, 473HI.

Third or Fourth Year:

UNI 450HI; UNI 402; UNI 403

NOTE: Some courses listed in the paragraph above have prerequisites or recommended preparation not included in this program. Students interested in speech recognition should take LIN228HI, LIN323HI, and LIN423HI; in cognitive development PSY312HI, PSY410HI and JLP315HI; in the brain PHL340HI, PSY290HI, PSY391HI, PSY393HI, and PSY490HI; in perception PSY280HI, PSY380HI, PSY480HI and CSC487HI; in language and thought PHL 350HI, 450HI; LIN372HI, and CSC485HI; in psycholinguistics JLP315HI and JLP471HI; in thinking and reasoning PHL247HI, PSY471HI, PSY472HI, PSY473HI, and CSC486HI.

**Drama: see Drama**

### Health Studies (Arts program)

Consult the Program Office at University College, Room A102, 416-946-3391.

### Specialist Program:

10 full courses or their equivalent, with at least three full courses from Group A. Only second, third and fourth year courses count toward the Program requirement.

Enrolment in the Specialist program is limited to 20 students

per year. Students enrol at the end of Second Year, after entering the Major program at the end of First Year. Entry Requirements: 1) students must have completed 8.5 courses and be enrolled in the Health Studies Major program; 2) UNI200YI (minimum grade 70%), 3) competitive CGPA.

First Year:

No specific courses required. (Students are advised to take introductory courses that will serve as prerequisites for optional courses of interest to them later in the program, e.g. ANT100YI, POL 102YI/POL103YI, PSY100HI, SOC101YI.) A course in biology or physiology is also recommended.

Second Year:

UNI200HI, 210HI, plus two full courses (or equivalent) chosen from different groupings (see below)

Third Year:

UNI300HI, UNI310HI, plus two full courses (or equivalent) chosen from different groupings (see below)

Fourth Year:

UNI400YI; plus three full courses (or equivalent) chosen from different groupings (see below)

### Major Program:

7.0 full courses or the equivalent, including at least two designated 300-series courses, with at least 3.5 full courses from Group A. Only second, third and fourth year courses count toward the Program requirement.

Enrolment in the Major program is limited. Entry Requirements: 1) four full courses or their equivalent; 2) competitive CGPA.

First Year:

No specific courses required. (Students are advised to take introductory courses that will serve as prerequisites for optional courses of interest to them later in the program, e.g. ANT100YI, POL 102YI/POL103YI, PSY100HI, SOC101YI.) A course in biology or physiology is also recommended.

Second Year:

UNI200HI, 210HI; plus two full courses from different groupings

Third and Fourth Years:

UNI300HI, UNI310HI plus three full courses from different groupings, including UNI400YI if desired.

### GROUP A - UNI COURSES

UNI370HI	Psychology of Physical Activity and Sport
UNI371HI	Physical Activity and Social Inequality
UNI373HI	Population Health
UNI409HI	Special Topics in Health Research
UNI410HI	Communities and Community Health
UNI440HI	Epidemiology**
UNI446HI	Case Studies in Health Policy
UNI450HI	Independent Research on Health Topics
UNI451YI	Independent Research on Health Topics
UNI462HI	Health Care
UNI464HI	International Health
UNI470HI	Health Psychology
UNI471HI	Physical Activity, Health and the Media
UNI472HI	Body, Health and Culture
UNI473HI	Physical Activity in the Ancient and Early Modern World
UNI474HI	Health Topics in Literature
UNI476HI	Socio-history of Health Processes

## GROUP B - ETHICS

PHL281YI	Bioethics
PHL381HI	Ethics and Medical Research
PHL382HI	Ethics: Death and Dying
PHL383HI	Ethics and Mental Health
PHL384HI	Ethics, Genetics and Reproduction
PHL273HI	Environmental Ethics
PHL373HI	Issues in Environmental Ethics
PHL240HI	Persons, Minds and Bodies
PHL243HI	Philosophy of Human Sexuality
PHL295HI	Business Ethics

## GROUP C - PHYSICAL AND MENTAL HEALTH

NEW367HI	Women and Health
SOC243HI	Sociology of Health and Illness
SOC246HI	The Sociology of Aging
ZOO200YI	Aspects of Human Biology *
JFP450HI	First Nations Issues in Health and Healing
HMB202HI	Introduction to Health and Disease
NFS284HI	Basic Human Nutrition
NFS490HI	Socio-cultural Aspects of Nutrition
PSY333HI	Health Psychology
PSY335HI	Environmental Psychology
PSY336HI	Positive Psychology
JZP326HI	Biological Rhythms
PSY323HI	Sex Roles and Behaviour
PSY324HI	Social Psychology of Interpersonal Relationships
SOC363HI	Sociology of Mental Health and Mental Disorders

## GROUP D - POLICY

ABS350YI	Aboriginal Health Systems*
IDSB04H3	International Health Policy Analysis (UTSC course)
ANT362YI	Anthropological Studies of Poverty, Social Inequality and the U.S. State *
HIS463HI	The History of Health Care in Canada, 1800 to the Present
POL347YI	Politics and Environment in the North and South *
POL350HI	Comparative Health Politics and Policy
SOC309YI	HIV and AIDS: Social Policies and Programs*
SOC244HI	Sociology of Health Care
SOC352HI	Introduction to Canadian Health Care Policy
SOC354HI	Emergent Issues in Health and Social Policies

## GROUP E - ENVIRONMENTAL

INI341HI	Environment and Human Health
RLG311HI	World Religions and Ecology
JAG321HI	Aboriginal People and Environmental Issues in Canada
GGR330HI	Atmosphere and Human Health
GGR334HI	Water Resource Management
GLG103HI	Geology in Public Issues
HPS328HI	Environment, Science and Crisis
ANT364YI	Environment & Globalization*
BOT202YI	Plants and Society*
ENV200YI	Assessing Global Change: Science and the Environment *
ENV236YI	Human Interactions with the Environment *

## GROUP F - SOCIAL/GLOBAL ISSUES

ANT348YI	Anthropology of Health *
ANTC61H3	Medical Anthropology: Illness and Healing in Cultural Perspective (UTSC course)

SOC364HI	Urban Health
ANT364YI	Environment & Globalization *
ANT342HI	Sexuality and Global Health
GLG205HI	Confronting Global Change
NFS490HI	Socio-Cultural Aspects of Nutrition
WDW378HI	Employment Health
SOC327YI	Families and Health*

Asterisked (\*) courses will fulfill the requirement of either of two group areas (but not both), as follows:

ABS350YI	Aboriginal Health Systems (Group D and F)
ANT348YI	Anthropology of Health (Group C and F)
ANT362YI	Anth Studies of Poverty, Social Inequality (etc) (Groups D and F)
ANT364YI	Environment & Globalization (Group E and F)
BOT202YI	Plants and Society (Group E and F)
ENV200YI	Assessing Global Change: Science and Environment (Group E and F)
ENV236YI	Human Interactions with the Environment (Group E and F)
POL347YI	Politics and Environment in the North and South (Group D and E)
SOC309YI	HIV and AIDS: Social Policies and Programs (Group D and F)
SOC327YI	Families and Health (Group C and F)
ZOO200YI	Aspects of Human Biology (Group C and E)

## Peace and Conflict Studies (Arts program)

Consult Program Assistant, Room H11, University College, 416-978-2485.

Enrolment in the Specialist and Major programs is limited; selection is based on a personal interview and GPA. To apply, students must have completed ANY four full courses, or their equivalent. The Director approves each student's proposed program of study based on its relevance, coherence and focus.

### Specialist program:

(12 full courses or their equivalent, including at least one 400-series course)

1. HIS 103YI/ECO 100YI/105YI(PSY 100HI + PSY 220H)/SOC 101YI; POL 208YI
2. UNI 260YI, 360YI, JUP 460YI
3. Three courses from one of Groups A, B, C, D, E or F (below); at least one course must be at the 300+ series level
4. Three complementary courses with either a disciplinary, regional, or thematic focus relevant to Peace and Conflict Studies (on approval of the Director); at least one must be at the 300+ level

### Disciplinary focus:

3 courses from one of ANT, ECO, GGR and Environmental Studies (combined), HIS, HPS, PHL, POL, PSY, RLG, SOC. (Note: HIS is excluded for students who have taken 3 HIS courses in 3. above; POL is excluded for students who have taken 3 POL courses in 3. above.)

### Regional Studies focus:

3 courses on, for example, Canada, Southern Africa, the Middle East, or Latin America.

## Thematic focus:

3 courses on a topic such as negotiation and conflict resolution, diplomatic history, gender and conflict, morality of war, quantitative analysis, group-identity conflict, economic development and conflict, or environmental change and conflict.

### Group A

HIS 103YI, 106YI, 202H, , 232YI, 241HI, 242HI, 243HI, 244HI, 250YI, 251YI, 271YI, 296Y, 303YI, 311YI, 317HI, 319HI, 325HI, 333YI, 334YI, 338YI, 343YI, 344YI, 351HI, 355YI, 356HI, 359H, 370HI, 372HI, 377YI, 379HI, 386YI, 390YI, 396HI, 401YI, 405YI, 407HI, 408Y, 412YI, 414HI, 415H, 421YI, 424YI, 429YI, 436YI, 442YI, 445HI, 451HI, 453HI, 458YI, 461HI, 473HI, 475HI, 480HI, 488HI, 491YI, 492YI, JHP435Y, 440Y, TRN421YI

### Group B

JHP 440YI, JPE 400YI, POL 108YI, 201YI, , 242YI, 300HI/YI, 301YI, 304HI, 305YI, 310YI, 312YI, 313YI, 321HI, 323YI, 324YI, 326YI, 340YI, 342HI, 343YI, 345HI, 346HI, 347YI, 354HI, 358YI, , 364HI, 370Y, 405YI, 412YI, 416YI, 417YI, 419YI, 422YI, 428HI, 429YI, 435HI, 445YI, 447YI, 448HI, 459YI, 463YI, 464HI, 465HI, 467HI, 468HI, 469HI, 476HI, 479HI, 480HI, 486HI, 487HI

### Group C

JLP 374HI, 471HI, PSY 100HI, 201HI, 210HI, 220HI, 270HI, 280HI, 300HI, 301HI, 311HI, 312HI, 314HI, 320HI, 321HI, 322HI, 324HI, 326HI, 328HI, 334HI, 370HI, 372HI, 420HI, 471HI, 472HI, 473HI

### Group D

ENV 200YI, 234YI, 235YI, 321YI, GGR 107YI, 124YI, 203HI, 220YI, 233YI, 312HI, 314HI, 331HI, 338HI, 343HI, 364HI, 368HI, 393HI, 409HI, 415HI, 439HI, 452HI, 333HI, 398H0/399Y0, 418HI, 435HI, 494HI, JIE 222YI, PHL 273HI, 373HI

### Group E

ANT 100YI, 204YI, , 329YI, 343YI, 349HI, 362YI, 363YI, 364YI, 366HI, 368HI, 395Y0/396Y0, 425HI, 426HI, 427HI, 440HI, 448HI, 450HI, 452HI, SOC 205YI, 210YI, 212YI, 213YI, 215YI, 220YI, 250YI, 301YI, 306YI, 312YI, 320YI, 330YI, 336HI, 344YI, 355YI, 356YI, 360YI, 365YI, 367HI, 386YI

### Group F

JPP 343YI, PHL 230HI, 232HI, 235HI, 240HI, 244HI, 247HI, 271HI, 273HI, 275HI, 317HI, , 340HI, 341HI, 342HI, 351HI, 357HI, 365HI, 370HI, 373HI, 375HI, 378HI, 380HI, 394HI, RLG 333HI, UNI250HI

## Major program:

(7 full courses or their equivalent)

1. HIS 103YI/ECO 100YI/105YI; (PSY 100HI + PSY 220H)/SOC 101YI; POL 208YI
2. UNI 260YI, 360YI
3. Two complementary courses, at least one of which must be at the 300+ series level, from:  
ECO 230YI, GGR 439HI, HIS 241HI, 242HI, 343YI,

344YI, 377YI, 401YI, 412YI, 445HI; HPS 306HI; PHL 378HI; POL 201YI, 304HI, 310YI, 313YI, 321HI, 323YI, 326YI, 340YI, 346HI, 417YI, 454YI; PSY 220HI, 270HI, 322HI; RLG 100YI; SOC 210YI, 330YI; or alternative courses on the approval of the Program Director

## Joint International Relations Program/Peace and Conflict Studies Program - See Trinity College

## Sexual Diversity Studies (Arts program)

Consult Program Assistant, Room 251, University College, 416-978-6276.

Completion of four courses is required for enrolment in the Sexual Diversity Studies program. Students enrolling in the program should confer with the Program Director at their earliest convenience.

Additional courses may be approved by the Program Director on an individual basis. Students are responsible for checking co- and prerequisites for courses from Group A and Group B.

## Major program:

(6 full courses or their equivalent; 2.0 full-course equivalents must be at the 300+ level)

1. UNI255HI, UNI256HI
2. At least one of UNI354HI, UNI355HI
3. At least two of POL315HI, UNI365HI, ENG273YI
4. At least two full course equivalents from Group A.
5. Any remaining course requirements may be drawn from Group B to a total of 6.0 FCE.

N.B. At least two full course equivalents must be drawn from courses at the 300+ level.

## Minor program:

(4 full courses or their equivalent)

1. UNI 255HI/256HI
2. Choose between option a) and b)  
a) At least two of ENG273YI/POL315HI/UNI354HI  
b) At least two of ENG273YI/POL315HI/UNI355HI
3. Remaining requirements from any combination of courses from Group A and Group B to a total of 4.0 FCE.

## Group A:

ANT366YI, ENG273YI, ENG290YI, GGR363HI, JAL355HI, NEW240YI, NEW261YI, NEW374HI, PHL243HI, POL315HI, SOC309YI, SOC367HI, UNI354HI, UNI355HI, UNI365HI, UNI375HI, UNI455HI, UNI475HI, VIC343YI, VIS202HI, VIS208HI, WDW380HI

## Group B:

ANT323YI, ANT343YI, ANT427HI, ENG250YI, ENG339HI, ENG349HI, ENG254YI, ENG361HI, FRE315HI, FRE326YI, GGR124YI, GGR327HI, GGR362HI, HIS245YI, HIS363HI, HIS375HI, HIS383HI, HIS447YI, HIS459HI, HIS476YI, INI323YI, INI330YI, INI385YI, JPP343YI, NEW160YI, NEW271YI, NEW360YI, NEW365HI, NEW368HI, NEW369HI, PHL267HI, PHL271HI, POL216HI, POL332YI, POL344YI, POL364HI, POL432YI, PSY323HI, RLG236HI, RLG237HI, RLG309YI, RLG314HI, SOC214HI, SOC365YI, UNI220YI, VIS209HI, VIS217HI, VIS218HI, VIS302HI, VIS318HI, VIS319HI

# University College

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## University College Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), UNI courses are variously classified; see entry at end of each course.

### Canadian Studies Courses

#### **JWU200HI Toronto in the Canadian Context 26L**

Toronto is a complex urban region marked by social diversity and a multi-textured cultural scene. This course examines Toronto's history, culture, society, economy and status as a global city within the Canadian context. This is a Humanities or Social Science course.

#### **UNI201HI Aspects of Québec Society 26S**

Contemporary Québec from social, economic and political perspectives.

This is a Social Science course

#### **UNI202HI Aspects of Québec Culture 26S**

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.

This is a Humanities course

#### **UNI205HI Topics in Canadian Studies I 26L**

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 web site at [www.utoronto.ca/canstudies](http://www.utoronto.ca/canstudies).

This is a Humanities or Social Science course.

#### **SOC218Y1 Asian Communities in Canada 52L (formerly SOC342Y1)**

The course will explore the structures and processes of Asian communities in Canada. Historical development of various Asian communities will be explored. Other topics include ethnic economy, ethnic media, ethnic churches, and ethnic voluntary organizations in Asian communities. Experts in related topics are invited to present their research findings. Non-sociology students may seek departmental permission to enrol.

Exclusion: SOC 342Y1/394Y1

This is a Social Science course

#### **UNI218HI Voices in Canadian Writing 26S**

A study of the variety of voices in Canadian fiction. Issues such as marginalization and the formulation of the Canadian canon are discussed.

This is a Humanities course

#### **UNI220Y1 Understanding Canada Today: 52L, 26T Re-Imagining the Nation**

An introduction to key events and issues in contemporary Canada. This course provides a multi-disciplinary perspective on a wide range of topics such as constitutional reform; multiculturalism and immigration; social welfare; environmentalism; globalization; economic policy; gender and sexuality; arts and culture.

This is a Humanities or a Social Science course

#### **UNI221HI Culture and the Media in Canada 26L**

An exploration of the encounter between culture and mass communication in Canadian society. The course includes a consideration of the major institutions affecting culture such as

the CBC, the NFB, and the granting bodies, and largely focuses on particular instances and case studies in the arts and media. Emphasis is placed on the changing role of nationalism, and the relationship between political concerns and Canadian culture. This is a Social Science course

#### **UNI304HI Beyond Multiculturalism: 26S Ethnicity and Race in Canada**

A multidisciplinary examination of the emergence of new approaches to identity and community that go beyond official bilingualism and multiculturalism. To include cultural/literary works as well as historical and social scientific analyses illuminating relations between cultural and racial communities in post 1960's Canada, with an emphasis on Toronto.

Prerequisite: UNI 220Y1 or two courses on the study of Canada

This is a Humanities or a Social Science course

#### **UNI305HI Topics in Canadian Studies 2 26L**

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 web site at [www.utoronto.ca/canstudies](http://www.utoronto.ca/canstudies). This is a Humanities or Social Science course.

#### **UNI307Y1 Asian Cultures in Canada 52L**

An exploration of the cultural histories and creative production specific to a wide range of Asian communities in Canada.

Content will present humanities perspectives according to the instructor's specialty. Experts in specific areas—literature, dance, drama, film—will be invited to present their work.

Recommended Preparation: UNI 220Y1

#### **UNI317Y1/ Politics of Aboriginal 52L/26L 317HI Self-Government**

A survey of some of the main issues surrounding the politics of aboriginal self-government in Canada. Proceeding historically, the course examines the legal and political conditions that have fuelled the call for self-government. (Offered in alternate years)

Prerequisite: ABS201Y1/POL102Y1/I03Y1/UNI220Y1 or permission of the instructor

This is a Social Science course

#### **JUG320HI The Canadian Wilderness 26L**

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. (Offered by University College and the Geography Department.)

This is a Social Science course

#### **UNI320Y1 Canadian Questions: Issues and 52L Debates**

An in-depth study of selected questions facing contemporary Canada. Students are encouraged to examine topics from multiple disciplinary perspectives drawn from the Social Sciences and Humanities. Issues addressed in recent years include: multiculturalism in contemporary film; residential schools; African Canadian culture; North American integration; citizenship and global cities; genetics and cloning.

This is a Humanities or a Social Science course

#### **UNI325HI Queerly Canadian 26L**

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: UNI255HI/UNI256HI or UNI220YI or permission of instructor

Exclusion: UNI375HI Special Topics: Queerly Canadian  
This is a Humanities course

## **UNI420YI Senior Essay 52S**

Students select an appropriate research topic and, in consultation with the Program Director, make arrangements with a suitable supervisor. Research projects must be approved by the supervisor preferably 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.

Prerequisite: Open only to Majors and Specialists in the Canadian Studies program

## **UNI430HI Senior Seminar: Special Topics in Canadian Studies 26S**

An upper level seminar. Topics vary from year to year depending on instructor.

Prerequisite: UNI220YI or two courses on the study of Canada

### **Cognitive Science & Artificial Intelligence Course**

#### **UNI250YI Introduction to Cognitive Science 78L (formerly JUP250YI)**

An introduction to the problems, theories and research strategies central to the interdisciplinary field focussing 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. (Offered by University College and the Department of Philosophy)

Exclusion: JUP250YI

This is a Humanities course

#### **UNI301HI Exploring Artificial Intelligence Models & Programs 13L, 26P (formerly JUP301HI)**

A hands-on course for students with some programming background to enable direct understandings of programs in traditional AI, neural networks, genetic algorithms, artificial life, dynamic systems, and robotics. Simple and classical algorithms are demonstrated, and students will learn to operate and extend them. This course gives second- and third-year students experience of working models that they have read about, and can also serve as an introduction to programming in artificial intelligence and cognitive science.

Prerequisite: CSC107HI/108HI or Instructor's permission

Co-requisite: UNI250YI

Exclusion: JUP301HI

This is a Science course.

#### **UNI302HI Bases of Cognition 39L (formerly JUP302HI)**

Extending the depth of understanding of conceptual issues in cognitive science, including intentionality, semantics, mechanism, and consciousness. Students study primary literature, including Descartes, Turing, Chomsky, Brooks, Dennett, Searle, et al. and they elaborate their own conceptual frameworks in cognitive

science. Co-requisite: UNI250YI

Exclusion: JUP302HI

This is a Humanities course.

#### **UNI401HI Advanced Cognitive Science 26S (formerly JUP450HI)**

A seminar on the following questions: "What is consciousness? What does it take for a creature to be conscious? What is objectivity? How may a creature be objective?" Students bring to bear on these questions their diverse background in analytic philosophy, anthropology, artificial intelligence, connectionism, linguistics, neuroscience, phenomenology, or psychology. Readings cover visual perception, spatial navigation, attention, working memory, reference, object permanence, evolution of language, the frame problem, the binding problem, and the qualia problem.

Prerequisite: UNI302HI or permission on the instructor

Exclusion: JUP450HI

#### **UNI402HI Theoretical Psychology 52L26P**

An introduction to the techniques of theory simplification, amplification, integration, and generation, which provide a bridge between psychology and the philosophy of science. Emphasis is placed on the skills of critical thinking and theory analysis needed to support these techniques and to build a methodology for cognitive science.

Prerequisite: UNI 250YI

This is a Science course

#### **UNI403HI Introduction to Cognitive Robotics 13L, 26P**

A hands-on course to advance practical skills and theoretical understanding through challenging students to a series of cognitively significant robotics tasks in realistic settings. Students bring to bear on robot construction their prior study in artificial intelligence, psychology, and philosophy and develop a strong background for thinking about embeddedness and embodiment issues that have been at the centre of recent cognitive science.

Prerequisite: UNI301HI or permission from instructor

This is a Science course

### **Health Studies Courses**

Students enrolled in the Health Studies program are given the first opportunity to enroll in these courses.

#### **UNI200HI Introduction to Research Methods in Health Studies 39L (formerly UNI200YI)**

This course will offer students in Health Studies a basic understanding of research design and data collection on health topics and the usefulness of data collection in the formation of health policy.

Exclusion: POL 242YI, SOC 200HI, UNI200YI, WDW 350YI

This is a Social Science course

#### **UNI210HI Introduction to Statistical Analysis in Health Studies 39L (formerly UNI200YI)**

This course will offer students in Health Studies a basic understanding of statistical data analysis, data interpretation, and the use of such data in the formation of health policy.

Exclusion: POL 242YI, SOC 202HI, UNI200YI, WDW 350YI

This is a Social Science course

**UNI300HI Canadian Health Care Policy 26L**  
(formerly UNI300Y)

This course introduces students to development and issues related to Canadian health care policy. The course examines basic policy making process; policy making process in Canadian context; development of Canadian health care policy; and current health care reform debates and issues. Health care is increasingly contentious with aging population, advancements in medical technology, government fiscal restraints. How to achieve best health care given limited resources, and ensure fair, equal, accessible health care. Overview of current policy issues and its relationship to social inequality, gender, and race, provide analytical tools for understanding.

Exclusion: SOC 351Y1, 352H1, UNI300Y

Prerequisite: UNI 200HI, 210HI

This is a Social Science course

**UNI309HI Special Topics in Health Studies 26L**

Study of a particular topic in Health Studies. The specific content of this course will vary from one year to another, depending on the availability of particular health researchers and scholars. In a given year, the course may focus on HIV/AIDS, tobacco addiction, nutritional issues, or gerontology and health problems related to the aging process.

**UNI310HI Emerging issues in Health and Social Policies 26L**  
(formerly UNI300Y)

This course explores emerging issues in health and social policies. Using the framework of social determinants of health, this course examines the implications of social factors such as socio-economic inequity, gender, race, homelessness, age, and citizenship status on individual health; and policy options to address these issues.

Exclusion; UNI300YI

**UNI370HI Psychology of Physical Activity and Sport 39L**

This course develops the students' understanding of individual behaviour towards physical activity, sport and play. While the focus is on the individual participant, the course also examines the basic psychological theories underlying behaviour.

Exclusion: PHE 300HI

Corequisite: UNI 200HI, 210HI

This is a Social Science course

**UNI371HI Physical Activity and Social Inequality 26L, 13T**

Opportunities for physical activity are profoundly affected by the social structures of Canadian society and persistent inequalities. This course enables students to study the effects of class, gender, race, and sexuality upon opportunities, programs and practices and the means by which social equity might be more effectively pursued.

Exclusion: PHE 301HI

Corequisite: UNI 200HI, 210HI

This is a Social Science course

**UNI373HI Population Health 39L**

This issue-oriented course will extend students' understanding of the broad definitions of health and its determinants, and 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; the major causes of morbidity

and mortality; the concept of "community health", and the opportunities and constraints facing public policy.

Exclusion: PHE 312HI

Corequisite: UNI 200HI, 210HI

This is a Social Science course

**Note**

Students enrolled in the Health Studies program are given the first opportunity to enroll in these courses.

**UNI400YI Practicum in Health Studies TBA**

Individual field placement with a health research or administration professional, in which the student applies theory and skills to a specific project. Culminates in an oral and written report.

This is a Social Science course

**UNI409HI Special Topics on Health Research 26S**

The specific content of this course will vary from one year to another, depending on the availability of particular health researchers and scholars. In a given year, the course may focus on AIDS, tobacco addiction, nutritional issues in low-income countries, and the persistence of infant health problems in poor Canadian communities.

This is a Social Science course.

**UNI410HI Communities and Community Health 26S**

This course is about the formation and growth of communities –about their social organization and the problems that small and vulnerable communities often face. There will be a focus on problems of poverty, social marginality, and powerlessness, and the health consequences of these for community members.

