

Faculty of Arts and Science University of Toronto 2006-2007 Calendar

Message from the Dean

Welcome to the 2006-2007 academic year.

Since the first chemistry, philosophy and classics classes were taught at King's College—U of T's precursor—in 1843, the Faculty of Arts and Science has evolved into one of the largest and most comprehensive and diverse faculties in North America and established itself as the heart of one of the world's truly great universities.

This *Calendar* is your guide to the wide range of academic choices available to you as a student in the Faculty of Arts and 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 what courses to take. There are many people who work in Arts and 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 and 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 and 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 and Science Registrar's office suggestion box. Take part in campus surveys measuring student satisfaction. Through your feedback, we can continue to improve the quality of the educational experience in Arts and Science at U of T.

With best wishes for a great academic year,



Pekka K. Sinervo, FRSC
Professor of Physics and Dean

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, or “Subject POSTs”

The subject POSTs, or programs of study, that our *Calendar* lists and describes are available for the years 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 reasonably possible advance notice and alternative instruction will be given. The University, however, will not be liable for any loss, damages, or other expenses that such changes might cause.

Changes in Courses

For each subject POST 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, 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. The University will not be liable for any loss, damages, or other expenses that such limitations or withdrawals might cause.

Copyright in Course Lectures

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 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*.

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

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.artsandscience.utoronto.ca/current)

COURSES:

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

Scheduling information and enrolment instructions in the *RHT*.

PROGRAMS

General definitions and rules, *Calendar* pp. 23-24. Alphabetical listing of all Subject POSTs (programs of study), *Calendar* pp. 35-37 & *RHT*. Contacts & enrolment instructions, *RHT*.

DEGREE REQUIREMENTS

Hon.BA/BSc, *Calendar* pp. 23; B.Com p. 24.

FEES

Amounts, payment deadlines, refund schedules: Student Accounts website: www.fees.utoronto.ca.

See also *Calendar* p.458.

GRADING & MARKS

A&S grading scale & policies, pp.441-442; *UofT Grading Practices Policy*, pp. 467-469.

PETITIONS

Official rules, *Calendar* p. 463. See also the informal *Petitions Guide* on the ASW. Advising: from your College Registrar's Office.

EXAMS

Final Examination timetables, ASW.

Rules, *Calendar* p. 460. Also see Appendix to the *Petitions Guide*, which gives all the rules for exams, ASW.

ACADEMIC MISCONDUCT

Code of Academic Behaviour (i.e., plagiarism, cheating, etc), *Calendar* pp. 470-471. Also *Code of Student Conduct*, *Calendar* pp 472-475.

FINANCIAL AID

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

SCHOLARSHIPS

Admissions & Awards website: www.adm.utoronto.ca/awd; Arts & Science web site: www.artsandscience.utoronto.ca/scholarships.

TRANSCRIPTS

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

ADVISING

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 or *Getting There*.

COURSE EVALUATIONS

The ASSU *Anti-Calendar* appears on the ASSU website: <http://assu.sa.utoronto.ca>.

OLD EXAMS

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

For updates to this Calendar, check www.artsandscience.utoronto.ca/current. 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

2006 Summer Session

May 2006

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

June 2006

- 9 Fees payment deadline for deferred examinations in June 2006; deferred examination cancelled and grade with "0" for examination reinstated to academic record for students who have not paid.
- 11 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.
- 9-22 Arts and Science Spring Convocations
- 23 Classes end in F section code courses; Fees payment deadline for deferred examinations in August 2006; deferred examination cancelled and grade with "0" for examination reinstated to academic record for students who have not paid.
- 26-30 Final examinations in F section code courses, and deferred examinations in specified S section code courses from April/May 2006
- 30 Last date to file a petition regarding term work in 2006 summer session F section code courses