Prerequisite: UNI 200HI, 210HI

This is a Social Science course.

**UNI440HI Epidemiology 26S**

This course aims to provide an introductory understanding of the basic concepts and methods in epidemiology. The emphasis will be 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: UNI 200HI, 210HI

Recommended preparation: UNI 373HI

This is a Social Science course.

**UNI446HI Health Care 26L**

Cultural dimensions of health and illness and their significance for health professionals; cross-cultural communication; assessment of clients from culturally diverse backgrounds; delivery of culturally sensitive health care.

This is a Social Science course

**UNI462HI Case Studies in Health Policy 26L**

Formulation and implementation of public policy using studies focused on theoretical concepts; comparisons of policy alternatives.

This is a Social Science course

**UNI464HI International Health 26L**

A course intended to widen the horizons and learning opportunities of future health system managers through international and intercultural learning, and to provide a learning environment for understanding different ways of



approaching issues and problems related to health sciences management.

This is a Social Science course

**UNI451Y1 Independent Research in Health Studies TBA**

This two-semester course designation will permit students to gain academic credit for health studies pursued independently under the supervision of a University of Toronto faculty member; or to participate in an ongoing health research project under the joint supervision of the project's Principal Investigator and the Director of the Health Studies Program.

Prerequisite: UNI 200H1, 210H1

This is a Social Science course.

**UNI470H1 Health Psychology: Physical Education & Health 39L**

This course provides students with an overview of contemporary topics in health psychology: psychological theory, research and skills relevant to the promotion and maintenance of optimal health and the prevention and treatment of illness and physical injury. The first half of the course will cover theoretical frameworks for understanding health behaviour, motivation, and psycho-social factors that influence health attitudes and behaviour. In the second half, topics germane to clinical health psychology and multi-disciplinary settings will be explored. Emphasis on the role of health psychology and exercise wellness behaviour; and on professional issues and ethical practices for physical and health education students.

This is a Social Science course

**UNI471H1 Physical Activity, Health and the Media 26L, 13T**

This course draws upon communications theory, political economy, semiology and sociology to examine the ways in which meanings about physical activity are produced, distributed, and consumed through the media. Topics include: the social marketing of health, advertising and the "body politic", media advocacy, sports and fitness marketing, and the production of sport as a media event.

Prerequisite: PHE 301H1/UNI 371H1

Exclusion: PHE 402H1

This is a Social Science course

**UNI472H1 Body, Health and Culture 26L, 13T**

This course examines the body as a terrain of complex cultural politics. Drawing upon a variety of sources, especially post-modern theory, cultural anthropology, and philosophy, it will consider the ways in which the "body" has been conceptualized and the ways in which discourses on bodies have led to important political struggles, particularly in the social construction of health and sickness.

Exclusion: PHE 403H1

This is a Social Science course

**UNI473H1 Physical Activity in the Ancient and Early Modern World 26L**

The ancient Greeks and Romans were intensely interested in sport, physical education, and the maintenance of physical strength and health. The Renaissance revived this interest and transformed physical pursuits from marginal activities into structured components of the social system. Our contemporary concepts of sport, health, and physical culture were first

formulated at that time. The readings (in English translation) will be taken from original ancient and early-modern documents.

Exclusion: PHE 423H1

This is a Social Science course

**UNI474H1 Health Topics in Literature 26S**

The specific content of this course will vary from one year to another, depending on the availability of particular scholars to offer the course. Its purpose is to take advantage of the occasional availability of a prominent humanist in the health field. In a given year, the course may focus on changes in the perception and portrayal of illness or death or disability in the poetry, prose or drama of a particular country: England, France, and so on.

This is a Humanities course.

**UNI476H1 Historical Approaches to Health 26S**

The specific content of this course will vary from one year to another, depending on the availability of particular historians to offer the course. In a given year, the course may focus on the Black Death epidemic in Europe, problems of sanitation in ancient Rome, nutritional issues in pre-industrial China, and so on.

This is a Humanities or Social Science course.

**UNI480H1 Independent Research in Health Studies TBA**

This one-semester course will permit students to gain academic credit for health studies pursued independently under the supervision of a University of Toronto faculty member; or to participate in an ongoing health research project under the joint supervision of the project's Principal Investigator and the Director of the Health Studies Program

Prerequisite: UNI200H1, 210H1

This is a Social Science course.

## Peace and Conflict Studies Courses

**UNI260Y1 Introduction to Peace and Conflict Studies (formerly UNI110Y1) 78L**

A review of the full range of theories explaining the nature and causes of conflict and possibilities for its resolution; provides students with a set of theoretical tools for effective analysis of interpersonal, civil, and international conflict.

Exclusion: UNI110Y1

This is a Social Science course

**UNI360Y1 Topics in Peace and Conflict 52L**

An in-depth exploration of selected issues introduced in UNI260Y1. Topics may include: negotiation theory; ethnic and group-identity conflict; feminist perspectives on peace and war; mathematical modeling of arms races and war; decision-making theory and conflict; environmental change and conflict; and traditional perspectives on statecraft.

Prerequisite: UNI260Y1 or permission of the instructor

Recommended preparation: POL208Y1

This is a Social Science course

**JUP460H1/Y1 Contemporary Issues in Peace and Conflict 26S/52S**

A colloquium (fall term) and research seminar (spring term, JUP460Y only) on security ontology and various meanings of security. Topics to be considered include planetary, ecospherical,

# University College

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state, societal, and human security. (Offered by the Department of Political Science and University College)

Exclusion: Students are not allowed to take both H and Y courses

Prerequisite: POL208Y and UNI360Y/permission of the instructor

This is a Social Science course

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## Sexual Diversity Studies Courses

### UNI255HI History and Perspectives in Sexual Diversity 26L, 13T

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 ethnicity, class, and gender?

This is a Humanities or Social Science course

### UNI 256HI Sexualities: Social, Organizational, and Legal Contexts 26L, 13T

A social sciences approach to sexual diversity across societies, and of the increased visibility of that diversity in such settings as the family, the workplace, and the law, as well as the role that such contexts play in shaping sexual identity.

This is a social science course.

### UNI325HI Queerly Canadian 26L

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: UNI255HI/UNI256HI or UNI220YI or permission of instructor

Exclusion: UNI375HI Special Topics: Queerly Canadian

This is a Humanities course

### UNI354HI Theories of Sexuality I: The Foundations 26L

A survey of classic western theories of sexuality; each theory is examined in terms of the practices it allows and prohibits. Under consideration are not only the descriptive and/or prescriptive aspects of a particular framework but its epistemic grounds, and implications for understanding identity, body, community, and state.

Prerequisite: UNI255HI

This is a Humanities or Social Science course

### UNI355HI Theories of Sexuality II: Contemporary Perspectives 26L

An integrated survey of some ways in which sexuality has been theorised recently. How have desire and its identities been conceptualised and deployed? What are the implications for psychoanalysis, feminism, and cultural production? What interconnections are yet to be made between sexuality and the markers of gender, race, and class?

Prerequisite: UNI255HI or permission of instructor

This is a Humanities or Social Science course

### UNI365HI Sexuality and Law 26L/S

An overview of the points where sexuality and law intersect, through surveying ways of thinking about how law interprets, regulates and defines sexuality, and how communities and groups oppressed on the basis of sexuality fare under the law in Canada and elsewhere.

Prerequisite: POL315HI/UNI255HI/UNI256HI or permission of instructor

This is a Humanities course

### UNI375HI Special Topics in Sexual Diversity Studies 26L/S

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. See [www.utoronto.ca/sexualdiversity/special.html](http://www.utoronto.ca/sexualdiversity/special.html) for descriptions of current topics.

Prerequisite: UNI255HI/UNI256HI or permission of instructor

### UNI455HI Special Topics in Sexual Diversity Studies 26S

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. See [www.utoronto.ca/sexualdiversity/special.html](http://www.utoronto.ca/sexualdiversity/special.html) for descriptions of current topics.

Prerequisite: UNI 255HI/UNI256HI

Recommended preparation: POL 315HI/UNI 354HI/UNI355HI

This is a Humanities or Social Science course

### UNI475HI The New Queer Visibility 26S

This interdisciplinary course critically examines the socio-political cultural context that has produced a new queer visibility. The course assesses many of the post-Stonewall changes in the North American public sphere and the interrelationship between the new queer visibility and the North American public sphere.

Prerequisite: UNI255HI and UNI355HI or permission of the instructor

This is a Humanities or Social Science course

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## Other University College Courses

### JUM202HI Mathematics as an Interdisciplinary Pursuit (formerly JUM102HI) 26L, 13T

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. (Offered every three years)

Exclusion: JUM102HI

JUM202HI is particularly suited as a Science Distribution

Requirement course for Humanities and Social Science students.

### JUM203HI Mathematics as Recreation (formerly JUM103HI) 26L, 13T

A study of games, puzzles and problems focusing on the deeper principles they illustrate. Concentration is on problems arising out of number theory and geometry, with emphasis on the process of mathematical reasoning. Technical requirements are kept to a minimum. A foundation is provided for a continuing lay interest in mathematics. (Offered every three years)

Exclusion: JUM103HI

JUM203HI is particularly suited as a Science Distribution

Requirement course for Humanities and Social Science students.

### JUM204HI Mathematics and Poetry 39L

An interdisciplinary exploration of creativity and imagination as they arise in the study of mathematics and poetry. (Offered every three years)

Exclusion: JEM204HI

JUM204HI is particularly suited as a Science Distribution

Requirement course for Humanities and Social Science students.

**JUM205HI Mathematical Personalities 26L, 13T  
(formerly JUM105HI)**

An in-depth study of the life, times and work of several mathematicians who have been particularly influential. Examples may include Newton, Euler, Gauss, Kowalewski, Hilbert, Hardy, Ramanujan, Gödel, Erdős, Coxeter, Grothendieck. (Offered every three years)

Exclusion: JUM105HI

JUM205HI is particularly suited as a Science Distribution Requirement course for Humanities and Social Science students.

**UNI299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**UNI393YI/ University College TBA  
394HI Independent Studies**

An opportunity to pursue at the 300-level an independent course of study not otherwise available within the Faculty. A written proposal, co-signed by the instructor, must be submitted on the appropriate proposal form for approval by the Vice-Principal of University College prior to registration.

Prerequisite: Permission of University College Vice-Principal

**UNI495YI/ University College TBA  
496HI Independent Studies**

An opportunity to pursue at the 400-level an independent course of study not otherwise available within the Faculty. A written proposal, co-signed by the instructor, must be submitted on the appropriate proposal form for approval by the Vice-Principal of University College prior to registration.

Prerequisite: Permission of University College Vice-Principal

Urban Studies: see Innis College

## Faculty

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### Professors Emeriti

- A. Baines, MD, PhD (Vic One)
- D. Duffy, MA, PhD (Vic One)
- E. Kushner, PhD (Renaissance Studies)

### Professors

- K.R. Bartlett, MA, Ph D (Renaissance Studies)
- P. Corey, MA, PhD (Vic One)
- M. Danesi, MA, PhD FRSC (Semiotics)
- K. Eisenbichler, MA, Ph D (Renaissance Studies)
- N. Terpstra, MA, PhD (Renaissance Studies)
- P. Thompson, PhD (Vic One)

### Associate Professors

- E. Cazdyn, PhD (Literary Studies)
- R. Comay, PhD (Literary Studies)
- M. Legge, MDiv, PhD
- A. Motsch, MA, PhD (Literary Studies)
- M. Nyquist, MA, PhD (Literary Studies)
- J.W. Patrick, MA, PhD (Literary Studies)
- W. Robins, MA, PhD (Literary Studies and Vic One)
- S. Sedivy, PhD (Vic One)
- L. Somigli, PhD (Literary Studies)

### Assistant Professors

- S. Cook, PhD (Vic One)
- A. Komaromi, MA, PhD (Literary Studies)
- J. Selles, MA, EdD

### Senior Lecturers

- J. Levine, MA, Ph D (Literary Studies)
- A. Urbancic, MA, PhD (Vic One)

### Special Lecturers

- P. Harris, MA (Vic One)
- A. Moritz, MA, PhD (Vic One and Creative Writing)

### Visiting Professor

- D. Wright, BSc, MBA (Kenneth and Patricia Taylor Distinguished Visiting Professor in Foreign Affairs) (Vic One)

Victoria College offers *VIC One*, a first year sequence of courses, and interdisciplinary programs and courses listed below so that students have an opportunity to examine important themes and problems of our culture from a variety of points of view. Most of the courses introduce ideas and methods from various disciplines; in this way students can explore areas of interest they otherwise might overlook, and also gain insight into comparative studies.

Several of the courses have a place in the established programs of study indicated below. In addition, the courses are designed to serve the interests of those who, whatever their intended field of specialization, wish to introduce variety into their program, or who have not decided on a discipline, and wish to examine different approaches to humane studies.

### 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. Four streams with

differing emphasis are available in this foundation year program, known as Vic One. They are named in honour of four respected Canadian leaders, all Victoria College alumni. The Frye stream, named after former Victoria College professor and renowned literary critic Northrop Frye, focuses on the humanities. The Pearson stream, named after former Canadian prime minister Lester Pearson is concerned with the social sciences. The Augusta Stowe-Gullen stream, named after the first woman to graduate from a Canadian medical school, is of interest to students wishing to pursue studies in the life sciences. The Egerton Ryerson stream, named after the first Principal of the College who was a pioneer in Canadian education, is an opportunity to introduce first year students to issues in education and teaching.

The four streams feature seminars, lectures, small tutorials and informal conversation, and are enriched by guest professors, visiting artists, writers, ambassadors and other public figures.

Each Vic One stream comprises three first-year courses out of the five courses taken by most first year students. Two courses in each stream are seminar courses given by Victoria College. They have a limited enrolment of 25 students in each class. The third course is selected, in the Pearson stream, from the first-year offerings in history or political science; in the Frye stream, it is JEF 100Y: The Western Tradition; in the Stowe-Gullen stream, it is BIO 150Y: Organisms in their Environment, and in the Egerton Ryerson stream, it is PSY 100HI, Introductory Psychology.

Vic One enrolment is limited to 150 students. It requires an application that is found on the Vic One web site ([www.vicu.utoronto.ca](http://www.vicu.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 made based on extra-curricular activities, a short original essay and the student's entering grades.

### VIC First: Pathways for First Year

The Vic First experience is created by a Pathway that links together two stimulating first year courses, at least one course or section with limited enrolment, delivered by outstanding lecturers. Vic First also adds extra value in additional out-of-class activities. Each Pathway combines one of the popular large courses offered on the Vic campus with a complimentary smaller enrolment course that will offer students a sense of being in an academic cohort. The Pathways will provide an excellent foundation for a student's subsequent studies. Priority will be given to Victoria College students at the beginning of registration. Thereafter Vic First will be open to all first-year students in the Faculty of Arts and Science.

### The Literary Studies Program

(Specialist, Major and Minor) will be attractive to students who wish to read major works drawn from a variety of languages and cultural contexts. The program combines close attention to literary texts with theoretical reflection on relations between literary and non-literary works (for example, philosophy, art, film, history). Contemporary debates in literary and cultural theory will play a key role.

Students may enroll in one of two streams, Comparative Literature (Specialist and Major) or Interdisciplinary Studies (Specialist and Major). Students may also enroll in the Minor program, or in the joint Specialist with Philosophy.

Students who enrolled in one of the Literary Studies programs prior to July 2007 may, if they wish, follow the requirements in place in 2006. (VIC 309HI and VIC310HI will be considered equivalent to VIC310Y.)

## The Renaissance Studies Program

(Specialist, Major and Minor) studies one of the critical periods in European and world history. The Renaissance witnessed changes in art and literature, in social and political development, and in technology and science that were to transform our concept of the world. 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 in Western civilization.

## The Semiotics and Communication Theory Program

(Major and Minor) investigates the science of communication and sign systems, the ways people understand phenomena and organize them mentally, the ways in which they devise means for transmitting that understanding and for sharing it with others. It covers all non-verbal signalling and extends to domains whose communicative dimension is perceived only unconsciously or subliminally. Knowledge, meaning, intention and action are thus fundamental concepts in the semiotic investigation of phenomena.

## Concurrent Teacher Education Program

(Joint BA/BSc/BEd) prepares students for a career in teaching as well as encourages students to follow an Arts and Science program of study focussed on the urban environment. Program begins in 2008 with entry in second year. Students in first year should consider the Ryerson Stream of Vic One as preparation. Enrolment is limited to 30 students.

## Victoria College Programs

### Concurrent Teacher Education Program (CTEP)\*

\*CTEP will be offered beginning September 2008. Students interested in the program should consider enrolling in the Ryerson Stream of Vic One.

CTEP offers students the opportunity to complete the B.A./B.Sc degree and the B.Ed. The program is offered in partnership with O.I.S.E. Complete description of the program may be found on the OISE web site. Admission into the CTEP is by application at the end of first year when the Arts and Science subject POSTs are selected. All applicants must have a minimum GPA of 2.8 and have completed PSY 100H. Recommended preparation is the Ryerson stream of Vic One.

### Requirement of CTEP for BA/B.Sc./B.ED Students

All students admitted to the Victoria College CTEP are required to enroll in the Education and Society minor program. It is also recommended, in addition to the B.Ed. courses and associated requirements, that students select a major or minor in the general area of urban studies.

CTEP students may fulfill the remaining major or minor for the B.A./B.Ed. degree as they wish. CTEP students may not enroll in specialist programs in order to have sufficient space in their program to complete the concurrent B.ED requirements.

## Major and Minor Programs in the Urban Environment

Students are recommended to enroll in either a major or minor in any of the Faculty's programs concerning the urban environment.

### Minor Program Education and Society (CTEP)

The minor in Education and Society is open only to students registered in the Concurrent Teacher Education Program who must take the minor.

(4 full courses or their equivalent, including at least one 300+ series course)

1. PSY100H
2. An additional half-year or full year/first year course selected from ANT 100Y, SOC 100Y or GGR 124Y. Vic One Ryerson students may satisfy this requirement with either VIC 150Y or VIC 151Y.
3. VIC 260H Equity and Diversity in Education  
VIC 261H Child and Adolescent Development in Education  
JSV 262H Communication and Conflict Resolution
4. VIC 360H CTEP Internship
5. One other course related to Education and Society at the 300 level or higher selected from the offerings in Sociology, Anthropology or Geography (Arts). Courses in other departments, including those in the Department of Theory and Policy Studies at OISE require approval of the CTEP Vic Coordinator.

### Literary Studies (Arts program)

Program Coordinator TBA

Enrolment in the Literary Studies program is open to students upon completion of four courses; no minimum GPA required. The program will begin in second year. However, JEF100Y1 or VIC201Y1 are recommended introductory courses for first year students.

All students following a major or specialist program will be required to study a second language, and should consider beginning such course work in their first year.

### Specialist program in the Comparative Literature stream:

(13-14 full courses or their equivalent)

1. Complete major in the Comparative Literature stream (see requirements below)
2. Complete a major in a literature other than English
3. Normally VIC490Y1. Please consult the program coordinator for further instruction.

### Major program in the Comparative Literature stream:

(7 full courses or their equivalent)

1. VIC 201Y1, 210Y1, 311HI and one of 309HI/310HI/310Y1
2. 1.0 FCE from VIC 300HI/Y1, VIC 301HI/Y1, VIC309HI/VIC310HI/310Y1, VIC 401HI/Y1, VIC 410HI/Y1, VIC 411HI/Y1, JNV 300HI. In exceptional circumstances, and with the permission of the program coordinator, students may choose another course.
3. 3.0 FCE's in literature in the original language (not English). 1.0 FCE may be at the 200 level. At least 2.0 FCE's must be at the 300+ level.

## **Specialist program in the Interdisciplinary stream:**

(12 full courses or their equivalent, including at least 1.0 400 level course)

1. VIC 201YI, 210YI, 311HI and one of 309HI/310HI/310YI
2. 2.0 FCE's from VIC 300HI/YI, 301HI/YI, 309HI/310HI/310YI, 401HI/YI, 410YI, 411HI/YI, JNV 300HI
3. 4.0 FCE's in another discipline chosen in consultation with the program coordinator.
4. 2.0 FCE's in a language other than English, at least 1.0 at the 300+ level
5. Normally VIC 490YI. Please consult the program coordinator for further instruction.

## **Major program in the Interdisciplinary stream:**

(7 full courses or their equivalent)

1. VIC 201YI, 210YI, 311HI and one of 309HI/310HI/310YI
2. 1.0 FCE from VIC 300HI/YI, 301HI/YI, 309HI/310HI/310YI, 401HI/YI, 410YI, 411HI/YI, JNV 300HI
3. 1.0 FCE in a language other than English at the 200+ level
4. 2.0 FCE's in another discipline chosen in consultation with the program coordinator

## **Minor program:**

(4 full courses or their equivalent, including at least one 300+ level course)

Four courses from: VIC 201YI, 210YI, 300HI/YI, 301HI/YI, 309HI/310HI/YI, 311HI, 401HI/YI, 410HI/YI, 411HI/YI, JNV 300HI.

## **Literary Studies and Philosophy (Arts program)**

Consult Professor J.W. Patrick, Victoria College, or Professor R. Comay, Department of Philosophy.

## **Specialist program:**

(14 full courses or their equivalent, including at least one 400 series course)

1. Major in the Interdisciplinary stream
2. Major in Philosophy
3. Normally VIC 490YI. Please consult the program coordinator for further instruction.

## **Renaissance Studies (Arts program)**

Consult Professor N. Terpstra, Victoria College.

Enrolment in the Renaissance Studies program is open to students upon completion of four courses; no minimum GPA required.

## **Specialist Program**

(10 full courses or their equivalent, including at least three 300+ series courses and one 400-level course):

1. VIC 240YI
2. Six additional full course equivalents from the Major program.
3. One Research Course (a 299YI, 399YI, or Independent Studies course on a topic in Renaissance studies approved by Program Coordinator)
4. Two full course equivalents in a language (only one may be at the introductory level).

## **Major program:**

(6 full courses or their equivalent, including at least two 300+ series courses)

1. VIC 440YI
2. Equivalent of two full credits from: VIC 240YI, 341HI, 343YI, 344HI, 345HI, 346HI, 347YI, 348YI, 349HI/YI, 449HI/YI.
3. One full course equivalent in Literature from: ENG 220YI, 243Y, 301HI, 302YI, 303HI, 304YI, 330HI, 332YI, 333HI, 440YI, 455HI; FRE 320YI, 359HI, 419HI, 420HI; ITA 249HI, 312HI, 325HI, 332HI, 356YI, 370HI/YI, 409HI, 426HI, 470HI; PRT 351HI; SPA 352HI, 452HI, 454HI.
4. One full course equivalent in History or Economics from: ECO 301YI; HIS 243HI, 303YI, 309HI, 357YI, 362HI, 403HI, 412YI, 438HI, 441HI, 443HI/YI.
5. One full course equivalent in Art or Music from: FAH 274HI, 277HI, 306HI, 307HI/YI, 308HI/YI, 324HI/Y, 325YI, 326HI/YI, 332YI, 333HI, 335HI, 339HI, 341HI, 342HI, 352YI, 355HI, 428HI, 432HI, 438HI, 440HI, 439HI, 442HI, 450HI ; MUS 208HI.

## **Minor program:**

(4 full courses or their equivalent, including at least one 300+ series course)

1. Equivalent of two full courses from: VIC 240YI, 341HI, 343YI, 344HI, 345HI, 346HI, 347YI, 348YI, 349HI/YI, 440YI, 449HI/YI.
2. Two full courses from any of those listed above

## **Semiotics and Communication Theory (Arts program)**

Program Director, Principal D. Cook, Victoria College.

Program Coordinator, Professor M. Danesi, Victoria College.

Note: Enrolment in the Semiotics program is limited to students with a CGPA of 2.8 in at least four full courses or their equivalent. Achievement of this minimum CGPA does not guarantee enrolment in the program.

## **Major program:**

(7 full courses or their equivalent, including at least two 300+series courses)

1. One course from: ANT 100YI, LIN 100YI, PHL 100YI, PHL 102YI, SOC 101Y, RLG 101Y.
2. Three full course equivalents from: VIC 220YI, 223YI, 320YI, 323YI.
3. Three full course equivalents from at least two different disciplines from Groups A-E.

## **Minor program:**

(4 full courses or their equivalent, including at least one 300+series course)

1. One course from: ANT 100YI, LIN 100YI, PHL 100YI, PHL 102YI, SOC 101Y, RLG 101Y.
2. Two full course equivalents from: VIC 220YI, 223YI, 320YI and 323YI.
3. One full course equivalent from from Groups A-E.

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Note: JFV 323HI is a recommended Group E courses.

## **Group A: Anthropology**

ANT 204YI, 253HI, 323HI/Y, 328HI, 329YI, 334YI, 351HI, 356HI, 366YI, 425HI, 426HI, 427HI, 450HI, 461HI; JAL 253HI, 328HI, 355HI, 356HI

## **Group B: Linguistics**

LIN 200HI, 229HI, 231HI, 232HI, 315HI, 341HI, 372HI,

415HI, 417HI, 480HI; JAL 254HI, 328HI; JLP 306HI, 315HI, 374HI

## Group C: Philosophy

PHL 200HI, 201HI, 220HI, 235HI, 236YI, 240HI, 243HI, 244HI, 245HI, 250HI, 255HI, 267HI, 285HI, 288HI, 304HI, 305HI, 306HI, 307HI, 310HI, 311HI, 312HI, 315HI, 316HI, 318HI, 320HI, 321HI, 322HI, 325HI, 326HI, 340HI, 342HI, 346HI, 351HI, 385HI; JUP250YI

## Group D: Psychology

PSY 210HI, 220HI, 260HI, 270HI, 280HI, 300HI, 301HI, 311HI, 312HI, 316HI, 320HI, 323HI, 325HI, 334HI, 362HI, 370HI, 371HI, 372HI; JLP 315HI

## Group E: Other Related Area Courses

CLA 202HI, 203HI, 204HI, 219HI, 305HI; DRM 200YI, 230YI, 260HI, 262HI, 264HI, 266HI; ENG 290YI, 366YI; FAH 212HI, 214HI, 287HI, 288HI, 367HI, 378HI, 385HI; VIS 201HI, 202HI, 203HI, 204HI, 205HI, 206HI, 207HI, 208HI, 209HI, 212HI, 213HI, 307HI, 312HI, 313HI, 315HI, 316HI; HIS 316HI, 367HI, 374HI, 375HI, 419HI; HPS 201HI, 202HI, 250HI, 323HI, 324HI; INI 212YI, 214YI, 225YI, 301YI, 322HI, 323YI, 327YI, 329YI, 330YI, 423HI, 426HI, 428HI; JFV 323HI; MUS 200HI, 211HI, 303HI; NEW 240YI, 261YI, 271YI, 302YI, 303HI, 360YI, 368HI, 371HI, 372HI; POL 213Y; RLG 200YI, 210YI, 211YI, 230YI, 232HI, 233HI, 237YI, 301HI, 302HI, 304HI, 315HI, 380HI; SMC 210YI, 402HI; SOC 365YI, 367HI, 381YI, 388HI; UNI 221HI, 250YI, 255HI, 355HI; JUM 200YI; VIC 210YI, 211YI, 300YI, 310YI, 322HI, 343YI, 345YI, 410YI, 411YI.

## Victoria College Courses

Vic One, Vic First, Literary Studies; Renaissance Studies; Semiotics; Other.

See page 33 for Key to Course Descriptions.

## Vic One

Consult Vic One Liaison Officer, Michelle Mitrovich, Victoria College [m.mitrovich@utoronto.ca](mailto:m.mitrovich@utoronto.ca)

Frye/Pearson academic coordinator: Dr Anne Urbancic, Victoria College

Stowe-Gullen academic coordinator: Dr Andrew Baines, Victoria College

Egerton Ryerson academic coordinator: Dr. Sheila Cook, Victoria College

The following courses are available to students admitted to Vic One:

## Egerton Ryerson Stream

### VIC 150Y1 School and Society (formerly INX199Y1, L0031)

This course will be about the history of school and will examine the philosophical questions about the nature and purpose of learning, and also the economic or "human capital" value of education with respect to both the student and the state.

Co-requisites: VIC 151Y1 and PSY 100HIY

Exclusion: INX199Y1, section L0031

This is a Social Science course.

### VIC 151Y1 Theories and Practices of Teaching

The course studies the history and philosophy of teaching with a view to having students develop their personal understanding of teaching. Students will be involved in a practicum.

Co-requisites: VIC 150Y1Y and PSY 100Y

This is a Humanities course.

## Frye Stream

### VIC 162HI Cultural Forms and Their Meanings: Monuments and Memories

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 artifacts. We will emphasize evolving perceptions of time and space.

Co-requisites: VIC 163HI, VIC 164HI, VIC 165HI & JEF 100YI

This is a Humanities course

### VIC 163HI Cultural Forms and Their Meanings: People and Ideas

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 artifacts. We will emphasize how contemporary thought has affected the practice of everyday life.

Co-requisites: VIC 162HI, VIC 164HI, VIC 165HI & JEF 100YI

This is a Humanities course

### VIC 164HI Ideas and Their Consequences: Beauty and the End of Art

A study of the ideas and concerns of creative thinkers and their impact upon cultures. The course will include scientific thinkers as well as religious figures from the major traditions. Attention will be given to modes of reasoning, cultural definition and expression. We will emphasize philosophical and artistic concepts.

Co-requisites: VIC 165HI, VIC 162HI, VIC 163HI & JEF100YI

This is a Humanities course

### VIC 165HI Ideas and Their Consequences: Isolation and Communion in Modern Culture

A study of the ideas and concerns of creative thinkers and their impact upon cultures. The course will include scientific thinkers as well as religious figures from the major traditions. Attention will be given to modes of reasoning, cultural definition and expression. We will emphasize literary and philosophical concepts in the rise of modernism.

Co-requisites: VIC 164HI, VIC 162HI, VIC 163HI & JEF100YI

This is a Humanities course

## Stowe-Gullen Stream

### VIC 170Y1 Introduction to the Rhetoric of Science: Probability and Persuasion

How rhetoric and statistical analysis are used to communicate scientific observations and theories will be examined in seminars. Problems including the nature of evidence, risk assessment, random error and systematic error (bias) will be discussed using examples drawn from the physical, life and social sciences.

Co-requisites: BIO 150YI & VIC 171Y

This is a Humanities or Social Science course.

**VIC171YI      Methodology, Theory and Ethics in the Life Sciences**

An examination of scientific theories and their logic, the role in life sciences of models and mathematics, and issues in experimental design and data analysis. Particular emphasis will be placed on evolutionary theory, genomics, contemporary scientific controversies and ethical issues.

Co-requisites: BIO 150Y1 & VIC170Y

This is a Humanities course.

**Pearson Stream****VIC181HI      Events and the Public Sphere: World Affairs**

A seminar course that 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. We will emphasize recent political developments in world affairs.

Co-requisites: VIC183HI, VIC184HI, VIC185HI, and a First year course in History or Political Science

This is a Social Science course

**VIC183HI      Individuals and the Public Sphere: Shaping Memory**

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 the context of studying the social, philosophical, cultural and scientific context of the period. Topics could include the role of law and government, civil liberties, rights and responsibilities, the role of protest. We will examine individuals who have shaped the processes by which modern memory is formed.

Co-requisites: VIC181HI, VIC184HI, VIC185HI & a first year course in History or Political Science

This is a Social Science course.

**VIC184HI      Individuals and the Public Sphere: Cultural Memory**

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 the context of studying the social, philosophical, cultural and scientific context of the period. Topics could include the role of law and government, civil liberties, rights and responsibilities, the role of protest. We will examine our evolving role in developing cultural memory.

Co-requisites: VIC181HI, VIC183HI, VIC185HI & a first year course in History or Political Science

This is a Social Science course

**VIC 185HI      Events in the Public Sphere: Social Justice**

The course uses events or an event to discuss the nature of society including major revolutions, economic crises, and the impact of significant artistic, cultural and technological developments. Emphasis on social justice.

Co-requisites: VIC 181HI, VIC 183HI, VIC 184HI and a First year course in History or Political Science.

This is a Social Science course.

**Vic First: Pathways for First Year****VIC101HI      Conflict Theory and Practice      26L, 13P (formerly VIC101YI)**

The course is a general orientation toward conflict, 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.

Exclusion: VIC101YI

Co-requisite: ECO 100Y

This is a Social Science course.

**VIC102YI      Ethics and the Public: Case Studies      52L, 26P (formerly VIC182HI)**

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. We will emphasize case studies of recent social issues.

Co-requisite: POL 103Y/SOC 101Y

Exclusion: VIC182HI

This is either a Humanities or a Social Science course.

**VIC 103YI      Politics and Fine Thoughts      52L, 26P**

This course examines how political ideas are formed and developed through literature, art, plays, essays and philosophical works in the twentieth century.

Co-requisite: ENG 110Y/ENG 140Y

This is either a Humanities or a Social Science course.

**VIC 104HI      Common Vices and Neglected Virtues: Intro to Ethics of Character      26L, 26P**

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?

Co-requisite: PHL 100Y/RLG 100Y

This is a Humanities course.

**VIC 105HI      Image, Music, Text      26L, 26P**

The course focuses on the various aspects of a culture as exhibited through the media of images, music and texts.

Co-requisite: PHL 100Y/MUS 110H

This is a Humanities course.

**VIC106HI      Topics in the History of Mind, Brain and Behavioural Science      26L**

This course explores central developments and ongoing controversies in the scientific study of the human mind, brain and behavior. 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.

Co-requisite: PSY100H

This is either a Humanities or Social Science course.



**VIC107HI Topics in the History of Evolution, Heredity, and Behaviour 26L**

A course examining the history of research and knowledge on evolution, heredity and behaviour. Topics include Darwinian evolution, the rise and development of the Mendelian theory of the gene and of molecular biology, views about instincts, and sociobiology.

Co-requisite: BIO150Y

This is either a Humanities or Social Science course.

**VIC108HI/YI Belonging, Imagination and the Uses of History in the Shaping of National Identity 26L/52L**

This course will examine a number of questions related to the origins of national identities and the sustainability of nation-states. Topics covered will include: language, ethnicity, religion, politics, war, symbols, the arts, sport and public spectacle, and cuisine.

Co-requisite: HIS 106Y/SOC 101Y

This is either a Humanities or Social Science course.

**VIC111YI Introduction to Material Culture 52L, 26P**

Objects and artifacts provide an interesting way to study culture. The presentation of objects in museums and galleries transmits cultural meaning to society. This course introduces students to material culture using the ROM, the Gardiner Museum and other established resources.

Co-requisite: ANT 100Y/FAH 101H

This is either a Humanities or a Social Science course.

**VIC112YI Puzzles, Discovery and the Human Imagination 52L, 26P**

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 artifacts, 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.

Co-requisite: One of ANT 100Y/BIO 150Y/HPS 100H.

This is either a Humanities or a Social Science course.

**VIC114YI Renaissance in Popular Culture 52L, 26P**

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.

Co-requisite: HIS 109Y/INI 115Y

This is a Humanities course.

**VIC115YI Imagined Power: Literature and Film**

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.

Co-requisite: A 100 series Political Science course.

This is either a Humanities or Social Science course.

**VIC116YI Narrative Medical Ethics 26L, 1P**

A philosophical consideration through literature, articles and film as well as medical case studies to consider ethical elements of medical decision-making.

Co-requisite: BIO150YI/PSY100HI

**Literary Studies Courses**

For Distribution Requirement purposes (see page 27), all VIC Literary Studies courses are classified as HUMANITIES courses.

**VIC201YI Ancient and Medieval Literary Modes: Conventions and Continuities 52L, 26T**

Selected forms (such as epic, romance, satire, tragedy, lyric, utopia, autobiography, confession), with special attention to their roots in the Ancient and Medieval period. Texts may include selections from Aboriginal, Asian, Hebrew and Babylonian creation myths, epic narratives; history and law; drama; lyric poetry, songs and spells; philosophy and theology.

Exclusion: VIC110YI

**VIC210YI Literary Studies II: Empire, Literature and Modernity 52L, 26T**

The rise of modern European literatures in various contexts - colonialism, humanism, literacy, nation-states, democracy, ideology, individualism - that prompted development of new literary genres, figures, personae and filiations.

**VIC300HI/YI Special Topics I: Literary Studies 26S/52S**

Interdisciplinary seminar on an author or extensive work (eg. Proust's, *Remembrance of Things Past*, Joyce's, *Finnegans Wake*) or on a genre. Emphasis on literature and its relation to fine arts, philosophy, politics, history

Prerequisite: A course in Literary Studies or instructor's approval

**VIC301HI/YI Special Topics II: Literary Studies 26s**

Interdisciplinary seminar on a historical period (eg. Late Antiquity, Romanticism, the Harlem Renaissance) or critical event. Emphasis on literature and its relation to fine arts, philosophy, politics, history.

Prerequisite: A course in Literary Studies or instructor's approval

**VIC309HI Literary Studies III: The Modernist Avant Garde (formerly VIC310YI) 26L, 13T**

Detailed study of a major modernist text or author(s), some of the surrounding theoretical debates, and other forms of cultural expression such as cinema, photography, collage, mass advertising, music, etc, that may be relevant.

Exclusion: VIC310YI

**VIC310HI Literary Studies III: After Modernism (formerly VIC310YI) 26L, 13T**

Texts from the second half of the 20<sup>th</sup> century and after; to foreground the reaction to modernism, and to consider the challenges to memory and representation that accompany historical crisis. Questions of language, representation, aesthetics and politics, interpretation.

Exclusion: VIC310YI

**VIC311HI Translation (formerly VIC311YI) 26L**

An introduction to the main questions raised by translation studies, and an examination of the relationships it has established with other disciplines such as linguistics, film studies, literary theory, philosophy, anthropology, political-economy, psychoanalysis, the hard sciences.

Exclusion: VIC311YI

**VIC401HI/YI Seminar in Comparative Literature 26S/52S**

This course offers senior students in Literary Studies the opportunity to take part in a graduate seminar in Comparative Literature. Topics change annually.

**VIC410HI/YI Seminar in Comparative Studies 26S/52S**

For senior students enrolled in the Literary Studies program, although other students are welcome. Intensive study of general issues of poetics and critical theory, including representative literary and philosophical texts.

Prerequisite: At least one course in Literary Studies

**VIC411HI/YI Postmodernist Approaches to Film and Literature 26S/52S**

Study of current filmic and literary theories, with emphasis on the rhetoric of film: the concept of the trope, metaphor, metonymy, allegory, irony, repetition, and specific thematic tropes like the eye, the face, the death mask, the mirror, the dream, etc.

Prerequisite: A course in Literary Studies or Cinema Studies, or permission of the instructor.

**JNV300HI Gender, History and Literature 26S**

The study of a selected group of creative writers from at least two national literatures whose texts raise issues regarding gender as either an historically or culturally variable construct. Texts will be chosen on the basis of a shared historical era, a literary genre, experience, institutional categorization, or project.

Prerequisite: One course in Literary Studies or one course in Women's Studies and Gender Studies

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## Renaissance Studies Courses

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all VIC Renaissance Studies courses are classified as HUMANITIES courses.

**VIC240YI The Civilization of Renaissance Europe 52L**

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.

**VIC341HI The Self and Society: Women, Men and Children 26S**

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.

**VIC342HI Women and Writing in the Renaissance 26S**

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.

**VIC343YI Sex and Gender (formerly VIC343HI) 52S**

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: VIC343HI

**VIC344HI Renaissance Narrative (formerly VIC242HI) 26S**

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: VIC242HI

**VIC345HI Media and Communications in the Early Modern Era 26S**

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.

**VIC 346HI Orpheus in the Italian Renaissance 26S**

A study of Orpheus as portrayed in art, music, poetry, and philosophy of the Italian Renaissance.

**VIC 347YI Studies in Renaissance Performance 52L**

Studies in the development of new musical and/or dramatic forms in the Renaissance. The course will combine seminars and lectures with a series of musical and/or dramatic performances taking place in Toronto over the course of an academic year.

Recommended preparation: VIC 240YI, or another course in Renaissance Studies.

**VIC 348YI The Renaissance in the Cities 52L**

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.

Recommended preparation: VIC 240YI, or another course in Renaissance Studies.

**VIC 349HI/YI Special Topics in the Renaissance 26L, 13P/52L, 26P**

Studies in an aspect of the Renaissance based around lectures, seminars, and readings. See annual course listing for the year's theme.

Recommended preparation: VIC 240YI, or another course in Renaissance Studies.

**VIC440YI Florence and the Renaissance 52L**

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: VIC 240YI or permission of instructor

## **VIC 449HI/YI Advanced Seminar 26L, 13P/52L, 26P in the Renaissance**

An in-depth study in an aspect of the Renaissance based around lectures, seminars, and readings. Content in any given year depends on instructor. See annual course listing for the year's theme. Recommended preparation: VIC 240YI, or another course in Renaissance Studies.

### **Semiotics Courses**

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all VIC Semiotics courses are classified as SOCIAL SCIENCE courses.

#### **VIC220YI Post-Structuralism/ Post-Modernism 52L, 26T**

Studies the international culture emerging in media and literature and examines recent communication theory as it applies to literary, social and cultural issues.

Prerequisite: One course from: ANT 100YI, LIN 100YI, PHL 100YI, PHL 102YI, SOC 101Y, RLG 101Y.

#### **VIC 223YI Signs, Meanings, and Culture 52L, 26P**

This course will introduce the main elements of semiotic theory, applying it to the study of human culture, from language, myth, and art to popular forms of culture such as pop music and cinema. It will deal with primary texts in the development of semiotics, and cover a broad range of cultural applications of semiotic theory.

Prerequisite: One course from: ANT100YI, LIN 100YI, PHL 100YI, PHL 102Y, SOC100YI, RLG 101Y.

Exclusion: Vic 120YI

#### **VIC320YI Semiotics of Visual Art 52L, 26T**

Theories and models of applied semiotics: analysis of sign systems as articulated in various forms of artistic and cultural production.

Prerequisite: VIC 120YI/MIC223YI, VIC 220YI

#### **VIC 322HI Topics in Semiotics 26S**

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: VIC 120YI/MIC 223YI, VIC 220YI.

#### **JFV323HI Semiotics and Literature 26S**

The study of readings from major French literary semioticians will be combined with the practical application of theory to the analysis of selected literary texts. (Given by the Department of French and Victoria College)

Prerequisite: At least 5 course credits in any subject.

Exclusion(s): FRE 444HI/445HI

Recommended Preparation: FRE240YI/MIC 120YI/MIC 223YI

This is a humanities or social science course.

#### **VIC 323YI Sign, Culture and History 52L, 26T (formerly VIC420YI)**

Theories of signification studied with a focus on major works in the semiotics of modern and contemporary culture.

Prerequisite: ANT 323YI, VIC 120YI/MIC 223YI, VIC 220YI/221YI/MIC 320YI.

Exclusion: VIC420YI

### **Concurrent Teacher Education Program (CTEP) Courses**

See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), VIC CTEP courses are classified in various ways; see individual course descriptions for classification.

#### **VIC260HI Child and Adolescent Development 26L in Education**

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 a 20-hour field experience located in a school and entails observation of development across the various age groups. This may be satisfied by participation in Vic Reach or in another organization with the approval of the CTEP Vic Coordinator.

Exclusion: SMC271HI

This is a Science or Social Science course.

#### **VIC261HI Equity and Diversity in Education 26L**

This course focusses 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. This course's field experience entails observation of and participation in equity and diversity efforts in a culturally-rooted school and/or community organization.

Exclusion: SMC272HI

This is a Social Science course.

#### **JSV262HI Communication and Conflict 26L Resolution**

The purpose of this course is to provide knowledge and skill acquisition in the areas of interpersonal conflict resolution and communication.

This is a Social Science course.

#### **VIC360HI CTEP Internship TBA**

Students are required to complete an internship in an educational or community source environment. This may be satisfied by participation in Vic Reach or in another organization with the approval of the CTEP Vic Coordinator. Written assessment of the internship will be required.

This is a Social Science course.

### **Other Victoria College Courses**

#### **VIC299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

#### **VIC350YI Creative Writing: A 52S Multicultural Approach**

Practice and instruction in writing poetry and fiction, paired with study of literature and theory introducing the multicultural richness of contemporary English writing. Approximately three-quarters of class periods are workshops, one-quarter lecture

# Victoria College

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discussions. Work by many writers from contemporary and traditional literatures are read in English translation.

Prerequisite: four credits

This is a Humanities course

**VIC 351HI      Learning Communities and      26S**  
**Higher Education in Canada**

This course examines the evolution of higher education in Canada. Using Victoria University and Victoria's affiliates as a case study, the course explores the intersection of gender, race, class and religion. Comparisons are made with other denominational and secular institutions in the context of late nineteenth and early twentieth century education. International contexts of education through student service and missions are discussed.

**VIC390YI/      Victoria College      TBA**  
**391HI            Independent Studies**

**VIC490YI/      Victoria College      TBA**  
**491HI            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 made through the Program Director for approval by Victoria College Council's Academic Advisory Committee by April 30 for a Fall course or by November 30 for a Spring course. Students should have a minimum CGPA of 3.

Prerequisite: Permission of College Program Director

**Visual Studies: see Art**

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# Women and Gender Studies

## Faculty

### Professors

E.K. Armatage, BA, MA, PhD  
J. Alexander, BSW, MA, PhD  
S. Mojab, BA, MEd, PhD  
K.P. Morgan, BA, MA, MEd, PhD

### Associate Professors

B. McElhinny, BA, PhD  
M. Murphy, BA, PhD  
M. Nyquist, BA, MA, PhD  
K. Rittich, Mus Bac, LL.M, SJD  
A. Trotz, BA, MPhil, PhD

### Assistant Professors

A. Tambe, BA, MA, PhD  
J. Taylor, BA, MA, PhD

### Senior Lecturers

J. Larkin, BA, MEd, PhD

Women and Gender Studies provides an interdisciplinary and culturally inclusive approach to gender that critiques, interrogates and expands the parameters of traditional disciplines.

Students in the Undergraduate Program in Women and Gender Studies (UWGS) have access to a wide range of courses in a rapidly developing, intellectually challenging field. The program offers integrated, interdisciplinary courses that reflect the cutting-edge research of our core and cross-listed faculty as well as the most current national and international Women and Gender Studies scholarship.

Students are also offered a wide range of support services through annual events such as the career workshop, the one-day student workshop, the International Women's Day celebration, and community and research seminars which are designed for students who will be working in fields related to Women and Gender Studies.

The Undergraduate Program in Women and Gender Studies seeks to inform and transform traditional forms of knowledge and provides a physical and intellectual space to conduct anti-racist feminist scholarship.

Undergraduate Coordinator: Dr. J. Larkin, New College, Room 3034 (416-978-8282).

Undergraduate Administrator: Marian Reed, New College, Room 2036 (416-978-3668).

Enquiries: (416-978-3668)

Email: grad.womenstudies@utoronto.ca

Web site: [www.utoronto.ca/wgsi](http://www.utoronto.ca/wgsi)

## Women and Gender Studies Programs

### Women and Gender Studies (Arts Program)

#### Specialist program:

(10 full courses or their equivalent, including at least five full 300+ series courses and at least one course at the 400-level)

1. WGS160Y1
2. WGS262Y1
3. WGS460Y1 and one additional full-course equivalent at the 400+ level
4. Four additional full-course equivalents from the core group below
5. Two additional full-course equivalents from Group A or B

#### Major program:

(7 full courses or their equivalent, including at least three full 300+ series courses)

1. WGS160Y1
2. WGS262Y1
3. Three additional full-course equivalents from the core group below
4. Two additional full-course equivalents from Group A or B

#### Minor program:

(4 full courses or their equivalent, including at least one full 300+ series course)

1. WGS160Y1 and/or WGS261Y1
2. Two (with both WGS160Y1 and WGS261Y1) or three (with only one of WGS160Y1 or WGS261Y1) additional full-course equivalents from the core group below or from Group A

#### Core Group:

WGS160Y1, WGS261Y1, WGS262Y1, WGS271Y1, WGS330HI-339HI, WGS362HI, WGS363HI, WGS365HI, WGS366HI, WGS367HI, WGS368HI, WGS369Y1, WGS372HI, WGS373HI, WGS374HI, WGS375HI, WGS380HI, JNV300HI, WGS425Y1, WGS434HI, WGS435HI, WGS440HI, WGS445HI, WGS451HI, WGS460Y1, WGS461Y1, WGS462HI, WGS463HI, WGS465HI, WGS470Y1

#### Group A: (Women and gender relations)

ANT343Y1, ANT460HI; CLA219HI, CLA220HI; EAS303HI, EAS452HI, EAS 453HI; ENG233Y1, ENG307HI, ENG355HI, FAH425HI, FCS497HI; FRE304HI, FRE404HI; GER421HI; GGR327HI; HIS202HI, HIS245Y1, HIS306HI, HIS354Y1, HIS363HI, HIS366Y1, HIS383HI, HIS418HI, HIS431HI, HIS446Y1, HIS448HI, HIS481HI, HIS483HI; ITA455HI; JAL355HI; JHP440Y1; JPP343Y1; NEW240Y1, NEW325HI; NMC284HI, NMC484HI; PHL243HI, PHL267HI; POL315HI, POL344HI, POL432Y1, POL351Y1, POL450HI, POL480HI; PSY323HI; RLG 236HI, RLG237HI, RLG313HI, RLG314HI, RLG315HI; SLA 248HI, SLA453HI; SOC365Y1, SOC366HI, SOC367HI, SOC383HI; SPA382HI; VIC341HI, VIC343Y1, VIS209HI

#### Group B: (General interest)

ANT329Y1, ANT342HI, ANT427HI; EAS462HI, ENG273Y1, ENG290Y1; FCS395HI; GGR362HI, GGR363HI; HIS314Y1, 459HI; INI 327Y1; ITA493HI; NEW302Y1, NEW424Y1; NMC276Y1; PHE 403HI; PHL281Y1, PHL384HI; PRT351HI; SOC207Y1, SOC214Y1, SOC215HI, SOC220Y1, SOC375Y1; SPA380HI; TRN311HI, TRN320Y1; UNI255HI, UNI354HI, UNI355HI, UNI371HI; VIC210Y1; VIS310HI

# Women and Gender Studies

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## Women and Gender Studies Courses

For Distribution Requirement purposes (see page 27) all WGS courses are classified as Humanities courses except WGS261YI and 425YI, which are Social Science courses.

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### 100-Series Courses

During the first round of enrolment, WGS160YI is subject to certain enrolment restrictions. Please refer to the 2006-2007 Registration Handbook & Timetable.

#### **WGS160YI Introduction to Women and Gender Studies 52L, 26T (formerly NEW260YI)**

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.

Exclusion: NEW260YI/WGS260YI

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### 200-Series Courses

During the course enrolment period, WGS262YI is subject to certain enrolment restrictions. Please refer to the 2007-2008 Registration Handbook & Timetable.

#### **WGS261YI Scientific Constructions of Sex and Gender 52L, 26T**

Critically examines how the scientific construction of sex and gender in the context of race, class and nation have both reinforced and challenged racial hierarchies, colonialism and the formation of academic disciplines such as psychology, anthropology and biology.

This is a Social Science course

#### **WGS262YI Texts, Theories, Histories 52L, 26T**

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.

Prerequisite: NEW160YI/WGS160YI

#### **WGS271YI Gender, Race and Class in Contemporary Popular Culture 26L (formerly NEW371HI)**

A critical examination of institutions, representations and practices associated with contemporary popular culture, mass-produced, local and alternative.

Exclusion: NEW371HI

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### 300-Series Courses

During the first round of enrolment, 300-Series Courses are subject to certain enrolment restrictions. Please refer to the 2006-2007 Registration Handbook & Timetable.

#### **Note:**

Courses numbered WGS330HI - 339HI are reserved for Special Topics in Women and Gender Studies offered each year by visiting scholars. Topics will change according to the interests of the instructor.