July 2006

- 3 Canada Day holiday; University closed
- 4 Classes begin in S section code courses; First day to request graduation in November 2006
- 7 Last date to file a petition regarding a final examination in 2006 summer session F section code courses
- 10 Last day to add courses with S section codes
- 19 Examination timetable for S and Y section code courses posted
- 23 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.
- 28 Notification of deferred examination dates during the August examination period mailed to students who have paid fee
- 31 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 2006

- 7 Civic holiday; University closed;
- 11 Classes end in S and Y section code courses
- 14-18 Final examinations in S and Y section code courses, deferred examinations from April/May 2006, and specified courses from June 2006
- 18 Last date to file a petition regarding term work in 2006 summer session Y/S section code courses

- 25 Last date to file a petition regarding a final examination in 2006 summer session Y/S section code courses

September 2006

- 10 Last day to request graduation for November 2006

2006 Fall Session

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.artsandscience.utoronto.ca/governance.

September 2006

- 4 Labour Day; University closed
- 11 Fall term classes begin in F and Y section code courses
- 24 Last day to add courses with F and Y section codes; Last day to enrol in Subject POST for 2006-2007 Session

October 2006

- 2 First date to request graduation in June 2007 on the Student Web Service
- 6 Fees payment deadline for deferred examinations in December 2006; deferred examination cancelled and grade with "0" for examination reinstated to academic record for students who have not paid.
- 9 Thanksgiving; University closed
- 20 Examination timetable for F section code courses posted
- 27 Notification of deferred examination dates during the December examination period mailed to students who have paid fee.

November 2006

- 5 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 2005-2006 Fall/Winter academic record
- 13-16 Arts and Science Fall Convocations (tentative)

December 2006

- 3 Last date to request graduation for June 2007
- 8 Classes end
- 11-21 Final examinations in F section code courses, and deferred exams from August 2006; Term tests in Y section code courses
- 21 Last date to file a petition regarding term work in 2006 fall session F section courses
- 22 Winter holidays for students begin; University is closed December 22 to January 3, 2007

2007 Winter Session

January 2007

- 8 Winter Session classes begin
- 12 Last date to file a petition regarding a final examination in 2006 fall session F section courses
- 21 Deadline to enrol in S section code courses
- 26 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 2007

- 2 Notification of deferred examination dates during Reading Week mailed to students who have paid fee
- 16 Final Examination timetable for S/Y courses posted
- 18 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.
- 19-23 Reading Week; Deferred Examinations from December 2006
- 23 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 2006 Summer academic record

March 2007

- 9 Notification of deferred examination dates during the April/May examination period mailed to students who have paid fee
- 11 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.

April 2007

- 6 Good Friday: University closed
- 13 Classes end (April 14 for Saturday classes)
- 16-20 Study period; no tests or examinations in this period
- 23-May 11 Final examinations in S and Y section code courses and deferred examinations from December 2006

May 2007

- 11 Last date to file a petition regarding term work for 2006-2007 fall-winter sessions Y/S section code courses
- 18 Last date to file a petition regarding a final examination for 2006-2007 fall-winter sessions Y/S section code courses
- 21 Victoria Day; University closed

June 2007

- TBA Arts and Science Spring Convocation. Please check "Ceremony Dates" at www.utoronto.ca/convocation.

2007 Summer and 2007-2008 Fall-Winter Tentative Dates

The tentative dates for the 2007 Summer and 2007-2008 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.artsandscience.utoronto.ca/current.

Admission

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 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.myfuture.utoronto.ca. 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

Arts & Science Student Recruitment Office

2032-100 St. George St.
Toronto, Ontario, Canada M5S 3G3
416-978-4272
recruit@artsci.utoronto.ca
www.artsandscience.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. Appropriate combinations of OAC and Grade 12 courses will also be considered.

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. 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. 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.

American Students

Applicants from the United States must present Grade 12 matriculation and results from two College Entrance Examination Board Scholastic Aptitude Tests and three Achievement Tests (American College Testing scores are also

accepted). For detailed information, check the Admissions and Awards web site at www.adm.utoronto.ca/adm.