#### **WGS330HI/ Special Topic in Women and Gender Studies 26L 334HI/ 335HI**

An upper level seminar. Subjects of study vary from year to year. Recommended preparation: NEW160YI/WGS160YI/NEW261YI/WGS261YI

#### **WGS336HI Selected Topics in Cultural Studies 26L**

An upper level course. Topics vary from year to year. Prerequisite: NEW160YI/WGS160YI/NEW261YI/WGS261YI

#### **WGS362HI Selected Topics in Gender and History 26S**

An upper level seminar. Subjects of study vary from year to year. Prerequisite: NEW160YI/WGS160YI/NEW261YI/WGS261YI

#### **WGS363HI Selected Topics in Gender and Theory 26S**

An upper level seminar. Subjects of study vary from year to year. Prerequisite: NEW160YI/WGS160YI/NEW261YI/WGS261YI

#### **WGS365HI Gender Issues in the Law 26L**

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.

Recommended preparation: NEW160YI/WGS160YI/NEW261YI/WGS261YI

#### **WGS366HI Gender and Disability 26L**

A critical interdisciplinary investigation of how gender impacts on central topics in disability studies: ableism as a political ideology; the normalized body and cultural representations; sexuality, violence and nurturance relations; the cognitive and social roles of medicine; transnational perspectives on disability, disability rights and issues of social justice.

Prerequisite: NEW160YI/WGS160YI/NEW261YI/WGS261YI/NEW271YI/WGS271YI/NEW367HI/WGS367HI

Recommended preparation: WGS240YI/WGS372HI/WGS374HI/PHL384HI/POL315HI/POL344YI/ SOC373HI/SOC374HI/UNI 255HI/355HI

#### **WGS367HI The Politics of Gender and Health 26L, 13T**

Explores critical and transnational debates on biomedical and indigenous health traditions. Topics explored may include the politics of social suffering and trauma, spirit possession, disabilities, environmental health, organ donation, homelessness and reproduction.

Recommended preparation: NEW160YI/WGS160YI/NEW261YI/WGS261YI

#### **WGS368HI Gender and Cultural Difference: Transnational Perspectives (formerly NEW368YI) 26L**

Explores the ways in which gendered constructions of cultural identity and difference are implicated in local and transnational political projects, including feminism. Challenges colonialist stereotypes of women as exotic or "victims of culture".

Prerequisite: NEW160YI/WGS160YI/NEW261YI/WGS261YI/permission of the instructor

Exclusion: NEW368YI

#### **WGS369HI Studies in Post-Colonialism (formerly NEW369HI) 26L**

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,

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# Women and Gender Studies

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liberatory and neoconservative discourses as inscribed in literary texts, historical documents, cultural artifacts and mass media.

Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1/  
permission of the instructor

Exclusion: NEW369HI

**WGS372HI Women and Psychology/ Psychoanalysis 26L**

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.

Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1/  
permission of the instructor

**WGS373HI Gender and Violence 26L**

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.

Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1/  
permission of the instructor

**WGS374HI Feminist Studies in Sexuality 26L**

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.

Prerequisite: NEW160Y1/WGS160Y1

**WGS375HI Colonialism, Sexuality, Spirituality and the Law 26L**

This course examines the challenge indigenous knowledges posed to colonialism by analyzing Spanish and British legal codes. Focusing on the links between sexuality and spirituality, we explore how gender shaped the social dynamics of conquest and resistance and draw out the implications for contemporary colonialisms.

Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1

**WGS380HI Aboriginal, Black and Immigrant Women in the Land of Dollars 26L**

Examines the gendered effects of white settler colonization on/in 21<sup>st</sup> Century Canada and traces the formation of multiple settlements by examining black and immigrant populations. The course poses a challenge to contemporary formulations of diaspora and multiculturalism. It examines solidarity movements within and across these three communities.

Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1

**JNV 300HI Gender, History and Literature 26L**

The study of a selected group of creative writers from at least two national literatures whose texts raise issues regarding gender as either an historically or culturally variable construct. Texts will be chosen on the basis of a shared historical era, a literary genre, experience, institutional categorization, or project.

Prerequisite: One course in Literary Studies or one course in Women and Gender Studies

## 400-Series Courses

Students wishing to enrol in 400-Series courses must fill out a ballot form available from the Women and Gender Studies Program Office, Room 2036, Wilson Hall, New College, 40 Willcocks St. This form must be signed and approved by both the course instructor and the Undergraduate Coordinator for the Women and Gender Studies Program. Students cannot enrol in 400-Series courses on ROSI.

**WGS425YI Women and Issues of International Development 52S**

Provides a gender analysis of the political economy of development and globalization, and a critical overview of related feminist theoretical, policy, and strategy debates. Issues explored include feminisation of labour, gender mainstreaming, trafficking in women, poverty-alleviation strategies, and transnational feminist organizing.

Recommended Preparation: NEW160Y1/WGS160Y1, POL201Y1 or another course addressing development issues, and a half course at the 300+ level in Women and Gender Studies.

This is a Social Science course

**WGS434HI/ 435HI Advanced Topics in Women and Gender Studies 26S**

An upper level seminar. Topics vary from year to year depending on instructor.

Recommended preparation: NEW160Y1/WGS160Y1 and one full course at the 300+ level in Women and Gender Studies

**WGS440HI Gender and the Sacred 26S**

This course examines how gender illuminates the sacred by focusing upon the forces of nature within the Vodou and Yoruba cosmological systems. We will explore how these sacred knowledges disturb the secular parameters of feminism through close attention to the conceptual and ceremonial practices among practitioners in the diaspora.

Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1 and one full course at the 300+ level in Women and Gender Studies.

Exclusion: NEW435HI/WGS435HI, winter session 2005.

**WGS445HI Migrations of the Sacred 26S**

Considers the gendered impact of migration on women's indigenous spiritual practices, taking globalization as a political economic starting point. The course focuses on the lives of women whose experiences emblemize displacement and examines how women's agency interrupts and transforms normative meanings of 'tradition' and 'modernity.'

Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1 and one full course at the 300+ level in Women and Gender Studies

**WGS451HI Independent Study in Women and Gender Studies Issues TBA**

Under supervision, students pursue topics in Women and Gender Studies not currently part of the curriculum.

Prerequisite: Permission of the Undergraduate Coordinator, Women and Gender Studies Program

# Women and Gender Studies

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**WGS460YI    Advanced Research Seminar in    TBA**  
**Women and Gender Studies**

Supervised individual research project undertaken in Third or Fourth year. Students attend a seminar to discuss research methods and findings. A required course for Specialist students. Prerequisite: Permission of the Undergraduate Coordinator; Women and Gender Studies Program  
Recommended Preparation: NEW160YI/WGS160YI and one full course at the 300+/400+ level in Women and Gender Studies.

**WGS461YI    Advanced Topics in Women and    52S**  
**Gender Studies**

An upper level seminar. Topics vary from year to year depending on the instructor.  
Prerequisite: NEW160YI/WGS160YI and a half course at the 300+ level in Women and Gender Studies

**WGS462HI    Advanced Topics in Gender and History    26S**

An upper-level seminar. Topics vary from year to year depending on instructor.  
Prerequisite: NEW160YI/WGS160YI and one full course at the 300+ level in Women and Gender Studies

**WGS463HI    Advanced Topics in Gender Theory    26S**

Senior students may pursue more advanced study in feminist theory. Topics vary from year to year depending on instructor.  
Prerequisite: NEW160YI/WGS160YI and one full course at the 300+ level in Women and Gender Studies

**WGS465HI    Special Topics in Gender    26S**  
**and the Law**

Senior students may pursue advanced study in gender and law. Topics vary from year to year.  
Prerequisite: NEW160YI/WGS160YI, NEW365HI/WGS365HI, or permission of the instructor

**WGS470YI    Women and Gender Studies    52S**  
**Practicum**

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.  
Prerequisite: NEW160YI/WGS160YI and at least one full course at the 300+/400+ level in Women and Gender Studies.



## Faculty

### Professors

A.N. Doob, AB, Ph D  
R.V. Ericson, MA, PhD, Litt.D., FRSC  
R. Gartner, MS, PhD  
F.J. Reid, M Sc, Ph D  
M. Valverde, MA, Ph D, FRSC

### Associate Professors

J.W. Browne, MA  
S. Wortley, MA, Ph D

### Assistant Professors

R. Levi, BCL, LLB, LLM, JSD  
W. Watson, BSc, PhD

### Senior Lecturers

W.B. MacDonald, BA, MA  
J.B. Rose, BA, MA  
T.P. Socknat, BAE, MA, PhD

### Lecturer

L. Riznek, MA, PhD

### Adjunct Professors

R.F. Barnhorst, BA, LLB, JSD  
B. Davies, BA, MA, LLB

Woodsworth College sponsors programs in two areas - Criminology and Employment Relations. The specialist and major programs in Criminology provide students with a foundation to begin the study of crime and the administration of the Canadian criminal justice system. The programs in Criminology may be combined with programs in Political Science, Psychology or Sociology.

The specialist and major programs in Employment Relations provide students with the opportunity to study the employment relationship in a Canadian context, from the perspectives of a number of disciplines such as economics, history, law, management, political science, and sociology. Students enrolled in the Criminology and Employment Relations programs are given priority when registering in WDW courses.

Enquiries: Program Office, Woodsworth College, Room 236 (416-978-5783), or at [www.wdw.utoronto.ca](http://www.wdw.utoronto.ca).

## Woodsworth College Programs

### Criminology (Arts program)

Consult Program Office, Woodsworth College.

Enrolment in the specialist program is limited. Students apply during the spring term of the year in which they complete either eight full credit courses or twelve full credit courses. Students applying after eight full credit courses must have obtained an average of at least 80% in WDW 200Y1 and 220Y1 combined, and have a CGPA of at least 3.0.

Students applying after twelve full credit courses must have obtained an average of at least 80% in WDW 200Y1 and 220Y1 and two additional full WDW Criminology credits, and have a CGPA of at least 3.0. Meeting the minimum requirements may not guarantee admission.

### Specialist program:

(10 full courses or their equivalent, including at least four 300+ series courses, one of which must be a 400-series course)

1. One 100-series full course equivalent chosen from the following list: ECO/HIS/PHL/POL/SOC
2. WDW 200Y1, 220Y1
3. WDW 300HI, 320HI, 335HI, 340HI, 350Y1
4. One full credit from: WDW 310HI, 360HI, 365HI, 370HI, 375HI, 380HI, 385HI, 387HI, 388HI, 389Y0, 390HI, 391HI, 392HI, 393HI, 394HI, 395HI, 396HI, 397Y1, 450HI
5. One full credit from: WDW 400HI, 405HI, 410HI, 415HI, 420HI, 435HI, 440HI, 480HI
6. Two full credits from: HIS 332HI, 355HI; PHL 271HI, 370HI; POL 332Y1; PSY 201HI, 202HI, 220HI, 240HI, 328HI; SOC 212Y1, 213Y1, 306Y1, 358HI; TRN 305Y1; or additional courses from Group 4 or 5 above

### Major program:

(7 full courses or their equivalent, including at least two 300+ series courses)

Enrolment in the major program is limited to students with a CGPA of at least 2.50 who have completed four or more full credits, including one of the courses specified under 1. below. Meeting the minimum requirements may not guarantee admission.

1. One 100-series full course equivalent chosen from the following list: ECO/HIS/PHL/POL/SOC
2. WDW 200Y1, 220Y1
3. Two full credits from: WDW 300HI, 310HI, 320HI, 335HI, 340HI, 350Y1, 360HI, 365HI, 370HI, 375HI, 380HI, 385HI, 387HI, 388HI, 389Y0, 390HI, 391HI, 392HI, 393HI, 394HI, 395HI, 396HI, 397Y1, 400HI, 405HI, 420HI, 480HI
4. Two full credits from: HIS 332HI, 355HI; PHL 271HI, 370HI; POL 332Y1; PSY 201HI, 202HI, 220HI, 240HI, 328HI; SOC 200Y1, 200HI, 202HI, 212Y1, 213Y1, 306Y1, 358HI; TRN 305Y1; or additional courses from Group 3 above

### Employment Relations (Arts program)

Consult Program Office, Woodsworth College.

Enrolment in the specialist program is limited to students with a CGPA of at least 2.50 who have completed four or more full credits, including ECO 100Y1 (67%)/105Y1 (80%) and SOC 101Y1. Meeting the minimum requirements may not guarantee admission.

### Specialist program:

(10 full courses or their equivalent including at least four courses at the 300+ level)

1. ECO 100Y1/105Y1; SOC 101Y1
2. WDW 244HI, 260HI
3. ECO 239Y1/339Y1; HIS 313HI
4. One full course equivalent from: ECO 220Y1; PSY (201HI and 202HI); SOC 200Y1/(200HI and 202HI)
5. One full course from: ECO 321Y1; HIS 263Y1; POL 103Y1, 214Y1
6. Two full course equivalents from: MGT 120HI, 223HI; SOC 207Y1, 317Y1, 339HI, 367HI, 370Y1, 375Y1; WDW 344HI, 345HI, 346HI, 347HI, 348HI, 349HI, 367HI, 378HI, 396HI, 397Y1
7. MGT 460HI; WDW 430Y1

## Major program:

(7 full courses or their equivalent including at least two at the 300+ level)

Enrolment in the major program is limited to students with a CGPA of at least 2.30 who have completed four or more full credits, including ECO 100Y1/105Y1 and SOC 101Y1. Meeting the minimum requirements may not guarantee admission.

1. ECO 100Y1/105Y1; SOC 101Y1
2. WDW244H1, 260H1
3. Two and a half credits, including at least one-half credit at the 300+ level from: ECO 239Y1/339Y1; HIS 313H1; MGT 120H1, 223H1; SOC 207Y1, 317Y1, 339H1, 367H1, 370Y1, 375Y1; WDW 344H1, 345H1, 346H1, 347H1, 348H1, 349H1, 367H1, 378H1, 396H1, 397Y1
4. MGT 460H1; WDW 430Y1

## Woodsworth College Courses

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See page 33 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 27), all WDW courses are classified as SOCIAL SCIENCE courses.

### Criminology Courses

For all WDW Criminology courses, students must be enrolled in the Specialist or Major Program in Criminology.

#### **WDW200Y1 Introduction to Criminology 52L, 26T**

The nature of crime and the Canadian system designed to control it. Introduction to major approaches to understanding crime and the development of criminal law, significant research on crime and the criminal justice system, laws and procedures related to crime and crime control in Canada. Not open to first year students.

Prerequisites: Four full credits including one full credit in ECO/HIS/PHL/POL/SOC, and a CGPA of 2.5

#### **WDW220Y1 Introduction to Criminal Law and Procedure 52L, 26T**

An introduction to criminal law and the criminal process. The essential elements of criminal liability, including defences to criminal charges, the general characteristics of offences against the person, sexual offences, regulatory offences, and 'victimless offences.' The criminal process, from investigation to sentencing, and the implications of the Charter of Rights for both substantive criminal law and criminal procedure.

Co- or Prerequisite: WDW200Y1

#### **WDW300H1 Crime: Theory and Policy 39L**

Major social and political theories of crime, law and justice, and their implications for policy development in the criminal justice system. The origins of central ideas that influence criminological theory and policy, seen in an historical context. Students are encouraged to develop the analytical skills needed to think critically about criminal justice policy.

Prerequisite: An average of at least 70% in WDW200Y1 and 220Y1 combined, and a CGPA of 2.5.

#### **WDW310H1 Crime and Society in Canadian History 39L**

Criminal justice history in the context of Canada's social, political and economic development from the 18th to the 20th centuries. Topics covered include: colonization and resistance,

gender and sexuality, policing and punishment, and the development of criminal law.

Prerequisite: WDW200Y1, 220Y1

#### **WDW320H1 The Prosecution Process 39L**

The historical evolution of the modern prosecution system. The exercise of discretion, and accountability for prosecutorial decision-making, recent adaptations and alternatives to the existing prosecution process, including current concepts of diversion, 'reintegrative shaming' and 'restorative justice.'

Prerequisite: WDW200Y1, 220Y1

#### **WDW335H1 Policing 39L**

A theoretical framework is developed to examine the nature of policing, its structure and function. Attention is given to the history of policing and to its public and private forms. An examination of the objectives and domain, as well as the strategies, powers, and authority of contemporary policing; including decision-making, wrong-doing, accountability, and the decentralization of policing.

Prerequisite: WDW200Y1, 220Y1

#### **WDW340H1 Penology 39L**

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: WDW200Y1, 220Y1

#### **WDW350Y1 Research Methods in Criminology 52L, 26T**

An introduction to social science research methods used by criminologists. An understanding of the strengths and weaknesses of published criminological research is developed. Specific technical issues of sampling, measurement and statistics are taught in the context of examining alternative ways of answering research questions.

Exclusion: SOC200Y1, 200H1, 202H1

Prerequisite: An average of at least 70% in WDW200Y1 and 220Y1 combined, and a CGPA of 2.5.

#### **WDW360H1 Law and Psychiatry 39L**

The increasing involvement of psychiatrists and other mental health professionals in the criminal justice system over the past 150 years, including contemporary Canadian practices. Emphasis is placed on understanding and evaluating competing interpretations of this phenomenon.

Prerequisite: WDW200Y1, 220Y1

#### **WDW365H1 Crime and Mind 39L**

Legal, psychological and sociological understandings of issues in the criminal justice system, through a consideration of topics including: criminal intent, the insanity defence, the concept of 'psychopathy', the use of 'battered woman syndrome' as part of a self-defence, issues of transcultural psychiatry, and jury screening for bias.

Prerequisite: WDW200Y1, 220Y1

#### **WDW370H1 Youth Justice 39L**

Administration of the youth justice system in Canada. The Youth Criminal Justice Act provides a legal framework for considering individual rights, the protection of society, and the welfare of young people. An analysis of legal principles and practices at various stages in the youth justice process. Policy issues and proposals for reform.

Prerequisite: WDW200Y1, 220Y1

<p><b>WDW375HI Young Offenders 39L</b> Historical and contemporary definitions of illegal conduct by young persons. The nature and extent of youth crime, and an analysis of theories which attempt to explain it. Assessment of the effectiveness of treatment and other strategies for preventing and responding to youth crime. Prerequisite: WDW200Y1, 220Y1</p> <p><b>WDW380HI Crime and Gender 39L</b> 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: WDW200Y1, 220Y1</p> <p><b>WDW385HI Representing Crime &amp; Authority 39L</b> Cultural constructions of crime, disorder, dangerousness and risk are integral parts of the criminal justice system. A critical analysis of how police, crown attorneys, judges and the media construct their authority through symbols and images, in order to “explain” and manage crime, and how these representations are regarded in public discourse. Prerequisite: WDW200Y1, 220Y1</p> <p><b>WDW387HI Legal Regulation of Morality 39L</b> Regimes for prohibiting and regulating consensual activities such as drug use, pornography, prostitution, abortion, assisted suicide and gambling. Historical evolution of the law, current substantive elements required for conviction, philosophical and criminological perspectives on the decriminalization or legalization of these activities, and an examination of how other countries regulate them. Prerequisite: WDW 200Y1, 220Y1 Exclusion: WDW 391HI in 2002</p> <p><b>WDW388HI Drugs, Crime &amp; Control 39L</b> Drugs, drug use and addiction from a criminological perspective. The history and social construction of addiction, licit and illicit drugs, criminal and disease models of drug use, drug control laws, drugs in the media, legal and constitutional issues related to drug control, policy reform, and implications for social control. Prerequisite: WDW 200Y1, 220Y1 Exclusion: WDW 390HI in 2005</p> <p><b>WDW389Y0 Topics in Criminology TBA</b> Topics in Criminology offered in an international setting. The content may vary from year to year.</p> <p><b>WDW390HI/ Topics in Criminology 39L</b> <b>391HI/</b> <b>392HI/</b> <b>393HI/</b> <b>394HI</b> Topics vary from year to year, but the objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications. Prerequisite: WDW200Y1, 220Y1</p> <p><b>WDW395HI Independent Study TBA</b> Independent study under the direction of a Criminology faculty member. Prerequisite: WDW200Y1, 220Y1. Approval of the Undergraduate Co-ordinator is required.</p>	<p><b>WDW400HI Current Issues in Criminology 26S</b> An advanced seminar exploring in detail current issues in Criminology. Topics vary from year to year, but the objective of the course is to discuss current issues and their social, ethical and legal implications. Prerequisite: An average of at least 75% in four full WDW Criminology credits, and a CGPA of at least 3.0.</p> <p><b>WDW405HI Risk, Uncertainty &amp; Criminal Justice 26S</b> An advanced seminar exploring how new conceptions of risk and uncertainty are transforming responses to crime. Leading edge theories and empirically based studies of how risk and uncertainty are addressed in law, the contemporary criminal justice system, and other social institutions. Prerequisite: An average of at least 75% in four full WDW Criminology credits, and a CGPA of at least 3.0.</p> <p><b>WDW410HI History of Canadian Criminal Justice 26S</b> An advanced seminar examining themes of Canadian criminal justice history, from the late-eighteenth to the mid-twentieth centuries. The course does not concentrate on the “facts” of history; rather it examines how historians interpret and present historical material. Critical analytical skills are developed through the exploration of historical writing. Prerequisite: WDW300HI, 310HI, 350Y1, enrolment in the Criminology Specialist program</p> <p><b>WDW415HI Crime and Politics 26S</b> An advanced seminar examining the development of criminal justice and penal policies in Canada, the United States, Western Europe and Russia; the way authorities in those countries define and manage political deviance and the intrusion of politics into the administration of justice, especially in non-democratic settings. Prerequisite: WDW300HI, 350Y1, enrolment in the Criminology Specialist program</p> <p><b>WDW420HI Current Issues in Criminal Law 26S</b> An advanced seminar exploring in detail current issues in criminal law. Topics vary from year to year, but 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. Prerequisite: An average of at least 75% in four full WDW Criminology credits, and a CGPA of at least 3.0.</p> <p><b>WDW435HI Seminar in Policing 26S</b> An advanced seminar examining the policing function from an historical, social and legal perspective, with emphasis on changes in the organization, structure and control of policing, and the implications of the different forms of policing for crime control, maintenance of order, and social control. Prerequisite: WDW300HI, 335HI, 350Y1, enrolment in the Criminology Specialist program</p> <p><b>WDW440HI Seminar in Penology 26S</b> An advanced seminar examining contemporary issues in criminal punishment. Theories of punishment and the development of prisons in the wider system of social control in Western societies. Modern penal systems from social and legal perspectives. Prerequisite: WDW300HI, 340HI, 350Y1, enrolment in the Criminology Specialist program</p>
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**WDW450HI Criminology Research Project TBA**

An individual research project under the direction of a Criminology faculty member. Approval of the Undergraduate Co-ordinator is required.

Prerequisite: WDW300HI, 350YI, enrolment in the Criminology Specialist program

**WDW480HI Interpersonal Violence 26S**

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; law's violence; and how violence is justified and denied.

Exclusion: WDW 400HI in 2004-2006

Prerequisite: An average of at least 75% in four full WDW Criminology credits, and a CGPA of at least 3.0.

**WDW378HI Employment Health 39L**

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: WDW 244HI, 260HI

**WDW430YI Employment Law 52L**

The major legal structures which regulate the employment relationship in the private and public sectors: the common law of contract (master/servant law), legislation governing collective bargaining, the primary statutes (employment standards act, human rights code, workers' compensation act, labour relations act, occupational health and safety act).

Prerequisite: ECO244YI/WDW244HI/244YI, WDW260HI/260YI, enrolment in an Employment Relations program

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**Employment Relations Courses****WDW244HI Labour Relations 39L**

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.

Exclusion: ECO244YI, WDW244YI

Prerequisite: Four courses and a CGPA of at least 2.0

**WDW260HI Organizational Behaviour 39L**

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.

Exclusion: MGT262HI, PSY332HI

Prerequisite: Four courses and a CGPA of at least 2.0

**WDW344HI/ Topics in Employment Relations 39L**  
**345HI/**  
**346HI/**  
**347HI/**  
**348HI/**  
**349HI**

Topics vary from year to year, but the objective of the course is to discuss current employment relations issues and their economic, legal, political and social implications.

**WDW367HI Compensation 39L**

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: WDW260HI/MGT262HI

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**Other Woodsworth College Courses****WDW299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 47 for details.

**WDW396HI/ Research Participation TBA**  
**397YI**

Credit course for supervised participation in a faculty research project. Offered only when a faculty member is willing and available to supervise. Faculty members review proposals with the Program Director, then make the opportunity known to students as appropriate. Open only to third and fourth year students enrolled in a Criminology or Employment Relations program.

Prerequisite: Completion of at least nine full courses. A

CGPA of at least 3.0 is recommended. Approval of the Undergraduate Coordinator is required.

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**Writing and Rhetoric: see Innis College**

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# Writing in Arts and Science

## Writing in Arts and Science

(Note: For courses in creative writing, see entries under “English” (ENG), “Innis College” (INI) and “Victoria” (VIC) in this Calendar.)

The ability to think critically and to write well-organized, clear, grammatical prose is important to your work in many courses. It will improve your chances if you apply to graduate or professional schools and will also give you an advantage in the workplace. To help you develop your writing skills, Arts and Science provides a range of instructional resources.

### Courses

Departments and programs integrate instruction on writing into their courses, and some offer courses that concentrate on communication in their disciplines. Check the course listings by department. In any course, your instructors will provide guidelines for course assignments, and you may ask them to discuss written work that has been graded and returned to you.

In addition, the university offers a number of courses in writing non-fiction prose:

ENGI00HI (Effective Writing) is listed under “English” in this Calendar

TRNI90YI (Critical Reading and Critical Writing) is listed under “Trinity College”

Innis College now offers a minor program called Writing and Rhetoric. See the program website at [www.utoronto.ca/innis/wr/](http://www.utoronto.ca/innis/wr/). Its offerings include the following courses, all listed under “Innis College”: INI200YI (Writing Essays and Reports), INI203YI (Foundations of Written Discourse), INI204YI (The Academic Writing Process), INI300YI (Strategic Writing in Business and the Professions: Theory and Practice), INI301HI (Contemporary Issues and Written Discourse: Rhetoric and the Print Media in Canada), INI304HI (Critical Thinking and Inquiry in Written Communication), INI305H (Word and Image in Modern Writing), INI311YI (Seminar in Creative Writing), and INI412YI (Prose Style across Genres).

The University of Toronto at Mississauga (UTM) offers a major and minor program in Professional Writing and Communication. For more information, see the program’s website at [www.erin.utoronto.ca/~w3profwr/UTMPWCWebsite](http://www.erin.utoronto.ca/~w3profwr/UTMPWCWebsite). Consult with your college registrar about taking courses at UTM. These are among the courses offered: WRI203H5 (Expressive Writing), WRI303H5 (Specialized Prose), WRI307H5 (Science and Writing), WRI310H5 (Social and Professional Languages), WRI320H5 (History and Writing), WRI325H5 (Community and Writing), WRI330H5 (Oral Rhetoric), WRI340H5 (Critical Reading and Listening), WRI392H5 (Research and Writing), WRI395H5 (Re-linguaging: Writing across Cultures and Languages), and WRT420H5 (Making a Book).

**WRT Courses** provide opportunities for senior students to develop advanced writing skills in their disciplines. These courses count for degree credit but are evaluated on a CREDIT / NO CREDIT basis. No grades are awarded or calculated in the GPA. Regular tuition is charged. These courses cannot be taken to fulfill the distribution requirement.

### WRT306HI Writing for Scientists 26L

Intensive practice and instruction for senior science students. Teaches the essentials of writing in science courses and scientific research. Examines individual and collaborative activities in academic and professional life, focusing on such genres as the abstract, research report, poster, proposal, and product documentation. Readings introduce themes applicable to written communication in the sciences.

Prerequisite: 9.0 courses completed; major or specialist enrolment in science program

Exclusion: CSC290HI, HMB397HI, PSY309HI, PSL497HI, WRT307HI

WRT306HI has NO distribution requirement status.

### WRT307HI Writing for Social Scientists 26L

Intensive practice and instruction for senior social-science students. Teaches the essentials of social-science writing in academic and professional life, with attention to individual and collaborative projects. Focuses on genres such as the abstract, proposal, research report, and position paper. Readings introduce themes applicable to written communication in the social sciences.

Prerequisite: 9.0 courses completed; major or specialist enrolment in social science program

Exclusion: INI204YI, INI300YI, WRT306HI

WRT307HI has NO distribution requirement status.

## Writing Centres

The Writing Centres provided free of charge at undergraduate colleges will help you develop the writing skills needed throughout your university studies. They offer both individual and group instruction. See the webpage [www.utoronto.ca/writing/news.html](http://www.utoronto.ca/writing/news.html) for announcements about group workshops and non-credit courses.

In individual consultations, trained writing instructors help you improve your ability to plan, write, and revise, using your assignments from any subject as examples. Some instructors specialize in the needs of students using English as a second language. You are entitled to use the writing centre of the college where you are registered or living in residence, or of the department where you are taking a course. Here is a list of Arts and Science writing centres, including phone numbers and websites for obtaining further information and making appointments:

French Department Writing Labs: ask your professor or inquire at 416-926-2302

Innis College Writing Centre, Room 322, 416-978-2513

New College Writing Centre, Wilson Hall, Room 2045 and 2047, [www.ncwriting.ca](http://www.ncwriting.ca)

## **Writing in Arts and Science**

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Philosophy Department Writing Clinic, 215 Huron Street, 9th Floor,  
416-978-3314

St. Michael's College Writing Centre, Kelly Library, Rooms 230 and  
231, [www.utoronto.ca/stmikes/campus/student\\_services\\_](http://www.utoronto.ca/stmikes/campus/student_services_wc.html)  
[wc.html](http://www.utoronto.ca/stmikes/campus/student_services_wc.html)

Trinity College Writing Centre, Larkin Building, Room 302, [www.](http://www.trinity.utoronto.ca/Writing/)  
[trinity.utoronto.ca/Writing/](http://www.trinity.utoronto.ca/Writing/)

University College Writing Workshop, Laidlaw Library, Room 214,  
[www.utoronto.ca/ucwriting/](http://www.utoronto.ca/ucwriting/)

Victoria College Writing Workshop, Northrop Frye Hall, Rooms  
103A and 103B, [www.vicu.utoronto.ca/academic/tutorial/](http://www.vicu.utoronto.ca/academic/tutorial/writing.htm)  
[writing.htm](http://www.vicu.utoronto.ca/academic/tutorial/writing.htm).

Woodsworth College Academic Writing Centre, Room 214,  
[www.wdw.utoronto.ca/current/awchome.htm](http://www.wdw.utoronto.ca/current/awchome.htm).

### **Self-Help Material**

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Campus libraries stock many reference guides on academic writing. Besides general handbooks on style and format, you will find books that specialize in the ways to write for specific disciplines. You can also consult the website "Writing at the University of Toronto" at [www.utoronto.ca/writing](http://www.utoronto.ca/writing). It offers over 60 specialized files giving advice on university writing, along with links to other useful online and print resources, and it gives current information on writing instruction at U of T.

**Yiddish: see Germanic Languages &  
Literatures**

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**Zoology: see Life Sciences: Zoology**

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## Rules & Regulations

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### Rules and Regulations

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## Important Notices

While Departmental counsellors and the Registrars of the Colleges are always available to give advice and guidance, it must be clearly understood that THE ULTIMATE RESPONSIBILITY RESTS WITH THE STUDENT for completeness and correctness of course selection, for compliance with prerequisite, co-requisite requirements, etc., for completion of Program details, for proper observance of the Distribution Requirement and for observance of regulations, deadlines, etc. Students are responsible for seeking guidance from a responsible officer if they are in any doubt; misunderstanding, or advice received from another student will not be accepted as cause for dispensation from any regulation, deadline, program or degree requirement.

### Degrees Offered on the St. George Campus

Effective for students registering in a degree program in the Faculty for the first time in the 2001 summer session or later, the St. George Campus of the Faculty of Arts and Science has discontinued the 15-course (three-year) B.A. and B.Sc. degrees; ONLY 20-course (four-year) Honours B.A., B.Sc. and B.Com degrees will be available. Students registered in a degree program in the Faculty before the 2001 summer session may still choose a 15-course (three-year) degree.

### Changes in Programs of Study and/or Courses

The programs of study that our calendar lists and describes are available for the year(s) to which the calendar applies. They may not necessarily be available in later years. If the University or the Faculty must change the content of programs of study or withdraw them, all reasonable possible advance notice and alternative instruction 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. We must, however, reserve the right otherwise to change the content of courses, instructors and instructional assignments, enrolment limitations, pre-requisites and co-requisites, grading policies, requirements for promotion and timetables without prior notice.

### Regulations and Policies

The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the Faculty are displayed here. Applicable University policies are either fully displayed here or listed here. In applying to the Faculty, the student assumes certain responsibilities to the University and the Faculty and, if admitted and registered, shall be subject to all rules, regulations and policies cited in the calendar, as amended from time to time.

### 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 or sections for which enrolment or resources are insufficient notice and alternative instruction will be given. The University will not be liable for any loss, damages, or other expenses that such limitations or withdrawals might cause.

### 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, he or she must obtain the instructor's written consent beforehand. Otherwise all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by students with disabilities, the instructor's consent will not be unreasonably withheld.

### Person I.D. (Student Number)

Each student at the University is assigned a unique identification number. The number is confidential. The University, through the Policy on Access to Student Academic Records, 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.

### Fees and Other Charges

The University reserves the right to alter the fees and other charges described in the calendar.

### Notice of Collection concerning Freedom of Information and Protection of Privacy

The University of Toronto respects students' 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, financial assistance and awards, graduation and university advancement, and for the purpose of statistical reporting to government agencies. 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](http://www.utoronto.ca/privacy) or contact the University Freedom of Information and Protection of Privacy Coordinator at 416-946-7303, McMurrich Building, Room 201, 12 Queen's Park Crescent West, Toronto, ON, M5S 1A8.

### Registration

Details of the procedures by which students of the Faculty of Arts and Science register and enrol in courses for which they are eligible, and pay or make arrangements to pay fees, are found in the *Registration Handbook and Timetable*, which students receive from their college. (Any student allowed to register one day after the end of the first week of classes is charged a late fee.

### Passed Courses May Not Be Repeated

Students may not repeat any course in which they have already obtained a mark of 50% or higher. The only exceptions occur when students require a course with a specific grade for entry to a limited-enrolment Program. Students may repeat such a



# Rules & Regulations

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course only once as an “extra” course, which will have no effect on status or Grade-Point Average. There are no supplemental examinations or provisions to “upgrade” a mark. All courses taken, except those officially cancelled, remain on the record.

## Degree Courses and “Extra” Courses: Chronological Principle

Courses are credited towards a degree chronologically. For example, if a student has already passed six 100-series courses and then enrolls in further 100-series courses, the more recent courses are counted as “Extra” courses. An exception occurs when a student who has completed 5.5 100-series courses enrolls in a full course at the 100-level in a subsequent session; the most recently taken half-course becomes “extra.”

## Taking Courses Outside the Faculty

### Courses at University of Toronto Scarborough and University of Toronto Mississauga

Students registered on the St. George campus of the Faculty of Arts and Science may enrol in most courses offered by University of Toronto Mississauga and University of Toronto Scarborough, provided that they meet the enrolment controls and prerequisites established by those divisions. These courses count towards the 20 credits required for a St. George degree and are included in the CGPA. These courses may also count towards St. George program requirements; students should check with their program office before enrolling.

However, there are some courses offered by University of Toronto Mississauga and University of Toronto Scarborough that may not be counted towards St. George degree credit or the CGPA. A full list of these courses is posted on the Arts and Science web site at [www.artsandscience.utoronto.ca/ofr/calendar/utmutsc.htm](http://www.artsandscience.utoronto.ca/ofr/calendar/utmutsc.htm).

A student who wishes to enrol in one of these courses should petition through his/her College Registrar's office. If the petition is granted the student will be permitted to enrol in the course but it will be marked as “EXTRA” on the transcript and will not be counted for degree purposes nor included in the CGPA calculation.

### Courses of Other Divisions

Students should select their courses from those offered in the Faculty of Arts and Science. If, however, they identify a course(s) offered in another division, faculty or school of the University that may be appropriate for inclusion in their degree program, they may petition for permission to register in the course for degree credit. In the petition, students must establish that the content and aims of the course(s) are valid for a specific Arts and Science program and cannot not be met by courses offered within the Faculty of Arts and Science. The students should initiate the procedure well in advance of the beginning of classes, so that they may choose alternate courses should the request is denied. The Faculty will not accept as reasons for taking courses in other divisions the wish to satisfy requirements to qualify for programs and organisations outside the Faculty or to prepare for non-academic or professional purposes.

Graduate Courses: Acceptance of petitions to take graduate courses is further subject to the requirements of the School of Graduate Studies (CGPA of 3.0).

Non-degree students may enrol through this Faculty in courses given by this Faculty or the University of Toronto Mississauga or the University of Toronto Scarborough only.

See the section on petitions and appeals starting on page 480 for more information.

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

Degree students with a cumulative grade point average of at least 1.50 before studying elsewhere may take a maximum of 5.0 full-course equivalents elsewhere for transfer credit. Students admitted with transfer credit may be limited in the number of courses that they may transfer after admission and should consult the chart available on the web at [www.artsci.utoronto.ca](http://www.artsci.utoronto.ca).

# Rules & Regulations

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utoronto.ca/current/undergraduate/tc. Prior to taking courses at another Canadian or American university, students are advised to request a Letter of Permission to confirm acceptability of those courses for transfer credit. Otherwise, students may submit a request for transfer credit after completing courses elsewhere. Permission obtained from an instructor or from a department for program purposes, however, does not obligate the Faculty to grant transfer credit. There is a \$25.00 non-refundable charge for each request. 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 the appropriate counselling concerning the Letter of Permission and/or Transfer Credit process.

## Note:

Only one transfer credit may be used to satisfy the requirement of 300+ series courses for the degree. Please refer to the Letters of Permission and Transfer Credit (Post-Admission) Guidelines on the Registrar's Office web site at [www.artsci.utoronto.ca/current/undergraduate/tc](http://www.artsci.utoronto.ca/current/undergraduate/tc).

## Study Elsewhere Opportunities

U of T offers a wide range of opportunities to study elsewhere. For more information contact:

International Student Exchange Office  
Rm. 202, Koffler Centre, 214 College St.  
416-946-3138  
[student.exchange@utoronto.ca](mailto:student.exchange@utoronto.ca)  
[www.utoronto.ca/student.exchange](http://www.utoronto.ca/student.exchange)

Summer Abroad Program  
Room 231, Woodsworth College, 119 St. George St.  
416-978-8713  
[summer.abroad@utoronto.ca](mailto:summer.abroad@utoronto.ca)  
[www.summerabroad.utoronto.ca](http://www.summerabroad.utoronto.ca)

## Cancelling Courses or Registration

### Cancelling Courses

Students who do not intend to complete a course or courses must use the Student Web Service to cancel the course before the final date to cancel courses from the academic record (see Sessional Dates, page 6). Students still enrolled in a course after the final date to cancel the course will receive a grade for that course. Not attending classes or ceasing to complete further course work or not writing the examination do not constitute grounds for cancellation without academic penalty from a course; the course remains on the record with the grade earned, including "0" 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 disposition of the accusation.

### Cancelling Registration

Students who wish to cancel all their current courses, and do not intend to enrol in any other courses for the rest of the session (Fall, Winter or Summer) must cancel their registration by using the Student Web Service at [www.rosi.utoronto.ca](http://www.rosi.utoronto.ca) or in

writing by notifying their College Registrar. The cancellation of registration must be completed by the appropriate deadline in order for the student not to incur an academic penalty. Before any refund is authorized, they must:

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

## Corrections to the Academic Record

The Faculty will accept requests for corrections to an academic record of the Fall-Winter Session up to the following 15 November, and corrections to their record of the Summer Session up to the following 28/29 February.

## Note:

Students are responsible for ensuring that they provide a valid mailing address to assure that they receive a Statement of Results at the end of the Fall-Winter and Summer Sessions. The mailing address must be kept up-to-date on the Student Web Service at [www.rosi.utoronto.ca](http://www.rosi.utoronto.ca). Students who cease attending a course without officially cancelling or after the cancellation deadline will be considered to be enrolled in that course. It will be included in their official Statement of Results.

## Fees

Fees are subject to change at any time by approval of the Governing Council. Tuition fees normally consist of academic fees (including instruction and library) and incidental/ancillary fees (including Hart House, Health Services, Athletics and student organizations). Additional ancillary fees may also be assessed for enrolment in some specific courses. Consult the Student Accounts web site at [www.fees.utoronto.ca](http://www.fees.utoronto.ca) or the Bursars of St. Michael's and Trinity Colleges.

## Fees Invoice and Payment

Students receive an invoice by mail or in person at Students Accounts or their college bursar's office (St. Michael's and Trinity students) detailing fees for their specific program and selection of courses. Payment is made at a financial institution — consult the instructions sent with the invoice. You can also pay your fees using telephone or online banking if your bank offers this service. Refer to the Registration Handbook & Timetable for further details.

## Payment Deadlines

Deadlines are available from the Student Accounts Office or from the college bursar's offices (St. Michael's and Trinity students).

To avoid delays, students are advised to pay fees early.

All fees and charges posted to your account are payable. If not paid in full, any outstanding account balance is subject to a monthly service charge of 1.5% per month compounded (19.56% per annum). Outstanding charges on your account from prior sessions are subject to a service charge as of the 15th of every month until paid in full."

Students with outstanding accounts may not receive official

# Rules & Regulations

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transcripts and may not re-register at the University until these accounts are paid.

## **Fees for International Students**

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In accordance with the recommendation of the Government of Ontario, certain categories of students who are neither Canadian citizens nor permanent residents of Canada are charged higher academic fees. Refer to the Student Accounts web site at [www.fees.utoronto.ca](http://www.fees.utoronto.ca) for details.

Further information on fees may be obtained by students of Innis, New, University, Victoria and Woodsworth Colleges from the Student Accounts Office, University of Toronto, 215 Huron St., Toronto, Ontario, M5S 1A2; 416-978-2142. Students of St. Michael's and Trinity Colleges should consult their College Bursar.

## **Financial Assistance**

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A limited number of in-course bursaries, scholarships and awards is 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 web sites:

Faculty of Arts & Science web site: [www.artsci.utoronto.ca](http://www.artsci.utoronto.ca)

Admissions and Awards web site: [www.adm.utoronto.ca/fa/](http://www.adm.utoronto.ca/fa/)

or the College Registrars' offices and web sites.

## **Sanctions on Account of Outstanding Obligations**

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The following are recognized University obligations:

- (a) tuition fees;
- (b) academic and other incidental fees;
- (c) residence fees and charges;
- (d) library fines;
- (e) loans made by Colleges, the Faculty or the University;
- (f) Health Service accounts;
- (g) unreturned or damaged instruments, materials and equipment;
- (h) 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 and Science students with outstanding University obligations:

1. Official transcripts of record will not be issued;
2. Registration will be refused to continuing or returning students.

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

## **Course Marks**

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### **Term Work and Term Test Regulations**

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The following regulations summarize the Faculty's implementation of the University's Grading Practices Policy, Parts I and II of which are reprinted in full starting on page 484 (Part III is an administrative appendix and is available upon request from the Office of the Vice-President and Provost; however grade scales may be seen on page 478 of this *Calendar*).

### **Marking Schemes**

Both essays (or equivalent work) and examinations (including term tests) are normally required for standing in courses. In courses where only one form of evaluation is used, a single piece of work cannot count for all of the final mark.

Self-evaluation by individual students or by groups of students is not permissible unless the specific consent of the Arts and Science Faculty Council is received.

As early as possible in each course, and no later than the last date to enrol in courses, the instructor must announce in a regularly-scheduled class the methods by which student performance will be evaluated, their relative weight in the final mark, including any discretionary factor, and the due dates. These methods must be in accord with applicable University and Faculty policies (See TERM WORK and TERM TEST below, especially bold-faced items.) Instructors must file a copy of their marking scheme for each course with the Departmental or Program Office at the beginning of the term.

Once the weight of each component of the course work is given, it may not be changed unless approved by a majority of the students present and voting at a regularly-scheduled meeting of the class.

After the last date to cancel the course without academic penalty, no change in marks weighting may take place unless there is unanimous consent of all students present and voting, and notice must be given at the regularly-scheduled class meeting previous to that at which the issue is to be raised.

Students may petition for deletion of the course from their record and receive an appropriate fees refund, should an infraction of the Grading Practices Policy occur. Petitions must be filed by the last day of classes, before all course work has been completed.

### **Term Work**

Instructors MUST assign, grade and return at least one significant assignment as early as possible, and at the latest BEFORE the final date to cancel without academic penalty.

All term work must be submitted on or before the last day of classes in the course concerned, unless an earlier date is specified by the instructor. Students who for reasons beyond their control are unable to submit an assignment by its deadline must obtain approval from their instructor for an extension of the deadline. This extension may be for no longer than the end of the Final Examination period. If additional time beyond this period is required, students must petition through their College Registrar before the end of the examination period for a further extension of the deadline.

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 with such detailed comment as the instructor deems appropriate, and time made available for discussion of it. Any enquiries about a graded piece of work must be made within one month of the date the work was returned to the class. Instructors must keep unclaimed term work for at least six months beyond the end of the course.

### 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.

All term tests must be held on or before the last day of classes. No term test may be held during the "Reading Week" in February, during the "Study Week" in April, or during Faculty Examination Periods, except for those in F or Y-courses scheduled by the Faculty in December.

### Missed Term Tests

Students who miss a term test will be assigned a mark of zero for that test unless they satisfy the following conditions:

1. Students who miss a term test for reasons entirely beyond their control may, within one week of the missed test, submit to the instructor or department/program a written request for special consideration explaining the reason for missing the test, and attaching appropriate documentation, such as a medical certificate.
2. If a written request with documentation cannot be submitted within one week, the department may consider a request to extend the time limit.
3. A student whose explanation is accepted by the department will be entitled to one of the following considerations:
  - a) In courses where there is no other term work as part of the evaluation scheme, a makeup test must be given.
  - b) In other courses, the department/program may either give a makeup test OR increase the weighting of other graded work by the amount of the missed test. In no case may the weighting of the final examination in a 100-level course be increased beyond 2/3 of the total course mark.
4. If the student is granted permission to take a makeup test and misses it, then he or she is assigned a mark of zero for the test unless the department/program is satisfied that missing the makeup test was unavoidable. No student is automatically entitled to a second makeup test.\*
5. A student who misses a term test cannot subsequently petition for late withdrawal from the course without academic penalty on the grounds that he or she has had no term work returned before the drop date.

#### \* Note

This means that if a department is persuaded of the student's grounds for missing the makeup test, it may decide to compensate for the missed test in whatever way it chooses, which could be by giving another makeup test; the student cannot demand another makeup test.

### Faculty Final Examinations

A Faculty final examination common to all sections of the course and counting for between one-third and two-thirds of the final mark must be held in each 100-series course, unless exemption has been granted by the Arts and Science Faculty Council. In 200-, 300- and 400-series courses, the Departments will decide whether or not an examination is appropriate, and report to the Committee. The ratio of term work to examination mark 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 session or sub-session. 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. 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.

Students who are unable to write their examinations due to illness, domestic affliction, etc., should contact their College Registrar (see "Petitions Regarding Examinations", page 481). Students who have two Faculty final examinations at the same time, or three consecutive Faculty final examinations (e.g., morning, afternoon, evening; or afternoon, evening, next morning) should contact the Office of the Faculty Registrar well before the examination period begins. Information regarding dates, times and locations of examinations will not be given by telephone; for the most up to date examination timetable consult the Faculty Website.

### Rules for the Conduct of Examinations

1. No person will be allowed in an examination room during an examination except the candidates concerned and those supervising the examination.
2. Candidates must appear at the examination room at least twenty minutes before the commencement of the examination.
3. Candidates shall bring their student photo identification cards and place them in a conspicuous place on their desks.
4. Bags and books are to be deposited in areas designated by the Chief Presiding Officer and are not to be taken to the examination desk or table. Students may place their purses on the floor under their chairs.
5. The Chief Presiding Officer has authority to assign seats to candidates.
6. Candidates shall not communicate with one another in any manner whatsoever during the examination.
7. No materials or electronic devices shall be brought into the room or used at 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, but are not limited to: cellular telephones, laptop computers, calculators, MP3 players (such as an iPod), Personal Digital Assistants ("PDA" such as Palm Pilot or Blackberry), pagers, electronic dictionaries, Compact Disc Players, and Mini Disc Players..

## **Rules & Regulations**

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8. Candidates who bring any unauthorized materials or electronic devices into an examination room or who assist or obtain assistance from other candidates or from any unauthorized source are liable to penalties under the Code of Behaviour on Academic Matters, including the loss of academic credit and expulsion.
9. In general, candidates will not be permitted to enter an examination room later than fifteen minutes after the commencement of the examination, nor to leave except under supervision until at least half an hour after the examination has commenced.
10. Candidates shall remain seated at their desks during the final ten minutes of each examination.
11. At the conclusion of an examination, all writing shall cease. The Chief Presiding Officer may seize the papers of candidates who fail to observe this requirement, and a penalty may be imposed.
12. Examination books and other material issued for the examination shall not be removed from the examination room except by authority of the Chief Presiding Officer.

### **Special Accommodations Fee**

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Students who request permission to write an examination outside the normal examination arrangements must submit a petition making their request at least three weeks prior to the beginning of the examination period. Late requests cannot be accommodated. A non-refundable fee of \$30.00 for each examination is charged at the time of application. Students who have been granted permission to write a deferred examination will pay this fee in addition to the deferred examination fee of \$70.00 per examination.

If permission has been granted for the examination to be written at an "Outside Centre", students are also responsible for all costs for invigilation, postage, etc. charged by the centres involved. These costs can reach as high as \$100.00 per examination; students are advised to determine the total cost before petitioning. Such permission is granted only in the most extreme circumstances.

# Rules & Regulations

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## Grading Regulations

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### Grading Scale

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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 his/her 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 (see below), and thus do not necessarily correspond exactly to the scale above. For example, a B+ average would include grade point averages from 3.20 to 3.49, while the lowest B- average would be 2.50.

#### Note:

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

Other notations, which have no grade point values, and which may be authorized only by petition, are:

#### AEG

Aegrotat Standing on the basis of term work and medical evidence

#### CR/NCR

Credit/No Credit; is not in general use in the Faculty

#### NGA

No Grade Available

#### GWR

Grade withheld pending Review

#### IPR

(Course) In Progress

#### SDF

Standing Deferred granted by petition

#### WDR

Late Withdrawal without academic penalty after the relevant deadline. Removal of a grade for incomplete work when withdrawal before the end of the course has been caused by circumstances beyond the student's control, arising after the last date for course cancellation. Changes to the record will be authorized by petition only in exceptional circumstances.

#### EXT or XTR or X

Extra Course not for degree credit; course has no effect on status or grade point average.

## Grade Point Average

The Grade Point Average is the weighted sum (a full course is weighted as 2, a half-course as 1) of the grade points earned, divided by the number of courses in which grade points were earned.

However, courses noted "AEG" are not included in the average, nor are transfer credits, courses taken elsewhere on a Letter of Permission, nor courses designated as "extra." Courses taken as Non-degree students and Non-degree visiting students are included in the CGPA.

Three types of grade point averages are used:

1. The Sessional GPA is based on courses taken in a single session (Fall, Winter or Summer);
2. The Annual GPA is based on courses taken in the Fall-Winter Sessions;
3. The Cumulative GPA takes into account all courses not marked "extra" in the Faculty.

A Sessional, Annual, and Cumulative GPA is also calculated for all Non-degree and Non-degree 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.

## Academic Standing

There are four kinds of academic standing which apply to students who have attempted at least four courses in the Faculty: In Good Standing; On Probation; On Suspension; Refused Further Registration

Academic standing is assessed twice a year:

1. At the end of the Winter Session; the GPAs used for this status assessment are the annual and the cumulative GPAs.
2. At the end of the Summer Session; the GPAs used for this status assessment are the sessional and the cumulative GPAs.

### In Good Standing:

Students are described as In Good Standing if they are neither On Probation, Suspended nor Refused Further Registration; these terms are explained below. For students with particularly noteworthy academic results, there are three specific forms of recognition, which are described in the "Student Services & Resources" section starting on page 12.

### Probation; Suspension; Refused Further Registration

The following regulations apply to students who have attempted at least four courses\* in the Faculty.