Other Applicants

Information on admission requirements for applicants from overseas is available on the Admissions and Awards web site at 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.

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 309 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.

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.

Other Admission Categories

Students Transferring from University of Toronto at Mississauga and University of Toronto at Scarborough

Students transferring from the University of Toronto at Mississauga and the University of Toronto at Scarborough apply using an internal application available on the Admissions and Awards web site at http://www.adm.utoronto.ca/adm/adm_other_req/adm_appl_and_deadlines.htm. Students transferring

Admission

from UTM and UTSC 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 at Mississauga and the University of Toronto at 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, and a maximum of two generic credits to candidates who have completed a two-year diploma. 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 at Scarborough and the University of Toronto at 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 http://www.adm.utoronto.ca/adm/adm_other_req/adm_appl_and_deadlines.htm.

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 http://www.adm.utoronto.ca/adm/adm_other_req/adm_appl_and_deadlines.htm.

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 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 462). Students must observe Faculty policies, including the prohibition on repeating a "passed" course. For application information and deadlines, check 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 49 of this *Calendar*. Further information is also available at www.wdw.utoronto.ca or by contacting Woodsworth College, University of Toronto, Toronto M5S 1A9 (416-978-7487).

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

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 458 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. The following list indicates the minimum length of study required in Arts and Science before you may apply to these U of T programs.

Architecture

4 year bachelor's degree in any field

Dentistry

3 years

Graduate School

Hon. B.A./Hon. B.Sc.

Law

3 years

Medicine

3 years

Nursing

2 years

Occupational Therapy

Hon. B.A./Hon. B.Sc.

Pharmacy

1 year

Physical Therapy

Hon. B.A./Hon. B.Sc.

4 year bachelor's degree

Radiation Sciences:

2 years

Speech Language Pathology:

Hon B.A./Hon. B.Sc.

Teaching

3 years

For detailed admission and contact information on professional studies, please refer to the following web site at: www.artsandscience.utoronto.ca/departmentsandprograms/professional

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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 479) 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

121 St. Joseph Street, Toronto, ON M5S 1J4

416-926-7117 phone/416-926-7266 fax

stmichaels.registrar@utoronto.ca

www.utoronto.ca/stmikes

hours: Monday, Tuesday, Thursday and Friday: 9:30 a.m.-12:30

p.m., 1:30 p.m.-4:30 p.m.;

Wednesday: 10:00 a.m. - 12:30 p.m., 1:30 p.m. - 6:00 p.m. (hours subject to change)

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 p.m.

Woodsworth College-Office of the Registrar

119 St. George Street, Toronto, ON M5S 1A9

416-978-4444 phone/416-978-6111 fax

info@wdw.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.

Student Services & Resources

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.

You can also get useful information about Arts and Science from the Faculty Registrar's web site (www.artsandscience.utoronto.ca/current). 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.

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
www.artsandscience.utoronto.ca/current
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
Email: 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
St. George Campus
Robarts Library
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
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 UofT 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 a counselor 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 student with disability related educational costs while attending post-secondary institutions. To access the bursary, students meet with a Service counsellor on their campus. University 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 e-mail janice.martin@utoronto.ca

Career Centre Services

Career Centre
Koffler Student Services Centre, 214 College Street
(416) 978-8000
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. 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

The Counselling and Learning Skills Service provides students with professional counselling for personal concerns such as anxiety, depression, relationship problems, emotional trauma from abuse or assault, prolonged stress. Client confidentiality is strictly observed.