1. A student shall be on academic probation who
  - a) has a cumulative GPA of less than 1.50 or
  - b) returns from suspension.
2. A student who, at the end of the Winter or Summer Session during which he or she is on probation
  - a) has a cumulative GPA of 1.50 or more shall be in good standing

- b) has a cumulative GPA of less than 1.50 but an annual GPA of 1.70 or more (Winter Session)/sessional GPA of 1.70 or more (Summer Session) shall continue on probation.
  - c) has a cumulative GPA of less than 1.50 and an annual GPA of less than 1.70 (Winter Session)/sessional GPA of less than 1.70 (Summer Session) shall be suspended for one calendar year unless he or she has been so suspended previously, in which case he or she shall be suspended for three years.
3. A student who, having been suspended for three years, is again liable for suspension shall be refused further registration in the Faculty.

\* Courses attempted are those in which a student remains formally enrolled on the last date for cancellation, unless the academic penalty normally attached to a later cancellation is removed by petition.

**NOTE: Students "On Academic Probation" may take no more than five courses in each of the Fall and Winter Sessions.**

## Grades Review Procedure

The Arts and Science Faculty Council administers the Grading Regulations, and reviews course grades submitted by Departments. The Faculty, through this Committee, is responsible for assigning the official course grades, which are communicated to the students by the Faculty Registrar.

Each Chair appoints a departmental review committee to review grades submitted by instructors. The committee may ask for clarification of any anomalous results or distributions, or disparity between sections of the same courses. Both the departmental review committee, through the Chair, and the Faculty review committee, through 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. Grades, as an expression of the instructor's best judgment of each student's overall performance, will not be determined by any system of quotas.

# Rules & Regulations

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## Appeals and Petitions

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Students are responsible for observing sessional dates, course prerequisites, and exclusion, satisfying the degree requirements and following the rules and regulations in the *Calendar* and the *Registration Handbook and Timetable*; failure to inform themselves of the preceding information may result in academic and/or financial penalties. Students should always consult their College Registrar 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.

## Departmental Appeals

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Issues arising within a course that concern the pedagogical relationship of the instructor and the student, such as the organization of a course, grading practices, or conduct of instructors, fall within the authority of the department or college sponsoring the course. Students are encouraged to discuss any issues regarding the academic aspects of a course with the instructor. It is recommended that if appropriate an issue should be documented in writing. The successive stages of appeal after the course instructor are as follows: the Undergraduate Secretary; the Chair of the Department or the College Program Director; then the Dean of the Faculty. An appeal must have been reviewed at the departmental level before referral to the Dean; appeals to the Dean **MUST** be in writing.

## Petitions to the Faculty

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Issues relating to degree requirements and administrative regulations may be petitioned to the Faculty within specific time limitations. The Faculty considers petitions to have regulations waived or varied, if a student presents compelling reasons; however, students must convince the Faculty that they have acted responsibly and with good judgment in observing Faculty regulations. The Committee on Standing routinely denies petitions that in its view do not present a valid reason for an exemption from the regulations. Students are encouraged to seek counselling and, if necessary, to initiate a petition through the office of their College Registrar.

Petitions must 1) state the student's request; 2) the reasons for the request in a clear and concise manner; and 3) be accompanied by relevant supporting documentation. The petition is considered in confidence by the Committee on Standing, which is charged with interpreting and administering the regulations of the Faculty. The Committee has the authority to grant exceptions and to attach conditions to its decisions.

It is the responsibility of the student to provide an accurate address to which a petition decision may be sent. Non-receipt of a decision due to postal error or incorrect address is not grounds for reconsideration.

## Deadlines to File Petitions

### Term Work

The last day of the examination period

### Examinations

Within one week of the end of the examination period; end of first week of classes in January for the December examination period

### Withdrawal

Fall-Winter Session courses: the following 15 November  
Summer Session courses: the following 28/29 February

All supporting documentation must be submitted within three weeks of the date of initiating the petition. Late petitions and petitions with late documentation will not be considered.

## Documentation in Support of Petitions

The Faculty seeks documentation that provides pertinent evidence for decisions determining whether or not an exception should be made to regulations that are designed to ensure equitable treatment for all students.

### Medical Documentation:

The University of Toronto Student Medical Certificate must be submitted in support of a request for an exemption from Faculty regulations, if illness is being used as the reason for the request. The claim of illness, however, is not sufficient grounds in itself to guarantee approval of the request. This certificate is available online at [www.utoronto.ca/health](http://www.utoronto.ca/health), or at the Health Services (Medical and Psychiatric Services), the Office of the Faculty Registrar, College Registrar's Offices, departments and other offices of the University as well as in the *Registration Handbook and Timetable*. The certificate is titled as follows:

### University of Toronto Medical Certificate

Other medical notes will not be accepted. Note that the physician's report must establish that the patient was examined and diagnosed at the time of illness, not after the fact. The Faculty will not accept a statement that merely confirms a report of illness made by the student for documentation by the physician.

## Petitions Regarding Courses in Other Divisions—see page 473.

## Petitions Regarding Term Work (see also page 475)

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 if an extension to the deadline is requested. All term work must be submitted by the last day of classes, unless an earlier date has been specified. Instructors may grant extensions beyond their own deadlines or beyond the last day of classes up to the last day of the examination period provided that a student presents reasons of illness, etc., with appropriate documentation. Extensions beyond the last day of the examination period interfere with the Faculty's schedule for the submission of final grades and must therefore be approved by petition. These petitions for an extension of time for term work must be initiated by the last day of the relevant examination period. Late requests will not be accepted. Students must file



# Rules & Regulations

the petition after consultation with the instructor regarding a suitable extension date. The Committee on Standing consults the department concerned for information about the status of the course work, and the steps, if any, that must be taken to complete the course. Students seeking an extension of time for term work are expected to continue their course work while they await a decision. They will not be granted additional time after the petition decision has been issued.

## Petitions Regarding Examinations (see also page 476)

Students are expected to write examinations as scheduled. Only in cases of documented debilitating illness or legitimate conflict should a student request a deferral of a final examination. Students who are too ill and/or incapacitated at the time of the examinations should petition to defer the examination they are unable to attend due to their medical condition. Petitions based on travel, employment, or personal plans will not be considered.

A deferred special examination at a subsequent examination period or the regular offering of the examination when next taught may be granted at the discretion of the Faculty. Satisfactory evidence in the form of the University of Toronto Student Medical Certificate\* (see above) must be provided to corroborate the illness. Students with chronic illnesses must provide medical documentation for the specific date on which the illness was acute. Students must submit a petition within one week of the end of the examination period through their college registrar. There is a fee of \$70.00 per deferred examination (maximum \$140.00). In the petition decision students are notified of the examination period in which the deferred examination will take place, and if the examination will be a regular or special examination. They must register and pay the fee by a given deadline, in order that arrangements can be made, an examination requested, etc. The Faculty will notify those who do not register by the deadline that they have lost their privilege of a deferred examination and will revert the grade to one that includes a "0" for the final examination. No further consideration will be given. The Faculty sends written notification to the students who have registered for deferred examinations of the specific date (within the already specified examination period), time and location of a deferred examination, as well as the reserved seating (if a special examination). Note, letters are mailed as early as possible, but due to the constraints of scheduling with the regular examinations, the mailing will occur five working days after the release of the regular August examination schedule, and ten working days after the release of the April/May and December examination schedules. Those who do not respond lose the privilege of a deferred examination and their grade reverts to one that includes a "0" for the final examination.

Final Examination	Deferred Examination
April/May	June examination period, if course is offered in Summer Session May to June; August examination period for all others
June	August examination period, if course offered in Summer Session May/July - August December examination period, if course offered in Fall Session August examination periods for all others

August	December examination period
December	April/May examination period, if course offered in Winter Session Reading Week for all others

Students who must write a deferred examination in a course that serves as a prerequisite for subsequent courses may enrol in those courses with the approval of the department concerned and provided that the term mark in the prerequisite (deferred) course is at least 60%.

## Notes:

N.B. Students who are granted Deferred Standing (i.e., the notation of "SDF", for an extension of time for term work or for a deferred examination) and who have earned a Cumulative Grade Point Average of less than 1.50, will not be permitted to enrol in further courses until the outstanding course work has been completed and final cumulative and sessional GPAs and status for the session have been assessed.

If students decide to write an examination which does not go well, they MAY NOT PETITION FOR A REWRITE. Post hoc arguments claiming an inability to function at full potential or to exhibit full knowledge of the subject matter will not be accepted as grounds for consideration of a petition concerning performance on an examination. Furthermore, students who choose to write an examination against medical recommendation should do so knowing that they will not be given consideration after the examination has been written. Students must not only take responsibility for making appropriate judgements about their fitness to attend examinations, but also must accept the outcome of their choices.

Students who miss a deferred examination receive a grade of "0" for the examination in the calculation of the final grade. If the Faculty accepts the student's reasons for missing a deferred examination as legitimate, a further deferred examination may be permitted; however, the "SDF" notation will be replaced by the original grade. Students are charged a further fee for each subsequent deferred examination. Note that in such situations of further deferrals the Committee on Standing regularly prohibits registration in further sessions until the outstanding course work has been completed.

## Appeals Against Petition Decisions

Appeals against petition decisions progress as follows:

1. First petition to the Committee on Standing by appropriate deadline submitted through College Registrar (see Deadlines to File Petitions);
2. Appeal to the Committee on Standing within ninety days of the first decision; second petition submitted through the College Registrar;
3. Appeal to the Faculty Academic Appeals Board within ninety days of the second decision; written request for a hearing submitted through the College Registrar;
4. Appeal to the Academic Appeals Committee of Governing Council within ninety days of the decision of the Faculty Academic Appeals Board; written request for a hearing submitted directly to the Governing Council Office in Simcoe Hall, to the attention of Mr. A. Gray.

# Rules & Regulations

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## Reassessment of Marks

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### Reread of Final Examination

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If a student believes that a final examination has been incorrectly marked in its substance, he/she may request a "reread." The student must first purchase a photocopy of the final examination from the Office of the Faculty Registrar, for a fee of \$13.00 per course. The student must then fill out a "Request for Reread of Final Examination" form, which is available at the Office of the Faculty Registrar and on the Faculty Registrar's web site at [www.artsci.utoronto.ca/current/undergraduate/exams](http://www.artsci.utoronto.ca/current/undergraduate/exams). The student must demonstrate that his/her 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 simply assert that "I disagree with the marking," or that "I believe I deserve more marks." The Department concerned will reread the examination in light of the arguments presented. There is a \$35.00 fee for this procedure, which is in addition to the fee of \$13.00 charged for the photocopy of the final examination. The fee must be submitted, with the completed form, to the Office of the Faculty Registrar within six months of the final examination period. If the mark is changed as a result of this review both the photocopy and reread fees will be refunded. It should be noted that when a course is failed, the examination must be reread before the mark is reported.

### Recheck of Course Mark

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If a student believes that there has been an arithmetical error in calculating the course mark, he/she may request a "recheck." This can be done with or without purchasing a photocopy of the final examination. The student must fill out a "Request for Recheck of Course Mark" form, which is available at the Office of the Faculty Registrar and on the Faculty Registrar's web site at [www.artsci.utoronto.ca/current/undergraduate/exams](http://www.artsci.utoronto.ca/current/undergraduate/exams). The student must indicate precisely where he/she thinks the error has occurred. The Department concerned will check that all answers have been marked, and that the marks have been added correctly; the examination will not be reread. The Department will also check that all term work marks have been correctly calculated. There is no charge for this procedure. The completed form must be submitted to the Office of the Faculty Registrar within six months of the final examination period. If the mark is changed as a result of this review, the photocopy fee will be refunded.

#### Note:

A reread or recheck may result in a raised mark, a lowered mark, or no change.

Deadlines for requesting a photocopy of a final examination, a reread or a recheck:

February examinations: the following August 31  
April/May examinations: the following November 15  
June examinations: the following January 15  
August examinations: the following February 28/29  
December examinations: the following June 30

## Student Records

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The "official student academic record" is maintained by the Faculty, which shall designate the document, form or medium containing the official version and how official copies of such information will be identified.

Student academic records refer to information concerning admission to, and academic performance at, this University. The "official student academic record" contains:

1. personal information which is required in the administration of official student academic records such as name, student number, citizenship, social insurance number;
2. registration and enrolment information;
3. results for each course and academic period;
4. narrative evaluations of a student's academic performance, used to judge his or her progress;
5. basis for a student's admission such as the application for admission and supporting documents;
6. results of petitions and appeals;
7. medical information relevant to a student's academic performance, furnished at the request or with the consent of the student;
8. letters of reference, whether or not they have been provided on the understanding that they shall be maintained in confidence;
9. personal and biographical information such as address, and telephone number.

## Access to Student Records

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### I. Access by a student.

- (i) Students may examine and have copies made of their academic record as defined above, with the exception of those portions of the record which comprise letters of reference which have been provided or obtained on the expressed or implied understanding that they shall be maintained in confidence. A student may however, be advised of the identity of the authors of any confidential letters contained in his or her official academic record.
- (ii) Students' requests to examine any part of their "official student academic record" shall be made in writing and shall be complied with within thirty days of receipt.
- (iii) Students may challenge the accuracy of their academic record with the exception of the materials specifically excluded above and may have their record supplemented with comments so long as the sources of such comments are identified and the official student academic record remains securely within the custody of the academic division. Reference to such comments would not necessarily appear on official academic reports such as the transcript or the Statement of Results. (Note that access to medical information shall only be granted to members of the teaching and administrative staff with the prior expressed or implied consent of the student and, if applicable, in the case of a medical assessment, the originator (physician, etc.) of such.)
- (iv) It is assumed that all documents relating to petitions and appeals and not provided on the understanding that they shall be maintained in confidence will be retained within the division, and when needed by the student, will be made freely available. In addition, The Statutory Powers Procedure Act, 1971 of Ontario requires that where the

good character, propriety of conduct or competence of a party is in issue in any proceedings in a tribunal to which the Act applies (such as the Academic Appeals Board of the Governing Council), the part is entitled to be furnished prior to the hearing with "reasonable information" of any allegations with respect hereto.

## 2. Access by University Staff.

Members of the teaching and administrative staff of the University shall have access to relevant portions of a student's academic record in the performance of their duties.

## 3. Access by U ofT campus organizations.

Student organizations in the U. of T. may have access to all information available freely to persons outside the university and to the residence address and telephone number of the student, for the legitimate internal use of that organization.

## 4. Access by Others

- a) By the act of registration, a student gives implicit consent for a minimal amount of information to be made freely available to all inquirers:
  - the academic divisions(s) and the session(s) in which a student is or has been registered,
  - degree(s) received and date(s) of convocation.
- b) Any other information shall be released to other persons and agencies only with the student's prior expressed written consent, or on the presentation of a court order, or in accordance with the requirements of professional licensing or certification bodies or the Ministry of Colleges and Universities for an annual enrolment audit, or otherwise under compulsion of law. A record shall be kept of permissions granted to any persons or agencies outside the university for access to a student's academic record.
- c) General statistical material drawn from academic records not disclosing the identities of students may be released for research and informational purposes.

## Refusal of Access

The University reserves the right to withhold transcripts of students who have outstanding debts.

## Custody of Student Academic Records

Academic records are normally under the custodial responsibility of the academic divisions. Seventy-five years after a student has ceased to be registered, all such records become the responsibility of the University Archivist and become open to researchers authorized by the University of Toronto.

## Personal Information

Personal information is a vital part of the student's official University record and is used to issue statements of results, transcripts, graduation information, diplomas and other official documents. The University is also required by law to collect certain information for the Federal and Provincial Governments; this is reported only in aggregate form and is considered confidential by the University.

Any change in the following must therefore be reported immediately to the College Registrar:

1. legal name;
2. Social Insurance Number;
3. citizenship status in Canada;

## Mailing Address

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Address information (mailing and permanent) must be viewed and changed on the Student Web Service (at [www.rosi.utoronto.ca](http://www.rosi.utoronto.ca)) or in your College Registrar's Office. It is the student's responsibility to ensure that the mailing address is kept up-to-date on the SWVS.

## E-Mail Address

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As a student at the University of Toronto, you have automatic access to the Information Commons, which is your passport to e-mail, the library and the Internet. Once you have your TCard, you must activate your University of Toronto e-mail account. Setting up a UTORmail account is mandatory; see "University Policy on Official Correspondence with Students" on the next page.

## T-Card

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The T Card is a wallet-sized card bearing the student's photograph, and serves as evidence of registration in the Faculty and as a library card. It is used for identification purposes within the University, such as Faculty examinations, student activities, and Athletic Association privileges. The loss of the card must be reported promptly to the College Registrar, and the card must be surrendered if a student withdraws from the University or transfers to another College or Faculty. There is a fee for the replacement of lost cards.

## Statement of Results

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Statements of Results are sent to students at their mailing address as it appears on ROSI at the end of the Winter and Summer Sessions. Students should expect to receive their Statements within six weeks of the end of the examination period, and should contact their College Registrar immediately if the Statement of Results has not been received. Statements of Results are not issued at the end of the Fall Session. Results for "F" courses are available on the Student Web Service in January for the Fall Session and in July for the first sub-session of the Summer Session.

## Transcripts

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The transcript of a student's record reports courses in progress and the standing in all courses attempted along with course average, information about the student's academic status including record of suspension and refusal of further registration, and completion of degree requirements and of subject POST(s).

Final course results are added to each student's record at the end of each session and Summer sub-session. GPAs are calculated at the end of each session. Individual courses that a student cancels within the normal time limit are not shown.

Copies of the transcript are issued at the student's request, subject to reasonable notice. In accordance with the University's policy on access to student records, the student's signature is required for the release of the record.

The University of Toronto issues only a consolidated transcript,

# Rules & Regulations

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including a student's total academic record at the University. Students may request consolidated transcripts on the Web at: [www.rosi.utoronto.ca](http://www.rosi.utoronto.ca). Requests may also be made in person or by writing to:

University of Toronto Transcript Centre  
Room 1006, Sidney Smith Hall  
100 St. George Street  
Toronto, ON M5S 3G3.

A fee of \$10.00 (subject to change), which includes GST, is charged for each transcript. Cheques and money orders should be made payable to the University of Toronto. Students must indicate at the time of the request if the purpose of the transcript is for enclosure in a self-administered application. Such transcripts are issued in specially sealed envelopes.

The University of Toronto cannot be responsible for transcripts lost or delayed in the mail. Transcripts are not issued for students who have outstanding financial obligations with the University.

## **University Policy on Official Correspondence with Students**

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The University and its divisions may use the postal mail system and/or electronic message services (e.g., electronic mail and other computer-based on-line correspondence systems) as mechanisms for delivering official correspondence to students.

Official correspondence may include, but is not limited to, matters related to students' participation in their academic programs, important information concerning University and program scheduling, fees information, and other matters concerning the administration and governance of the University.

### **Postal Addresses and Electronic Mail Accounts**

Students are responsible for maintaining and advising the University, on the University's student information system (currently ROSI), of a current and valid postal address as well as the address for a University-issued electronic mail account that meets a standard of service set by the Vice-President and Provost.

Failure to do so may result in a student missing important information and will not be considered an acceptable rationale for failing to receive official correspondence from the University.

### **University rights and responsibilities regarding official correspondence**

The University provides centrally supported technical services and the infrastructure to make electronic mail and/or on-line communications systems available to students. University correspondence delivered by electronic mail is subject to the same public information, privacy and records retention requirements and policies as are other university correspondence and student records. The University's expectations concerning use of information and communication technology are articulated in the guidelines on Appropriate Use of Information and Communication Technology (available on the web site of the Office of the Vice-President and Provost: <http://www.provost.utoronto.ca/English/Appropriate-Use-of-Information-and-Communication-Technology.html>.)

### **Students' rights and responsibilities regarding retrieval of official correspondence**

Students are expected to monitor and retrieve their mail, including electronic messaging account[s] issued to them by the University, on a frequent and consistent basis. Students have the responsibility to recognize that certain communications may be time-critical. Students have the right to forward their University-issued electronic mail account to another electronic mail service provider address but remain responsible for ensuring that all University electronic message communication sent to the official University-issued account is received and read.

## **University Grading Practices Policy**

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### **Purpose**

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The purpose of the University Grading Practices Policy is to ensure:

- that grading practices throughout the University reflect appropriate academic standards;
- that the evaluation of student performance is made in a fair and objective manner against these academic standards;
- that the academic standing of every student can be accurately assessed even when courses have been taken in different divisions of the University and evaluated according to different grade scales.

### **Application of Policy**

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The Policy applies to all individuals and committees taking part in the evaluation of student performance in degree, diploma, and certificate credit courses (hereafter referred to as courses).

### **Amendment to Policy**

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Amendments to the Policy shall be recommended to the Academic Board. Changes to the divisional regulations on grading practices shall be forwarded to the Committee on Academic Policy and Programs.

### **Distribution of Policy**

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A copy of the Grading Practices Policy as well as the description of the grade scales and the substance of divisional regulations indicated in Part II of this Policy shall be published in the Calendar of the division. Similarly a copy shall be given to all students upon initial registration and to all instructors and others, including teaching assistants, involved in the evaluation of student performance. The Policy is in three parts: Part I deals with grades, Part II outlines grading procedures to be adhered to in divisional regulations adopted as part of this Policy, and Part III is an administrative appendix that is available on the Governing Council website: [www.utoronto.ca/govcncl/pap/policies/grading.pdf](http://www.utoronto.ca/govcncl/pap/policies/grading.pdf).

### **Part I: Grades**

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#### **Meaning of Grades**

Grades are a measure of the performance of a student in individual courses. Each student shall be judged on the basis of how well he or she has command of the course materials.

# Rules & Regulations

- I.1 A grade assigned in a course is not an assessment of standing within a program of studies. To determine the requirements for credit and standing in a program of studies, the academic regulations of the division in which the program is offered should be consulted.
- I.2 Grades for each course shall be assigned with reference to the following meanings (which may be expanded in the divisional regulations under Part II): Excellent, Good, Adequate, Marginal, Inadequate.

## Grade Scales

- I.3 Once a judgment on the performance of the student has been made, the following grade scales are to be used:
  - a) the refined letter grade scale: A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F;
  - b) the numerical scale of marks, consisting of all integers from 0 - 100; and/or
  - c) for graduate divisions only, a truncated refined letter grade scale in which FZ replaces the C, D and F grades in (a) above.
  - d) the scales Honours/Pass/Fail and Credit/No Credit.

## Grades vs. Scores

- I.4 Grades should always be based on the approved grade scales. However, students may find that on any one evaluation they may receive a numerical or letter mark that reflects the score achieved on the test or essay. The cumulative scores may not be directly identified with the final grade. Grades are final only after review by the divisional review committee described below. (NOTE: A table of correspondence and a translation table are defined (under "Grading Regulations" on page 478) for each of the letter grade scales referred to in I.3(a) in order to allow the conversion, when necessary, of a grade assigned from one scale to the corresponding grade in another. It should be noted that these tables are not to be used to translate a score to a grade directly.)

## Grade Reporting

- I.5 Grades will be assigned according to the numerical scale of marks referred to in I.3 (b) above, and converted to the refined letter grade scale of I.3(a) above. The H/P/FL and CR/NCR scales of I.3(d) above may also be used. However, the grades assigned in a course must all be from the same scale.
- I.6 All non-grade designators used in reporting course results must correspond to the University-wide standard. A list of the currently approved designators and their meanings is given in the Appendix A.2
- I.7 The information in grade reports and transcripts must be communicated to the user, whether within or outside the University, in a clear and meaningful way. To that end, transcripts must include:
  - a) an enrolment history, which traces chronologically the student's entire participation at the University;
  - b) a "grade point average" based on a 4-point scale for all undergraduate divisions (Note: grade point average values will be assigned as follows A+/A = 4.0; A- = 3.7, B+ = 3.3, B = 3.0, B- = 2.7, C+ = 2.3, C = 2.0, C- = 1.7, D+ = 1.3, D = 1.0, D- = 0.7, F = 0.0),
  - c) an average grade for each course expressed using the refined letter grade scale (Note: these calculations should be restricted to courses of a specific size),

- d) both numeric mark and its letter grade equivalent, where possible, for all courses,
- e) course weight values, expressed using a uniform system of values allowing for the relative values needed by each division,
- f) transfer credits granted,
- g) academic honours, scholarships and awards sanctioned by the University,
- h) a comprehensive guide explaining all grades and symbols used on the transcript.

## Part II: Grading Procedures

### Approval of Grades

Grades shall be recommended by the instructor to the chair or division head. The grades shall then be reviewed and approved following the divisional review procedure. Grades shall not be reported or released to students as official until the divisional review procedure has been carried out. The divisional review constitutes final approval of grades except when grades are changed on appeal.

### Divisional Review Committee

- II.1 In each division, a committee chaired by the divisional head or designate, and where appropriate, an additional committee structure, with the chairs (or their designates) of departments or other academic units of divisions serving as chairs, shall:
  - a) administer the implementation of the University Grading Practices Policy at the divisional level and oversee the general consistency of grading procedures with the division;
  - b) approve and administer the University's specific regulations concerning the grade scale or scales to be used, the assignment of non-grade designators for course work, classroom procedures and approval methods of evaluation;
  - c) review, adjust and approve course grades recommended by instructors. The grades recommended for any individual student in the professional faculties may be adjusted according to his or her performance in the course or program as determined by the committee. The divisional committee has the final responsibility for assigning the official course grade.

### Classroom Procedures

- II.2 To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the practices below.
  - a) As early as possible in each course (and no later than the division's last date for course enrolment) the instructor shall make available to the class, and shall file with the division or department, the methods by which student performance shall be evaluated. This should include whether the methods of evaluation shall be essays, tests, examinations, etc., the relative weight of these methods in relation to the overall score, and the timing of each major evaluation.
  - b) After the methods of evaluation have been known, the instructor may not change them or their relative weight without the consent of at least a simple majority of the students enrolled in the course. Any changes shall be

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reported to the division or the department.