The Learning Skills program includes lectures, workshops, and individual consultations on a variety of learning skills such as time-management, textbook reading, notetaking, etc. Counsellors are available by appointment or at the Learning Skills Drop-In Centre and Resource Library for assistance in developing study strategies, writing skills, and so on. These services are available in the Koffler Student Services Centre, 214 College Street. To arrange an initial consultation, drop in or phone 416-978-7970. Further information available: www.cals.utoronto.ca/

Student Services & Resources

Equity Issues

The Equity Issues Advisory Group is a coalition of offices charged with promoting the equality of all persons at the University of Toronto. The Group, primarily through the convenor, advises the President & senior members of the University administration on how the University can best realize its commitment to human rights & provides guidance on specific equity issues as they arise. While each office operates independently, the officers meet regularly to share & exchange expertise & information & to co-ordinate priorities & activities of the offices.

Any member of the University community is invited to contact the appropriate office with questions, complaints or issues. Many of the offices have a range of education & information resources. If you are not sure which office is most appropriate for your particular concern, please call the general inquiry line.

More info: www.library.utoronto.ca/equity
Phone 416-946-5624
Fax 416-946-8626

Family Care Office

Many students balance family obligations with their studies. The University is committed to fostering a family-friendly learning and working environment. The Family Care Office provides information, guidance, and referral services to students requiring child care (facilities, programs, or subsidies), elder care and assistance with other family matters.

Additional services include support groups and workshops such as Choosing Child Care that Works for your Family, Helping Your Child through a Separation or Divorce, and Elder Care: Navigating the System. All services are free and confidential. The Family Care Office has a resource centre containing practical material on family issues ranging from pregnancy and infant care to lesbian and gay parenting and caring for elderly family members. It also houses information on activities and facilities for student families on campus and in the community.

The Family Care Office: Koffler Student Services Centre, 214 College Street.
Phone: 416-978-0951 or Fax: 416-946-5466 or E-mail: family.care@utoronto.ca
Web site: www.library.utoronto.ca/familycare

First Nations House: Office of Aboriginal Student Services and Programs

“Leadership, Spiritual Growth & Academic Excellence”

First Nations House, is a dynamic place where Aboriginal students studying at U of T can seek culturally appropriate 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)
416-978-1893 (Fax)

Web: www.fnh.utoronto.ca
Email: fnh.info@utoronto.ca

First-Year Initiative Program (FYI)

(416) 946-0147
214 College Street, Koffler Student Services Building
www.studentservices.utoronto.ca

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

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.

Hours: 9 am to 5pm - Monday, Thursday and Friday; 9 am to 7 pm - Tuesday and Wednesday
Summer Hours: 9 am to 4:30 pm - Monday, Thursday and Friday, 9 am to 7 pm - Tuesday and Wednesday

For more information, please visit our Web site at: www.utoronto.ca/health

International Student Centre

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 services to international students: pre-arrival information (sent 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

LGBTQ Resources & Programs Office

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
Telephone: 416-946-5624
Fax: 416-971-2037

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

Office of the University Ombudsperson

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.

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

Psychiatric Service

The Psychiatric Service offers assessment and/or treatment for students with emotional and psychological concerns such as anxiety, depression, obsessions and compulsions, phobias, 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.

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 residence information, as well as other information to assist students locate and arrange suitable housing.

Residence

First year Arts & Science students apply for residence by indicating their interest in residence on their application for admission. Information on residence is provided with the Offer of Admission. It is advisable to apply for residence when you apply to the University—do not wait until you have been admitted.

Student Services & Resources

U of T's Guarantee

For the 2006/2007 school year, residence 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 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

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 there is a waiting period (While the average waiting period is approximately 1 year, this is only an average and depends on many variables, the most important of which is the supply of vacant apartments in any given month). If you can move with less than 2 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 ads posted daily by city landlords and students. This accommodation is usually 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 \$500 - \$750 (Bachelor), \$550 - \$900 (One bedroom), or \$800 - \$1300 (Two bedroom).

The office has telephones available for students to use free of charge to contact landlords and arrange an appointment to inspect the accommodation. Undergraduate and graduate students may also view the ads on the Student Housing Service website using their U of T student number and birth date to login.

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
Web site: www.housing.utoronto.ca

Student Exchange

The International Student Exchange Office (ISXO)

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 almost 100 universities in the following locations: Argentina, Australia, Austria, Belgium, Canada, Chile, China including Hong Kong, the Czech Republic, Denmark, England, Estonia, Finland, France, Germany, Greece, Ireland, Israel, Italy, Japan, 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/
student.exchange@utoronto.ca
Telephone: 416-946-3138

Summer Abroad Program

Your ticket to a brighter future!

Prepare yourself for a future in the global village by participating in one of the highly reputed Faculty of Arts & Science Summer Abroad programs. These programs are designed to give students an exciting international experience that fosters an awareness

and appreciation for the people, cultures, and social and economic systems of the host country.

Locations

Administered through Woodsworth College, the 2006 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)

Please check our website in the fall to see the 2007 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 taught in English. Typically, full credit 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 some 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

Web: www.summerabroad.utoronto.ca

Professional Experience Year

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.

Co-op Japan Program

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.

Student Unions and Associations

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

Student Services & Resources

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

Web site: assu.sa.utoronto.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

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

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

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

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.

Recognition of Exceptional Academic Achievement: "High Distinction" and "Distinction"

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

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.artsandscience.utoronto.ca/scholarships.

Language Citation Program

The University of Toronto wishes to enhance study in languages. Through the Language Citation program, students are encouraged to pursue language study at more advanced levels. This program is not intended to take the place of a Minor which has language proficiency as a significant element, but is intended to provide an incentive to students who may be interested in intensive language study and language proficiency, but who do not wish to complete a major or minor. Students fulfilling a Minor who meet the minimum grade requirements for the citation, will have the citation noted on their transcripts along with the Minor.

The University of Toronto is an ideal place for students to achieve this proficiency. Our students live in a country that promotes multiculturalism and our university is located in one of the world's most diverse cities. In addition, we offer significant language opportunities in both ancient and modern languages. We offer a variety of study abroad programs and the number of such programs will expand. As our students seek further international study, work opportunities, and post-graduate study, the citation program allows students to take better advantage of our rich language offerings. The Language Citation can be earned in any language, modern or ancient, which provides sufficient advanced training. The following departments offer citations in languages: Classics, East Asian, French, German, Italian, Near and Middle Eastern Studies, Spanish and Portuguese, and Slavic Languages and Literatures. Typically students will take four semesters beyond the first year. Students must earn a minimum grade of B- in each course. Students may take courses taught in the target language, e.g. literature or linguistics, as part of the citation program. Students for whom English is not their native language and who wish to earn a citation in their home language should consult with the relevant department for approval to participate in the language citation program. Students wishing to earn credits in the country where the language they are studying is spoken, should discuss study abroad programs with the department.

Student Services & Resources

Languages typically offering the citation option are: Akkadian, Ancient Greek, Aramaic, Chinese, Czech, Egyptian Hieroglyphs, Finnish, French, German, Hebrew, Hungarian, Irish, Italian, Japanese, Korean, Latin, Polish, Portuguese, Russian, Spanish, Turkish, Ukrainian and Yiddish.

There are other languages in which advanced courses in literature and culture are offered following a two-year language sequence. These languages could also be used for the citation program. Here are included: Bengali, Bosnian/Croatian/Serbian, Hindi, and Persian.

Citations in other languages could be arranged through consultation with individual academic units.

Degree Requirements

Degree Requirements

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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 25).
- (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 at Scarborough or the University of Toronto at 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

PLEASE NOTE

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.

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 + two Minors, two of the three programs must be in science areas for an Hon. B.Sc. (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

For the complete Commerce degree, program and course listing, see page 38.