- c) Student performance in a course shall be assessed on more than one occasion. No one essay, test, examination, etc. should have a value of more than 80% of the grade. Criteria for exemption may be determined by the division.
- d) In courses that meet regularly as a class there shall be an examination (or examinations) conducted formally under divisional auspices and worth (alone or in the aggregate) at least one-third of the final grade. Criteria for exemption may be determined by the division. The relative value of each part of an examination shall be indicated to the student. In the case of a written examination, the value shall be indicated on the examination paper.
- e) Commentary on assessed term work and time for discussion of it shall be made available to students.
- f) At least one piece of term work which is a part of the evaluation of a student performance, whether essay, lab report, review, etc., shall be returned to the student prior to the last date for cancelling the course without academic penalty.
- g) Grades shall be recommended by the instructor in reference to the approved grades scales on the basis of each student's overall performance.

In formulating their own regulations divisions may add to items (a) to (g) and may adopt fuller or more specific provisions, for example in place of such terms as "a simple majority" (b), "one-third of the final grade" (d), or in particularizing the evaluation methods referred to in (a) and (b).

## Procedures in the Event of Disruptions

II.3 The following principles shall apply in the event of disruption of the academic program:

- (i) The academic integrity of academic programs must be honoured; and
- (ii) Students must be treated in a fair manner recognizing their freedom of choice to attend class or not without penalty.

### Procedures:

- a) The Vice-President and Provost, or the Academic Board, shall declare when a disruption of the academic program has occurred. The Provost shall take steps to inform the University community at large of the changes to be implemented, and will report to the Committee on Academic Policy and Programs regarding the implementation of the procedures and changes to the status of the academic programs.
- b) Individual instructors or multi-section co-ordinators responsible for courses that are disrupted shall determine, as the disruption proceeds, whether any changes to classroom procedures are needed to complete the course.
- c) Changes to the classroom procedures should, where possible, first be discussed with students prior to the class in which a vote of the students present on the proposed changes is to be taken. Changes agreed upon by consensus should be forwarded to the department or division with a report on the attendance at the class where the vote was taken.
- d) Where consensus on changes has not been arrived at, or where a vote is not feasible, the instructor, after class discussion, will provide the division head or chair of the

department in multi-departmental faculties, with his or her recommendation, along with the results of the classroom votes. The chair or division head shall then make a decision.

- e) Where classes are not able to convene, the instructor, with the prior approval of the chair in multi-departmental faculties or the division head, shall make changes deemed necessary to the classroom procedures. In the absence of the instructor such changes will be made by the divisional head and require the approval of the Provost. Where courses are to be cancelled, approval of the divisional council is required. If the divisional council cannot meet, approval of the division head, or in the absence of the division head, the approval of the Provost is required.
- f) Students must be informed of changes to classroom procedures. This may be done by circulating the changes in writing to the class, posting in the departmental and faculty offices, reporting to the divisional council, as well as listing in the campus press. Should classes resume students must be informed, at class, of any changes made during the disruption.
- g) Where a declared disruption occurs in a specific course after the last date to drop courses for the academic term or session, students who do not wish to complete the course(s) during that term or session may, prior to the last day of classes, withdraw without academic penalty. Students who cancel a course prior to the last day of classes as a result of declared disruption in that course shall receive a full refund of the course tuition fee.
- h) Where students have not attended classes that are meeting, they nonetheless remain responsible for the course work and meeting course requirements. However, where possible, reasonable extension of deadlines for the course requirements, or provision of make-up tests shall be made and reasonable alternative access to material covered should be provided.
- i) A student who considers that disruption has unreasonably affected his or her grade in a course may appeal the grade following the procedures as set out in each division. If the petition is approved, the student's original grade will be replaced by either an assessed grade or by a grade of CR/NCR, or as deemed appropriate in the particular circumstances.

## Assessment in Clinical and Field Settings

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II.4 Divisions may make reasonable exemptions to the classroom procedures described above in circumstances such as field or clinical courses where adherence to these procedures is not possible. Nevertheless, it is obligatory that the assessment of the performance of students in clinical or field settings should be fair, humane, valid, reliable and in accordance with the principles enunciated in the University Grading Practices Policy. Accordingly, where a student's performance in a clinical or field setting is to be assessed for credit, the evaluation must encompass as a minimum:

- a) a formal statement describing the evaluation process, including the criteria to be used in assessing the performance of students and the appeal mechanisms available. This statement should be available to all students before or at the beginning of the clinical or field experience;
- b) a mid-way performance evaluation with feedback to the student;

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- c) written documentation of the final assessment.
- In addition, for such clinical and field experiences, divisions must ensure that:
- d) clinical and field assessors are fully informed regarding University, divisional and course policies concerning evaluation procedures, including the specific assessment procedures to be applied in any particular field or clinical setting.

Any exception from the above would require a divisional request with explanation for approval by the Governing Council.

## **Grade Review and Approval Process**

- II.5 The following principles and procedures shall govern the grade review and approval process.
- a) The distribution of grades in any course shall not be predetermined by any system of quotas that specifies the number or percentage of grades allowable at any grade level.
  - b) However, a division may provide broad limits to instructors setting out a reasonable distribution of grades in the division or department. Such broad limits shall recognize that considerable variance in class grades is not unusual. The division may request an explanation of any grades for a course that exceed the limits and hence appear not to be based on the approved grade scales or otherwise appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is thirty students or greater. Each division shall make known in the divisional *Calendar* the existence of any such limits.
  - c) The criterion that the Divisional Review Committee shall employ in its evaluation is whether the instructor has followed the University Grading Practices Policy. The Review committee shall not normally adjust grades unless the consequences of allowing the grades to stand would be injurious to the standards of the University, or the class in general.
  - d) Membership on the Divisional Review Committee may include students but should not include members of the divisional appeals committee(s).
  - e) Where grades have been adjusted by a divisional committee, the students as well as the instructor shall be informed. On request, the students or the instructor shall be given the reason for the adjustment of grades, a description of the methodology used to adjust the grades, and a description of the divisional appeal procedure.
  - f) Where a departmental review committee changes course grades, the faculty office shall be so informed. Having done so, the faculty office shall relay this information, upon request, to the students or the instructor with a description as to the reason for the change and the methodology used.
  - g) Past statistical data, including drop-out rates, mean arithmetic average, etc., should be provided to the Divisional Review Committee as background information where available. The committee will not use this information exclusively to judge whether a specific grades distribution is anomalous. Rather, the information should provide part of the basis for an overall review of grades in a division.

- h) Where class grades have been changed, or when the Divisional Review Committee had reservations about the grades, the issue will be taken up with the instructor by the division or department head, with a view to ensuring that the Grading Practices Policy is followed in future.

## **Appeal Procedure**

- II.6 Every division shall establish divisional appeal procedures. Students may appeal grades according to the procedures established for that purpose in the division. The appeal may be made whether marks have been altered by the review process or not. These procedures shall be outlined in the divisional *Calendar*, and available upon request at the faculty or registrar's office.

## **Student Access to Examination Papers**

- II.7
- a) All divisions should provide access to copies of the previous year's final examination papers and other years' papers where feasible. Exemptions may be granted by an appropriate committee of the division or department.
  - b) All divisions should provide students with the opportunity within a reasonable time to review their examination paper where feasible. A recovery fee should be set to cover administrative costs including photocopying.
  - c) All divisions should provide, in addition to the customary re-reading of papers and the re-checking of marks, the opportunity for students to petition for the re-reading of their examination where feasible. A cost recovery fee should be set and returned where appropriate.

## **Conflict of Interest**

- II.8
- Where the instructor or a student has a conflict of interest, or is in a situation where a fair and objective assessment may not be possible, this should be disclosed to the chair or division head who shall take steps to ensure fairness and objectivity.

## **Discipline: Code of Behaviour on Academic Matters**

The Governing Council of the University of Toronto has approved a Code of Behaviour, which sets out clearly the standard of conduct in academic matters expected of members of the University community. The Code is enforced by the Provost and the Disciplinary Tribunal. Below are extracts from the Code, covering offences, sanctions and procedures as they apply to students. The full text is available from the Office of the Dean, and the Offices of College Registrars.

The University and its members have a responsibility to ensure that a climate that might encourage, or conditions that might enable, cheating, misrepresentation or unfairness not be tolerated. To this end all must acknowledge that seeking credit or other advantages by fraud or misrepresentation, or seeking to disadvantage others by disruptive behaviour is unacceptable, as is any dishonesty or unfairness in dealing with the work or record of a student.

Wherever in the Code an offence is described as depending on "knowing", the offence shall likewise be deemed to have

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committed if the person ought reasonably to have known.

## **B.I. Offences**

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1. It shall be an offence for a student knowingly:
  - a) to forge or in any other way alter or falsify any document or evidence required for admission to the University, or to utter, circulate or make use of any such forged, altered or falsified document, whether the record be in print or electronic form;
  - b) to use or possess an unauthorized aid or aids or obtain unauthorized assistance in any academic examination or term test or in connection with any other form of academic work;
  - c) to personate another person, or to have another person personate, at any academic examination or term test or in connection with any other form of academic work;
  - d) to represent as one's own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e. to commit plagiarism;
  - e) to submit, without the knowledge and approval of the instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or program of study in the University or elsewhere;
  - f) to submit for credit any academic work containing a purported statement of fact or reference to a source which has been concocted.
2. It shall be an offence for a faculty member knowingly:
  - a) to approve any of the previously described offences;
  - b) to evaluate an application for admission or transfer to a course or program of study by other than duly established and published criteria;
  - c) to evaluate academic work by a student by reference to any criterion that does not relate to its merit, to the time within which it is to be submitted or to the manner in which it is to be performed.
3. It shall be an offence for a faculty member and student alike knowingly:
  - a) to forge or in any other way alter or falsify any academic record, or to utter, circulate or make use of any such forged, altered or falsified record, whether the record be in print or electronic form.
  - b) to engage in any form of cheating, academic dishonesty or misconduct, fraud or misrepresentation not herein otherwise described, in order to obtain academic credit or other academic advantage of any kind.
4. A graduate of the University may be charged with any of the above offences committed intentionally while he or she was an active student, when, in the opinion of the Provost, the offence, if detected, would have resulted in a sanction sufficiently severe that the degree would not have been granted at the time it was.

## **B.II. Parties to Offences**

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1.
  - a) Every member is a party to an offence under this Code who knowingly:
    - i) actually commits it;
    - ii) does or omits to do anything for the purpose of aiding or assisting another member to commit the

offence;

- (iii) does or omits to do anything for the purpose of aiding or assisting any other person who, if that person were a member, would have committed the offence;
    - (iv) abets, counsels, procures or conspires with another member to commit or be a party to an offence; or
    - (v) abets, counsels, procures or conspires with any other person who, if that person were a member, would have committed or have been a part to the offence.
  - b) Every party to an offence under this Code is liable upon admission of the commission thereof, or upon conviction, as the case may be, to the sanctions applicable to that offence.
2. Every member who, having an intent to commit an offence under this Code, does or omits to do anything for the purpose of carrying out that intention (other than mere preparation to commit the offence) is guilty of an attempt to commit the offence and liable upon conviction to the same sanctions as if he or she had committed the offence.
3. When a group is found guilty of an offence under this Code, every officer, director or agent of the group, being a member of the University, who directed, authorized or participated in the commission of the offence is a party to and guilty of the offence and is liable upon conviction to the sanctions provided for the offence.

## **C.I.(a) Divisional Procedures**

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NOTE: Where a student commits an offence, the faculty in which the student is registered has responsibility over the student in the matter. In the case of Scarborough and Erindale colleges, the college is deemed to be the faculty.

1. No hearing within the meaning of Section 2 of the Statutory Powers of Procedures Act is required for the purposes of, or in connection with, any of the discussions, meetings and determinations referred to in Section C.I.(a), and such discussions, meetings and determinations are not proceedings of the Tribunal.
2. Where an instructor has reasonable grounds to believe that an academic offence has been committed by a student, the instructor shall so inform the student immediately after learning of the act or conduct complained of, giving reasons, and invite the student to discuss the matter. Nothing the student says in such a discussion may be used or receivable in evidence against the student.
3. If after such discussion, the instructor is satisfied that no academic offence has been committed, he or she shall so inform the student and no further action shall be taken in the matter by the instructor, unless fresh evidence comes to the attention of the instructor, in which case he or she may again proceed in accordance with subsection 2.
4. If after such discussion, the instructor believes that an academic offence has been committed by the student, or if the student fails or neglects to respond to the invitation for discussion, the instructor shall make a report of the matter to the department chair or through the department chair to the dean. (See also Section C.I.(B) I.)
5. When the dean or the department chair, as the case may be, has been so informed, he or she shall notify the student in writing accordingly, provide him or her with a copy of the Code, and subsequently afford the student an opportunity for discussion of the matter. In the case of the dean being informed, the chair of the department and the



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instructor shall be invited by the dean to be present at the meeting with the student. The dean shall conduct the interview.

6. Before proceeding with the meeting, the dean shall inform the student that he or she is entitled to seek advice, or to be accompanied by counsel at the meeting, before making, and is not obliged to make, any statement or admission, but shall warn that if he or she makes any statement or admission in the meeting, it may be used or receivable in evidence against the student in the hearing of any charge with respect to the offence or alleged offence in question. The dean shall also advise the student, without further comment or discussion, of the sanctions that may be imposed under Section C.I.(B), and that the dean is not obliged to impose a sanction but may instead request that the Provost lay a charge against the student. Where such advice and warning have been given, the statements and admissions, if any, made in such a meeting may be used or received in evidence against the student in any such hearing.
7. If the dean, on the advice of the department chair and the instructor, or if the department chair, on the advice of the instructor, subsequently decides that no academic offence has been committed and that no further action in the matter is required, the student shall be so informed in writing and the student's work shall be accepted for normal evaluation or, if the student was prevented from withdrawing from the course by the withdrawal date, he or she shall be allowed to do so. Thereafter, the matter shall not be introduced into evidence at a Tribunal hearing for another offence.
8. If the student admits the alleged offence, the dean or the department chair may either impose the sanction that he or she considers appropriate under Section C.I.(B) or refer the matter to the dean or Provost, as the case may be, and in either event shall inform the student in writing accordingly. No further action in the matter shall be taken by the instructor, the department chair or the dean if the dean imposes a sanction.
9. If the student is dissatisfied with a sanction imposed by the department chair or the dean, as the case may be, the student may refer the matter to the dean or Provost, as the case may be, for consideration.
10. If the student does not admit the alleged offence, the dean may, after consultation with the instructor and the department chair, requires that the Provost lay a charge against the student. If the Provost agrees to lay a charge, the case shall then proceed to the Trial Division of the Tribunal.
11. Normally, decanal procedures will not be examined in a hearing before the Tribunal. A failure to carry out the procedures referred to in this Section, or any defect or irregularity in such procedures, shall not invalidate any subsequent proceedings of or before the Tribunal, unless the chair of the hearing considers that such failure, defect or irregularity resulted in a substantial wrong, detriment or prejudice to the accused. The chair will determine at the opening of the hearing whether there is going to be any objection to defect, failure or irregularity.
12. No degree, diploma or certificate of the University shall be conferred or awarded, nor shall a student be allowed to withdraw from a course from the time of the alleged offence until the final disposition of the accusation. However, a student shall be permitted to use University

facilities while a decision is pending, unless there are valid reasons for the dean to bar him or her from a facility. When or at any time after an accusation has been reported to the dean, he or she may cause a notation to be recorded on the student's academic record and transcript in a course and/or the student's academic status is under review. A student upon whom a sanction has been imposed by the dean or the department chair under Section C.I.(B) or who has been convicted by the Tribunal shall not be allowed to withdraw from a course so as to avoid the sanction imposed.

13. A record of cases disposed of under Section C.I.(A) and of the sanctions imposed shall be kept in the academic unit concerned and may be referred to by the dean in connection with a decision to prosecute, or by the prosecution in making representations as to the sanction or sanctions to be imposed by the Tribunal, for any subsequent offence committed by the student. Information on such cases shall be available to other academic units upon request and such cases shall be reported by the dean to the Secretary of the Tribunal for use in the Provost's annual report to the Academic Board. The dean may contact the Secretary of the Tribunal for advice or for information on cases disposed of under Section C.II. hereof.
14. Where a proctor or invigilator, who is not a faculty member, has reason to believe that an academic offence has been committed by a student at an examination or test, the proctor or invigilator shall so inform the student's dean or department chair, as the case may be, who shall proceed as if he or she were an instructor, by analogy to the other provisions of this section.
15. In the case of alleged offences not covered by the above and not involving the submission of academic work, such as those concerning forgery or uttering, library or computer material or library or computer resources, and in cases involving cancellation, recall or suspension of a degree, diploma or certificate, the procedure shall be regulated by analogy to the other procedures of this section.

### **C.I.(b) Divisional Sanctions**

1. In an assignment worth 10 percent or less of the final grade, the department chair may handle the matter if:
  - a) the student admits guilt; and
  - b) the assignment of a penalty is limited to at most a mark of zero for the piece of work.If the student does not admit guilt, or if the department chair chooses, the matter shall be brought before the dean.
2. One or more of the following sanctions may be imposed by the dean where a student admits to the commission of an offence:
  - a) an oral and/or written reprimand;
  - b) an oral and/or written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
  - c) assignment of a grade of zero or a failure for the piece of academic work in respect of which the offence was committed;

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- d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
  - e) denial of privileges to use any facility of the University, including library and computer facilities;
  - f) a monetary fine to cover the costs of replacing damaged property or misused supplies in respect of which the offence was committed;
  - g) assignment of a grade of zero or a failure for the course in respect of which the offence was committed;
  - h) suspension from attendance in a course or courses, a program, an academic division or unit, or the University for a period of not more than twelve months. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed.
3. The dean shall have the power to record any sanction imposed on the student's academic record and transcript for such length of time as he or she considers appropriate. However, the sanctions of suspension or a notation specifying academic misconduct as the reason for a grade of zero for a course shall normally be recorded for a period of five years.
4. The Provost shall, from time to time, indicate appropriate sanctions for certain offences. These guidelines shall be sent for information to the Academic Board and attached to the Code as Appendix "C".

## **Conduct: Code of Student Conduct**

### **Summary of Code of Student Conduct**

Non-academic offences are defined in the University's Code of Student Conduct (2002), the full text of which may be obtained from the Office of the Assistant Vice-President, Student Affairs. A summary of the Code is provided below.

Extracts from the Code are printed here in ordinary type, and additional comments etc., are in italics. References in square brackets are to original section numbering in the Code.

### **[B.] Offences**

The following offences constitute conduct that shall be deemed to be offences under this Code, when committed by a student of the University of Toronto, provided that such conduct:

- (i) has not been dealt with as failure to meet standards of professional conduct as required by a college, faculty or school; and
- (ii) is not specifically assigned to the jurisdiction of the University Tribunal, as in the case of offences described in the Code of Behaviour on Academic Matters, or to another disciplinary body within the University of Toronto, as in the case of sexual harassment as described in the Policy and Procedures: Sexual Harassment; or to a divisional disciplinary body, such as a residence council or a recreational athletics disciplinary body; or is covered under these policies but which is deemed by the head of the division to be more appropriately handled by the Code of Student Conduct; and

- (iii) except as otherwise provided herein, occurs on premises of the University of Toronto or elsewhere in the course of activities sponsored by the University of Toronto or by any of its divisions; and
- (iv) has not been dealt with under provisions for the discipline of students with respect to University offices and services whose procedures apply to students in several academic divisions, such as University residences, libraries or athletic and recreational facilities.

### **I. Offences Against Persons**

- a) No person shall assault another person sexually or threaten any other person with sexual assault.
- b) No person shall otherwise assault another person, threaten any other person with bodily harm, or knowingly cause any other person to fear bodily harm.
- c) No person shall knowingly create a condition that unnecessarily endangers the health or safety of other persons.
- d) No person shall threaten any other person with damage to such person's property, or knowingly cause any other person to fear damage to her or his property.
- e) No person shall engage in a course of vexatious conduct that is directed at one or more specific individuals, and that is based on the race, ancestry, place of origin, colour, ethnic origin, citizenship, sex, sexual orientation, creed, age, marital status, family status, handicap, receipt of public assistance or record of offences of that individual or those individuals, and that is known to be unwelcome, and that exceeds the bounds of freedom of expression or academic freedom as these are understood in University policies and accepted practices, including but not restricted to, those explicitly adopted.

(Note: terms in this section are to be understood as they are defined or used in the Ontario Human Rights Code. Vexatious conduct that is based on sex or sexual orientation is considered an offence under the University's Policy and Procedures: Sexual Harassment. If the Sexual Harassment Officer believes, after consultation with relevant parties, that a complaint based on sex or sexual orientation would be better handled under the Code of Student Conduct, the Officer may refer the matter to the appropriate head of division.)

- f) (i) No person shall, by engaging in the conduct described in subsection (ii) below, whether on the premises of the University or away from the premises of the University, cause another person or persons to fear for their safety or the safety of another person known to them while on the premises of the University of Toronto or in the course of activities sponsored by the University of Toronto or by any of its divisions, or cause another person or persons to be impeded in exercising the freedom to participate reasonably in the programs of the University and in activities in or on the University premises, knowing that their conduct will cause such fear, or recklessly as to whether their conduct causes such fear.
  - (ii) The conduct mentioned in subsection (i) consists of:
    - a) repeatedly following from place to place the other person or anyone known to them;
    - b) repeatedly and persistently communicating with, either directly or indirectly, the other person or anyone known to them;

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- c) besetting or repeatedly watching the dwelling-house, or place where the other person, or anyone known to them, resides, works, carries on business or happens to be; or
- d) engaging in threatening conduct directed at the other person or any member of the family, friends or colleagues of the other person.

## 2. Disruption

No person shall cause by action, threat or otherwise, a disturbance that the member knows obstructs any activity organized by the University of Toronto or by any of its divisions, or the right of another member or members to carry on their legitimate activities, to speak or to associate with others.

For example, peaceful picketing or other activity outside a class or meeting that does not substantially interfere with the communication inside, or impede access to the meeting, is an acceptable expression of dissent. And silent or symbolic protest is not to be considered disruption under this Code. But noise that obstructs the conduct of a meeting or forcible blocking of access to an activity constitutes disruption.

## 3. Offences Involving Property

- a) No person shall knowingly take, destroy or damage premises of the University of Toronto.
- b) No person shall knowingly take, destroy or damage any physical property that is not her or his own.
- c) No person shall knowingly destroy or damage information or intellectual property belonging to the University of Toronto or to any of its members.
- d) No person, in any manner whatsoever, shall knowingly deface the inside or outside of any building of the University of Toronto.
- e) No person, knowing the effects or property to have been appropriated without authorization, shall possess effects or property of the University of Toronto.
- f) No person, knowing the effects or property to have been appropriated without authorization, shall possess any property that is not her or his own.
- g) No person shall knowingly create a condition that unnecessarily endangers or threatens destruction of the property of the University of Toronto or of any of its members.

## 4. Unauthorized Entry or Presence

No person shall, contrary to the expressed instruction of a person or persons authorized to give such instruction, or with intent to damage or destroy the premises of the University of Toronto or damage, destroy or steal any property on the premises of the University of Toronto that is not her or his own, or without just cause knowingly enter or remain in or on any such premises.

## 5. Unauthorized Use of University Facilities, Equipment or Services

- a) No person shall knowingly use any facility, equipment or service of the University of Toronto contrary to the expressed instruction of a person or persons authorized to give such instruction, or without just cause.

- b) No person shall knowingly gain access to or use any University computing or internal or external communications facility to which legitimate authorization has not been granted. No person shall use any such facility for any commercial, disruptive or unauthorized purpose.
- c) No person shall knowingly mutilate, misplace, misfile, or render inoperable any stored information such as books, film, data files or programs from a library, computer or other such information storage, processing or retrieval system.

## 6. False Charges

No person shall knowingly or maliciously bring a false charge against any member of the University of Toronto under this Code.

## 7. Aiding in the Commission of an Offence

No person shall counsel, procure, conspire with or aid a person in the commission of an offence defined in this Code.

## 8. Refusal to Comply with Sanctions

No person found to have committed an offence under this Code shall refuse to comply with a sanction or sanctions imposed under the procedures of this Code.

## 9. Unauthorized Possession or Use of Firearms or Ammunition

No person other than a peace officer or a member of the Canadian Forces acting in the course of duty shall possess or use any firearm or ammunition on the premises of the University of Toronto without the permission of the officer of the University having authority to grant such permission.

## [C.] Procedures

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### I. General

- a) The University shall establish a centrally appointed pool of trained Investigating and Hearing Officers, who shall be available to the divisions, at the discretion of the head of the division, if that is considered appropriate or preferable for any reason.
- b) Each division shall appoint an Investigating Officer and a Hearing Officer, who may be a student, staff or faculty member from that division.
- c) Whether the incident is investigated locally or centrally, every effort shall be made to conclude the case through to delivery of a final decision within the University within one year from the alleged incident or misconduct.
- d) Pursuant to the provisions of Section D., interim conditions may be imposed by the head of the division.
- e) For purposes of confidential and central record keeping, a one-page summary of the outcome of all investigations, whether or not they have proceeded to a Hearing, shall be copied to the Judicial Affairs Officer in the Office of Governing Council.
- f) Whenever possible and appropriate, informal resolution and mediation shall be used to resolve issues of individual behaviour before resort is made to formal disciplinary procedures.