Bachelor of Commerce (B.Com.) Degree Requirements

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

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

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 25).
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 25).
3. ONE full course equivalent must be from the Sciences (see Page 25), with the following exceptions:
All 100-series courses in CSC, MAT, STA; STA 250HI, 255HI, 257HI, 352YI.
4. NOTE: transfer students from UTM 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)
- Classics (CLA course designators)
- Drama (DRM course designators)
- East Asian Studies (EAS course designators)
- English (ENG course designators)
- Estonian (EST course designators)
- Fine Art History (FAH course designators)
- Finnish (FIN course designators)
- French (FCS, FRE, FLS 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 Fine 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 38 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
- Botany (BOT course designators)
- Chemistry (CHM course designators)
- Computer Science (CSC course designators)
- Geology (GLG course designators)
- Human Biology (HMB course designators); all HMB courses except HMB438HI 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 PHC470HI, 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 (SC1199 course designators)
- Statistics (STA course designators); all STA courses except 220H, 221H, 250H, 255H, 257H, JBS 229H which have NO Distribution Requirement status)
- Zoology (ZOO course designators)

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	Science and the Environment (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.

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 Hershel. 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 26L, 13T
(formerly HPS200Y1)
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

HPS275HI Science and Technology in 26L, 13S
The Realms of Islam, 600-1600, Part I:
The Mathematical Sciences and their
Practical Applications

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.
Exclusion: NMC379HI
This counts as a Humanities or Science course

HPS276HI Science and Technology in 26L, 13S
the Realms of Islam, 600-1600, Part II:
The Life Sciences

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.
Exclusion: NMC379HI
This counts as a Humanities or Science 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, PHY201HI, 205HI, CHM200Y1)

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, 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

BOT202YI Plants and Society 52L

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

Exclusion: All BIO courses; all BOT and ZOO courses except ZOO200Y1, if taken previously or at the same time.

This course is intended primarily for Humanities and Social Science students

CHM200YI The Role of Chemistry in 52L
Modern Society

Human beings are constructed physically of chemicals, live in a sea of chemicals and are very dependent for their material quality of life on the modern chemical industry. This course is especially for non-science students who wish to develop a better understanding of the impact and importance of chemistry in industry, society and the environment. The course should be of particular interest to students with interests in economics, commerce, management, politics, psychology and teaching.

Exclusion: Students who have taken one or more university-level courses in chemistry require permission of the instructor.

Prerequisite: completion of 5 full courses at the university level

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.

ENV200YI 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.

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.

Degree Requirements

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: JGG150Y1

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

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

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 and Poetry (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.

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: PHY110Y1/138Y/140Y taken previously or concurrently

PHY100HI is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

PHY101HI Patterns from Chaos 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: PHY110Y1/138Y/140Y 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.

PHY205H 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.

PHY205HI is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

SCI199HI First Year Seminar Courses**YI**

The Faculty offers many sections of SCI 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.

ZOO200YI Aspects of Human Biology 52L, 26T

Biological issues and concepts. Human interactions with each other, with other species, and with the physical environment. Human biological and cultural evolution (mechanisms, changes in anatomy, behaviour, conceptualization, resource consumption, biotechnology); sexuality (development, theories and controversies in current research); population growth and environmental impact (carrying capacity, water and land use; pollution, resource management); environmental health (biodiversity, food supply, pesticides, ethics and decision-making).

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

ZOO214YI Evolution and Adaptation 52L, 26T

Organic evolution by natural selection, both as formulated by Darwin and Wallace and modified by modern workers: topics vary but may include speciation; evolution of development; evolution of higher taxa, mutation, natural selection, adaptations and coevolution. Essays and reading required.

Exclusion: BIO150YI/323HI/ZOO324YI

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

ZOO215HI Conservation Biology 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: BIO 365HI

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

ZOO216HI Marine Mammal Biology and Conservation 26L, 12T

This course introduces students to anatomical and physiological adaptations of marine mammals and how they differ based on their own unique needs. The effects of various environmental stressors will also be covered. Anatomical models will be provided (skulls, teeth, etc.), supplemented with video and other teaching tools.