# Rules & Regulations

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## 2. Specific

- a) An Investigating Officer shall be appointed for a term of up to three years by the principal, dean or director (hereinafter called "head") of each faculty, college or school in which students are registered (hereinafter called "division"), after consultation with the elected student leader or leaders of the division, to investigate complaints made against student members of that division. Investigating Officers shall hold office until their successors are appointed.
- b) A Hearing Officer shall be appointed for a term of up to three years by the council of each division to decide on complaints under this Code made against student members of that division. Hearing Officers shall hold office until their successors are appointed.
- c) If the Investigating Officer is unable to conduct an investigation, or the Hearing Officer is unable to conduct a hearing, or where the head of the division believes on reasonable grounds that the appointed officer is inappropriate to conduct the particular investigation or chair a particular hearing, then the head of the division shall seek an appointment from the central pool for that particular case. If the head of the division intends to request either suspension from registration or expulsion from the University as a sanction in a particular case, or if the case appears to the head of the division to require a Hearing Officer with legal qualifications, then the Senior Chair of the University Tribunal may, on the application of the head of the division, appoint a legally qualified person as Hearing Officer for that particular case.
- d) Where the head of the division has reason to believe that a non-academic offence as defined in this Code may have been committed by a student member or members of the division, the Investigating Officer will conduct an investigation into the case. After having completed the investigation, the Investigating Officer shall report on the investigation to the head of the division. If the head of the division concludes, on the basis of this report, that the student or students may have committed an offence under the Code of Student Conduct, the head of the division shall have the discretion to request that a hearing take place to determine whether the student or students have committed the offence alleged.
- e) The hearing will be chaired by the Hearing Officer. The case will be presented by the Investigating Officer, who may be assisted and represented by legal counsel. If the right to a hearing is waived, or after a hearing, the Hearing Officer will rule on whether the student or students have committed the offence alleged and may impose one or more sanctions as listed below. The accused student or students may be assisted and represented by another person, who may be legal counsel.
- f) Appeals against decisions of bodies acting under authority from the council of a division to hear cases arising out of residence codes of behaviour may be made to the Hearing Officer of the division, where provision therefor has been made by the council of that division.
- g) Appeals against the decision of the Hearing Officer may be made to the Discipline Appeals Board of the Governing Council.
- h) Where the head of a division has reason to believe that a non-academic offence may have been committed by a group of students including students from that division and from

another division or divisions, the head may consult with the head of the other division or divisions involved and may then agree that some or all of the cases will be investigated jointly by the Investigating Officers of the divisions of the students involved and that some or all of the cases will be heard together by the Hearing Officer of one of the divisions agreed upon by the head and presented by one of the Investigating Officers agreed upon by the heads.

## [D.] interim conditions and measures

### 1. Interim Conditions: Ongoing Personal Safety

In those cases where the allegations of behaviour are serious and, if proven, could constitute a significant personal safety threat to other students or members of the University community, the head of the division is authorized to impose interim conditions that balance the need of complainants for safety with the requirement of fairness to the respondent student. The interim conditions are in no way to be construed as indicative of guilt, and shall remain in place until the charges are disposed of under the Code's procedures.

### 2. Interim Measures: Urgent Situations

In some circumstances, such as those involving serious threats or violent behaviour, it may be necessary to remove a student from the University. Where the head of the division has requested an investigation by the Investigating Officer and the investigation is pending, the Vice-President & Provost (or delegate) may, on the advice of the head of the division, suspend the student or students temporarily for up to three working days if, in the opinion of the Vice-President & Provost (or delegate), there is reasonable apprehension that the safety of others is endangered, damage to University property is likely to occur, or the continued presence of the student(s) would be disruptive to the legitimate operations of the University. The student(s) shall be informed immediately in writing of the reasons for the suspension and shall be afforded the opportunity to respond. Any such temporary suspension may be reviewed by the Vice-President & Provost (or delegate) within the three-day temporary suspension period, following a preliminary investigation, and either revoked or continued. If the suspension is continued, the student(s) may appeal to the Senior Chair (or delegate), or the Associate Chair (or delegate) of the University Tribunal, who shall hear and decide on the appeal within five days.

## [E.] Sanctions

The following sanctions or combinations of them may be imposed upon students found to have committed an offence under this Code. In addition, students found to have committed an offence may be placed on conduct probation for a period not to exceed one year, with the provision that one or more of the following sanctions will be applied if the conduct probation is violated.

1. Formal written reprimand.
2. Order for restitution, rectification or the payment of damages.
3. A fine or bond for good behaviour not to exceed \$500.
4. Requirement of public service work not to exceed 25 hours.
5. Denial of access to specified services, activities or facilities of the University for a period of up to one year.

## **Rules & Regulations**

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The following two sanctions, which would directly affect a student's registration in a program, may be imposed only where it has been determined that the offence committed is of such a serious nature that the student's continued registration threatens the academic function of the University of Toronto or any of its divisions or the ability of other students to continue their programs of study. Where the sanction of suspension and/or expulsion has been imposed on a student, the Vice-President & Provost (or delegate) shall have the power to record that sanction on the student's academic record and transcript for such length of time as he or she considers appropriate.

A sanction of suspension shall be recorded on the student's academic record and transcript up to five years. The following wording shall be used: "Suspended from the University of Toronto for reasons of non-academic misconduct for a period of [length of suspension], [date]."

A sanction of expulsion shall be permanently recorded on a student's academic record and transcript. The following wording shall be used: "Expelled from the University of Toronto for reasons of non-academic misconduct, [date]."

6. Suspension from registration in any course or program of a division or divisions for a period of up to one year.
7. Recommendation of expulsion from the University.

## About the University, the Faculty and the Colleges

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**FACULTY *of* ARTS & SCIENCE**  
**UNIVERSITY *of* TORONTO**

# About the University, the Faculty and the Colleges

## **Brief History of the University of Toronto and the Faculty of Arts & Science**

Following are significant dates for the University and the Faculty. For a description of their governing structures, and details of the Colleges in the Faculty, please see the following pages.

- 1827 Royal Charter granted to establish King's College at York (Toronto), the state university of the Province of Upper Canada.
- 1836 Upper Canada Academy founded at Cobourg, Ontario. It became Victoria College in 1841.
- 1843 Official opening of King's College, located in former Parliament Buildings of the Province of Upper Canada.  
First degrees granted in 1844.
- 1849 King's College became University of Toronto; connection with the Church of England terminated.
- 1851 University of Trinity College established by Church of England.
- 1852 St. Michael's College established by the Basilian Order.
- 1853 University College established, assuming responsibility for all teaching in Arts in the University; the University became an examining and degree-granting body.
- 1856 Construction of present University College building started. Completed in 1859.
- 1881 St. Michael's College affiliated with the University. Full federation in 1910.
- 1887 Instruction begun in fields other than arts and the sciences. University College became purely an Arts College.
- 1890 East section of University College building, including University Library, gutted by fire. It was immediately reconstructed.
- 1892 Victoria College moved from Cobourg and federated with the University of Toronto.
- 1892 University Library opened; enlarged in 1909 and in 1954. (Now Sigmund Samuel Library)
- 1904 Trinity College federated with the University of Toronto.
- 1905 Part-time courses leading to the B.A. degree established.
- 1906 University of Toronto Act laid foundation for constitution of the University.
- 1920 Degree of Bachelor of Commerce established.
- 1925 Trinity College moved to present buildings from old Queen Street site.
- 1931 Ontario Upper School (Grade XIII) standing required for admission.
- 1960 Name of Faculty of Arts changed to "Faculty of Arts and Science."
- 1961 Degree of Bachelor of Science established.
- 1962 New College established.
- 1964 Innis College established.
- 1965 Scarborough College established.
- 1967 Erindale College established.

- 1971 University of Toronto Act 1971 established current governance of the University by a Governing Council.  
Scarborough College became separate Arts and Science division in the University.
- 1973 John P. Robarts Research Library opened.
- 1974 Woodsworth College established.
- 2003 University of Toronto Mississauga became separate Arts and Science division in the University.

## **Officers of the University of Toronto**

A list of officials of the University of Toronto can be found at: <http://www.utoronto.ca/govcncl/tgc/3.01.07.pdf>.

## **Governing Council of the University**

The overall governance of the University rests with the Governing Council which directs university policies. The Governing Council is composed of the Chancellor and the President who are ex-officio members; 2 members appointed by the President, 16 members appointed by the Lieutenant-Governor-in-Council; 12 members elected by the teaching staff from among the teaching staff; 8 members, 4 of whom are elected by and from among the full-time undergraduate students, and 2 of whom are elected by and from among the graduate students, and 2 of whom are elected by and from among the part-time undergraduate students; 2 members elected by the administrative staff from among the administrative staff; and 8 members who are not students or members of the teaching or administrative staff elected by the alumni from among the alumni.

## **Officers of the Faculty of Arts and Science**

### **Dean**

Pekka Sinervo

### **Vice-Dean (Graduate Education & Research)**

Meric Gertler

### **Vice-Dean (Undergraduate Education & Teaching)**

Susan Howson

### **Vice-Dean (Academic)**

Anne Lancashire

### **Assistant Dean and Director, Planning & Information Technology**

Monica Contreras

### **Assistant Dean and Executive Director of Advancement**

Nadina Jamison

### **Assistant Dean/Faculty Registrar and Secretary**

Glenn Loney

### **Assistant Dean and Director of Communications**

Kim Luke

# **About the University, the Faculty and the Colleges**

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## **Assistant Dean, Human Resources**

Carol Robb

## **Assistant Dean and Director, Office of the Dean and Executive Assistant to the Dean**

Vera Melnyk

## **Assistant Dean and Director of Finance**

Isaak Siboni

## **Governing Structure of the Faculty**

### **The Arts and Science Council**

The Arts and Science Council is the governing body in the Faculty of Arts and 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 eight times per year. It approves policy for the Faculty in the areas of admissions, curriculum development, evaluation and academic standing, among others, and determines the Faculty's 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 a number of Standing Committees charged with specific responsibilities to formulate policy and to apply it in specific cases. Those committees are: Undergraduate Curriculum Committees, Committee on Standing (petitions), Academic Appeals Board, and the Committee on Admissions. Approval of graduate curriculum in the Faculty is delegated to a Three Campus Curriculum Committee and reported to Council for information only.

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 web site at <http://www.artsci.utoronto.ca/main/facultygovernance>.

### **Elections to Council and its Committees**

Elections to fill the positions on the Arts and 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.

Notification of the nomination and election dates, as well as nomination forms, will be available on the Faculty's Governance web site and from the Office of the Faculty Registrar. Students will be notified by email sent to their UTORmail account.



# About the University, the Faculty and the Colleges

## The Colleges

### Innis College

**Principal**

J. Paterson, Ph D, FRSC

**Vice-Principal**

R. Riendeau, MA

**Assistant Principal and Registrar**

D. Boere, MA

**Associate Registrar—Academic**

C. Li Tang, BA

**Associate Registrar—Administrative**

T. MacKay, MA

**Associate Registrar—Recruitment and Transition**

M. Halliop, MA

**Dean of Residence**

G. Spencer

**Chief Administrative Officer**

D. Graham, MBA, CMA

**Alumni and Community Relations Officer**

E. Boldt, BFA

Innis College offers its 1,600 students high academic standards, a dedicated faculty and staff, and a vibrant undergraduate community within the University of Toronto. Innis contributes four interdisciplinary programs to the Faculty of Arts and Science, listed under “Innis College” in the calendar: Cinema Studies; Urban Studies; and Writing, Rhetoric and Critical Analysis. College academic services include the library, the writing centre, and the math/stats centre and are designed to ease the transition to university and support Innis students throughout their university careers.

Founded in 1964 and named in honour of the late Harold Innis, political economist and pioneer in communication studies, Innis College is housed in a unique three-story building that blends old and new styles by incorporating a substantial Victorian home into a functional modern structure. At the core is the Town Hall, a forum-style auditorium. Classrooms and offices for the 25 professors associated with the College and its programs occupy the second and third floors. A library, a café with an outdoor patio, a rooftop garden, and study, lounge and student union space complete the facilities. Across the street, the Innis Residence is a modern apartment-style complex featuring 327 single rooms in four- or five-bedroom suites. The residence houses a diverse community of Innis students and students from professional faculties.

Innis is the only undergraduate college at U of T that ensures equal representation of faculty and staff and students in its decision-making process. With its parity governance structure, innovative academic programming, independent community living, civic outreach, and informed activism, Innis College has created a community in which students can flourish academically and socially.

### New College

**Principal**

R. Halpern, Ph D

**Vice-Principal**

J. Larkin, Ph D

**Assistant Principal and Registrar**

S.J. Walker, MA

**Associate Registrar (Administrative)**

D.M. Chang, BA

**Associate Registrar (Student Services)**

P.W. Russell, B Ed, MA

**Assistant Registrar**

M. Cheung, BSc

**Dean of Students**

A. Yeoman, MA, Ph D

**Director, Business Services**

R. Vander Kraats, MASc, MBA, P Eng

**Director, Writing Centre**

D. Knott, MA, MTS

**Alumni Development Officer**

B.A. Registe, BA

**Senior Development Officer**

K. Mehta, BEd, MA

**Librarian**

J. Guillaume, BA, MS

New College, established in 1962, is open to students of all Faculties and Schools in the University. Approximately 4,300 of its students are in the Faculty of Arts and Science, and 400 in other divisions. Members of the College, whether in humanities, social science, science or professional programs, may broaden their university experience by meeting others from different fields and subject areas.

Arts and Science students have the full range of the Faculty curriculum open to them. The College takes part in their instruction through University courses taught by cross-appointed staff; and also through interdisciplinary courses (listed with the prefix “NEW” in the *Calendar*) designed to interest students in all Faculties. Individual tutoring is offered in Mathematics and Statistics, and the Writing Centre gives help with written assignments and reports. The College Registrar’s Office provides academic, financial, and personal counselling.

The College’s three modern, conveniently-located buildings provide academic, library, computing, dining and social facilities for all members, and also house the College residences. This creates an atmosphere of community, promoting contacts among students and staff and encouraging non-residents to become involved in college life. The residences accommodate approximately 860 students and welcome applicants from the Toronto area as well as from out- of-town. Residence application is made through the University Office of Admissions and Awards; further information about residence may be

## About the University, the Faculty and the Colleges

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obtained from the Dean of Students, New College. For further information about the College, please contact the Registrar, New College, 300 Huron Street, Toronto, Ontario, M5S 3J6.

E-mail: [newcollege.registrar@utoronto.ca](mailto:newcollege.registrar@utoronto.ca)  
Website: [www.newcollege.utoronto.ca](http://www.newcollege.utoronto.ca)

### St. Michael's College

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#### Chancellor

His Eminence Aloysius Cardinal Ambrozic, Th D

#### President & Vice-Chancellor

R.M.H. Alway, O.C., O.Ont, MA, Phil M, D. Litt. S

#### Principal

M. G. McGowan, BA, MA, Ph D

#### Registrar

D. Chevrier, BA

#### Assistant Registrar

G. George, BA

#### Associate Registrar

M. Memari, BA

#### Associate Registrar, Admissions & Recruitment

A. McGee, BA

#### Assistant Registrar, Scholarship, Awards & Financial Aid

P. Maskwa

#### Dean of Students

D. Rendle, BA MIR

#### Dean of Women (Loretto College)

A. Convertini, BA, B Ed, M Ed

#### Programs Administrator

M. O'Connor, Ph B, STB, STL. D Phil

#### Bursar

P. Venton BA, MA

#### Librarian

J.B. Bengtson, BA, MA, M Phil

St. Michael's College was founded in 1852 and is situated on the historic east side of campus in the heart of Toronto. St. Michael's provides an oasis within the University of Toronto and the city itself. St. Michael's is located just minutes from public transit, libraries, Bloor & Yonge Street shopping, museums and theatres. St. Michael's is rich in tradition and has some of the most spectacular architecture on the University of Toronto campus.

Building on its distinguished tradition of academic excellence, the College is committed to enhancing and enriching the academic and personal growth of all of its students. There are approximately 4000 full-time and 500 part-time students registered in a variety of programs leading to a Bachelor of Arts, Bachelor of Science or Bachelor of Commerce degree.

St. Michael's College is rooted in an intellectual Catholic tradition. At the same time, it welcomes students, staff and faculty from every faith and background. The College actively seeks to build a community in which cultural and other differences are appreciated and celebrated.

St. Michael's students have access to all of the facilities located at the University of Toronto; however, the facilities and programs within St. Michael's College are second to none. Facilities such as the John M. Kelly Library with its 400,000 volumes and over 1000 periodicals, the student centre, Chaplaincy program, the various clubs and sports, Mathematics Aid and Writing Centre, Debating Union and Theatre groups are just a few examples. Programs offered at St. Michael's College are Book and Media Studies, Christianity and Culture, Mediaeval Studies and Celtic Studies. In 2008, and in partnership with the Ontario Institute for Studies in Education (OISE/UT), St. Michael's College will begin admitting second-year students into a Concurrent Teacher Education Program (CTEP) which will train teachers of Religious Education for the Catholic high schools in Ontario. This program will combine a Bachelor of Arts degree, built around a specially-designed major in Christianity and Culture, with a Bachelor of Education degree. The program will be completed over five years.

Residence accommodations are available for both men and women. Applicants interested in visiting the residences should contact the Dean of Students, St. Michael's College Residence at [smc.residence@utoronto.ca](mailto:smc.residence@utoronto.ca) OR Dean of Women, Loretto College at [loretto.college@utoronto.ca](mailto:loretto.college@utoronto.ca).

All prospective students are encouraged to see the Associate Registrar for information, counselling and a visit. You may contact the office at [stmichaels.registrar@utoronto.ca](mailto:stmichaels.registrar@utoronto.ca). The Registrar's office is in Room 207, Alumni Hall, 121 St. Joseph Street. College mailing address is 81 St. Mary Street, Toronto, ON M5S 1J4.

Telephone: 416-926-7117.  
[stmichaels.registrar@utoronto.ca](mailto:stmichaels.registrar@utoronto.ca)  
[www.utoronto.ca/stmikes](http://www.utoronto.ca/stmikes)

### Trinity College

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#### Chancellor

TBA

#### Provost and Vice-Chancellor

A. Orchard, BA, Ph D

#### Vice-Provost and Dean of Arts

D.P.H. Allen, MA, B. Phil, D. Phil

#### Registrar and Director of Student Services

B.W. Bowden, MA, Ph D

#### Associate Registrar

B. Ferguson, MA, Ph D

#### Assistant Registrar

N. De Melo, BA

#### Dean of Students

K. Castle, BA

#### Bursar

G.B. Seaborn, BA, MBA

#### Librarian

L.W. Corman, MA, MLS

Trinity College opened its doors as a university on Queen St. East in 1852, graduating students in Arts, Music, Medicine and Divinity; in 1904 it federated with the University of Toronto,

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## About the University, the Faculty and the Colleges

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building a near-replica of its original building when it opened on this campus. The College enrolls approximately 1,700 students in Arts, Science, and Commerce. It has established interdisciplinary programs in Ethics, Society, and Law; Immunology; and International Relations. The College maintains particular library strengths in these areas as well as in English, History and Philosophy.

The College's limited enrolment fosters a sense of community among faculty and students. Its resident Academic Dons, (senior graduate students who offer tutoring assistance in the Humanities, Life Sciences, Physical Sciences, Social Sciences and Commerce), along with the Registrarial staff facilitate informal contact for students with College Fellows who are faculty members drawn from many Arts and Science departments as well as from other Faculties. The College also provides the services of a Writing Centre (978-3530), and a Math Aid Centre (978-8454). In the College's campus are its Library which includes reference collections, several small reading rooms and reservable rooms for group-study, Chapel, cafeteria, dining halls, common rooms, theatre, and sports facilities. Student debating, athletic and drama societies anchor a very active student ethos and 25% of the College students live in residence. Both residences, at St. Hilda's and around the Trinity Quadrangle, house women and men, usually allocated by floor. The Gerald Larkin Academic Building, on Devonshire Place, includes the Buttery, theatre, the Centre for Ethics, lecture rooms and offices of many of the teaching staff, together with the Math Aid and Writing Centre. The International Relations Programme and its faculty members are housed in the north building of the Munk Centre for International Studies. The Buttery provides eating, lounge, and study space that is ideal for group discussions and computer use, as well as offices for "non-resident" students and the adjacent theatre. For further information about the College and for residence applications write the Registrar, Trinity College, Toronto, Ontario, M5S 1H8. The Registrar will see prospective students by appointment.

E-mail address: registrar@trinity.utoronto.ca

Web site: <http://www.Trinity.utoronto.ca>

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### University College

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#### Principal

S. Bashevkin, MA, PhD

#### Vice-Principal

J. L. Matus, MA, PhD

#### Registrar

S. Cornack, BA

#### Associate Registrar

L. Nauman, BA

#### Assistant Registrar

J. Rodriguez

#### Dean of Students

N. Robinson, M Ed

#### Chief Administrative Officer

J. Linley, CMA

#### Director of Alumni and Development

K. Aucoin, CFRE

#### Librarian

S. Kaszuba, MLS

#### Writing Workshop Director

J. Plotnick, MA, M Sc

University College was established in 1853 as the Provincial Arts College (the successor to King's College, founded in 1827); it still occupies its original building near the centre of the St. George Campus. The College's students may enrol in any of the courses offered by the Faculty of Arts and Science. In addition, University College offers seven interdisciplinary programs, including Aboriginal Studies, Canadian Studies, Cognitive Science and Artificial Intelligence, Drama, Health Studies, Peace and Conflict Studies, and Sexual Diversity Studies. College courses in these and other areas are listed in the *Calendar* under Aboriginal Studies, Drama and University College.

University College offers residence accommodation for 700 undergraduates in both single and double rooms in its three co-educational residences, the Sir Daniel Wilson Residence, Whitney Hall, and Morrison Hall. Enquiries should be addressed to the Residence Office, 79 St. George Street, Toronto, Ontario, M5S 2E7. University College offers the services of a Computing Centre, a Math Aid Centre and a Writing Workshop. Other amenities include the University College Library, which comprises a circulating collection supporting UC programs and a spacious reading room; the U.C. Union with its dining hall and common rooms; the Playhouse, a theatre for student productions; the Junior Common Room; and the University College Literary and Athletic Society, Canada's oldest student government, which sponsors a great variety of athletic, intellectual and social activities.

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### Victoria College

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#### Chancellor

N.F. Jewison, BA, CC, LLD

#### President Emeritus

J.E. Hodgetts, MA, PhD, FRSC

#### President and Vice-Chancellor

P.W. Gooch, MA, Ph D

#### Principal and Program Director

D.B. Cook, MA, PhD

#### Associate Director, Office of the Principal

J.L. Welsh

#### Registrar

S.C. McDonald, BA

#### Associate Registrar

E. Melo, BA

#### Assistant Registrar

V. Ferrier, BA

#### Director, Alumni Affairs and University Advancement

L.D. Davies, BA

#### Bursar

D. Keeling, BA, MA

#### Dean of Students

J. Hunter BA

# About the University, the Faculty and the Colleges

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## **Librarian**

R.C. Brandeis, BA, MLS, Ph D

Victoria College, founded in 1836 as Upper Canada Academy, was granted a university charter in 1841 and federated with the University of Toronto in 1892.

The college is located on a 15-acre site at the north-east corner of Queen's Park opposite the Royal Ontario Museum. It offers many facilities to its students, including the E.J. Pratt Library with its 220,000 volumes, the Wymilwood Student Union, and a playing field. The Victoria College building, opened in 1892, contains classrooms, some faculty and administrative offices, Chapel and Alumni Hall. Northrop Frye Hall, completed in 1966, also provides office space for most of the administrative and teaching staff and contains classrooms and a large auditorium theatre. The Isabel Bader Theatre opened in 2001 offering a 500-seat state-of-the-art lecture hall with excellent facilities for the performing arts. Academic advising and support is provided by the Registrar's Office. In addition, the College has a Math Aid Centre, a Writing Workshop, and tutorial services in a wide range of subjects.

Residence accommodation for approximately 800 students is available on campus. Annesley Hall, Margaret Addison Hall and Burwash Hall provide accommodation in single and double rooms for chiefly undergraduate students. The Lower Houses of Burwash Hall and Rowell Jackman Hall, an apartment style residence, house upper-year undergraduate and graduate students. All residence students take their meals in Burwash Dining Hall. Non-residence students may purchase meal tickets for Burwash or take light meals at the Wymilwood Cafe (Ned's). Further information about residences may be obtained by writing to the Dean of Students, Victoria College, Toronto, Ontario, M5S 1K7.

E-mail: vic.registrar@utoronto.ca

Web site: <http://vicu.utoronto.ca>

## **Woodsworth College**

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### **Principal**

M. O'Neill-Karch, MA

### **Registrar**

C. Shook, BA, MA

### **Program Director**

W.H. Bateman, BA

### **Director, Professional & International Programs**

Y. Ali, BA, MSc

### **Associate Registrar**

J.N. Guyatt, BA

### **Associate Registrar**

A.M. Armogan

### **Associate Registrar**

W. Wong, BSc

### **Dean of Students**

L. Nassim, BA

### **Director, Academic Writing Centre**

W. B. MacDonald, BA, MA

## **Executive Director: Advancement, Alumni & Communications**

B. Track, BA, CFRE

## **Chief Administrative Officer**

M. Choi, B Com, CA

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 traces its roots to 1905 when a part-time program leading to the Bachelor of Arts degree was established at the University of Toronto. In 1920 the Department of University Extension was organized to offer credit and non-credit courses.

Woodsworth College was formally constituted in 1974 to offer credit courses primarily for part-time students in a number of faculties. In 1999 the College opened its doors to students proceeding directly from high school to full time studies. Woodsworth College is now home to over 3500 full time students and 2500 part-time students, who enrol in the full range of Arts and Science courses and programs - day and evening, summer and winter. The College also offers undergraduate degree programs in Criminology and Employment Relations; the Academic Bridging Program; international summer programs in Australia, Central Europe, China, Ecuador, England, France, Germany, Italy, Japan, Jordan, Mexico and Russia; and postgraduate certificates in Human Resource Management and Teaching English to Speakers of Other Languages.

A special feature of Woodsworth College is the academic support program which includes academic counselling, financial aid, study skills seminars, the Academic Writing Centre, and the Mathematics Lab. In co-operation with the Commerce Program, the recently expanded Computer Lab has thirty work stations with web access, word editing software and printing facilities. The Computer Lab is available to students enrolled in the Commerce Program or Woodsworth College, and is open extended hours. For further details e-mail [wdwregistrar@utoronto.ca](mailto:wdwregistrar@utoronto.ca) or check [www.wdw.utoronto.ca](http://www.wdw.utoronto.ca).

Our new residence at the corner of Bloor Street West and St. George Street accommodates 371 students in air-conditioned suites with private single bedrooms. Each suite accommodates four to six students, with a shared living area, a full kitchen and two washrooms. There is twenty-four hour security, high speed internet access, common areas and laundry facilities. In addition, we offer a Residence Life Program of social and educational activities. The Woodsworth College Residence provides students with an exceptional residential experience in a modern building that is conveniently located, close to classrooms, libraries, athletic facilities and the subway. More information about the residence can be obtained at [www.wdw.utoronto.ca/residence](http://www.wdw.utoronto.ca/residence).

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