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

Prerequisite: Biology 12/OAC Biology or equivalent

Guide to Programs and Courses

Guide to Programs & Courses

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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 HBSc) “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 35. 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

6. To calculate course loads, students should consult this *Calendar* together with the *Registration Handbook & Timetable*.
The code “Y1” or “H1” in a course code in the *Calendar* indicate the credit value:
Y1 = a full course, for which one credit is given, e.g., ANT 100Y1
H1 = a half-course, for which one-half credit is given, e.g., HIS 332H1
7. 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 322H1 F
S = second half of the Fall-Winter Sessions (Jan-Apr), or second half of the Summer Session (July-Aug), e.g., HIS 322H1 S
Y = Fall and Winter sessions, or First and Second subsessions of the Summer Session, e.g., ANT 100Y1 Y
8. Students should note that courses designated as “...Y1 F” or “...Y1 S” in the *Timetable* are particularly demanding.
9. 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).
10. 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.
11. 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.
12. 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

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

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

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

For further information on these matters see Page 455.

Codes Used in the Course Descriptions

Course Designators

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 35 for a full alphabetical list of programs available to students in the Faculty.

Course Number

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 350Y1/351H1/352H1” = ECO 350Y1 OR ECO 351H1 OR ECO 352H1, each one being a seminar on a selected subject.

“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

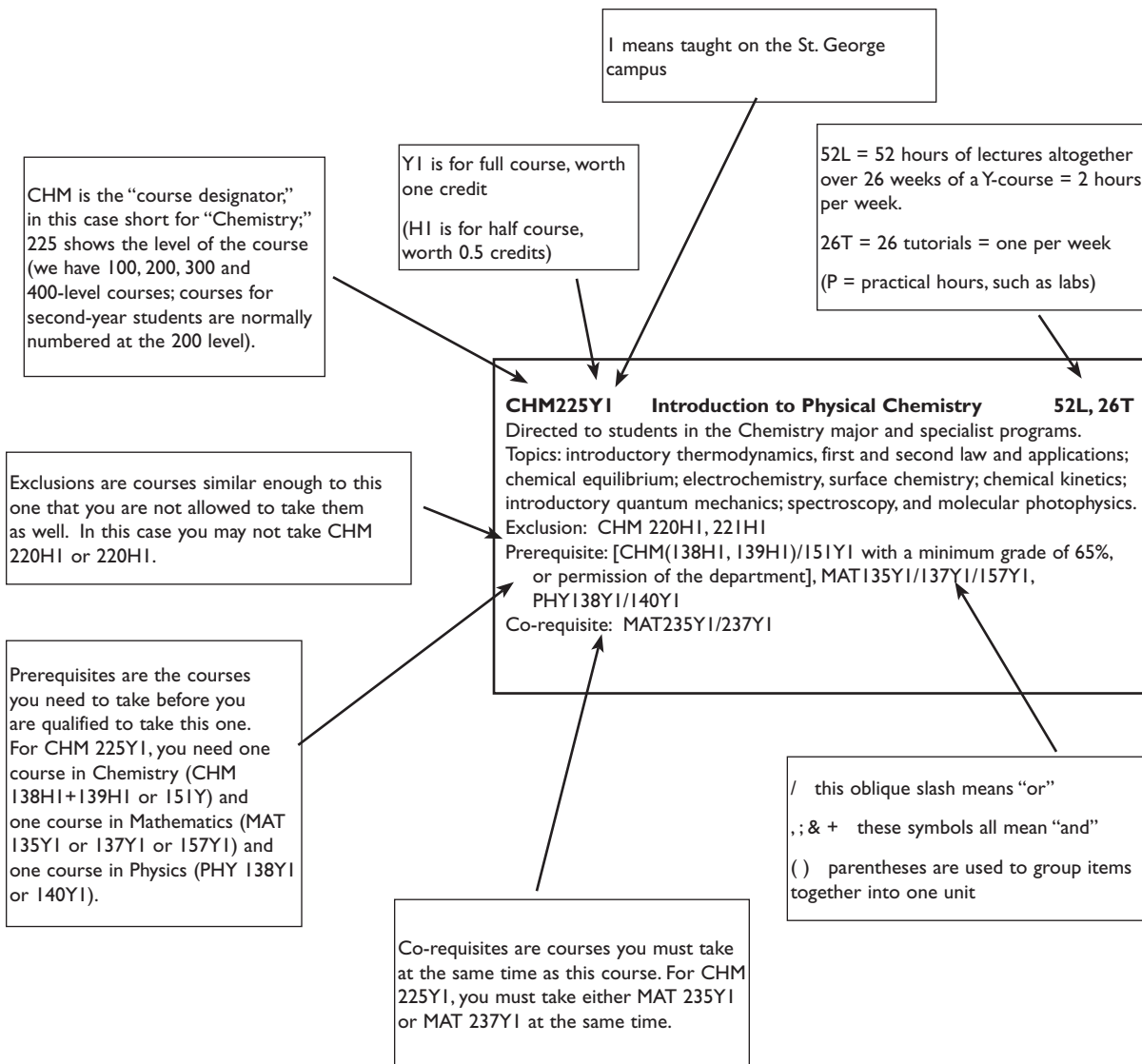
Section codes do not appear in the *Calendar*. In the *Registration Handbook & Timetable*, however, a section code is listed with a course code to indicate when the course is offered:

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

How to Read a Course Description



Arts and Science Programs & Courses

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 Research Opportunity Program 45
 Independent Experiential Study Program 45
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 Academic Bridging Program 49
 Actuarial Science 50
 American Studies 52
 Anatomy 241
 Anthropology 53
 Archaeology 61
 Architectural Studies 63
 Asia-Pacific Studies, Dr. David Chu Program in 67
 Astronomy & Astrophysics 68
 Biochemistry 242
 Bioinformatics & Computational Biology 242
 Biology 246
 Botany 249
 Cell & Systems Biology 252
 Chemistry 71
 Classics 78
 Comparative Literature 84
 Computer Science 85
 Diaspora & Transnational Studies 99
 Drama 102
 East Asian Studies 106
 Ecology & Evolutionary Biology 257
 Economics 114
 English 124
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 European Studies 145
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 Life Sciences: Biology 246
 Life Sciences: Botany 249
 Life Sciences: Cell & Systems Biology 252
 Life Sciences: Ecology & Evolutionary Biology 257
 Life Sciences: Human Biology 264
 Life Sciences: Immunology 269
 Life Sciences: Laboratory Medicine & Pathobiology 271
 Life Sciences: Molecular Genetics & Microbiology 274
 Life Sciences: Neuroscience 277
 Life Sciences: Nutritional Sciences 278
 Life Sciences: Pharmaceutical Chemistry 280
 Life Sciences: Pharmacology & Toxicology 282
 Life Sciences: Physiology 286
 Life Sciences: Psychology 290
 Life Sciences: Zoology 298
 Linguistics 302
 Materials Science 307
 Mathematics 309
 Molecular Genetics & Microbiology 274
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 Pharmaceutical Chemistry 280
 Pharmacology & Toxicology 282
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 Political Science 362
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 Psychology 290
 Religion 379
 St. Michael's College 389
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 Trinity College 425
 University College 429
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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	334

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 334.

Level	Title	Page	Level	Title	Page
SPE/MAJ/MIN	Aboriginal Studies	46	SPE	Computer Science: Software Engineering Option	85
SPE/MAJ	Actuarial Science	50	SPE	Computer Science: Comprehensive Option	85
SPE/MAJ/MIN	African Studies	334	SPE/MAJ	Criminology	449
MAJ/MIN	American Studies	52	MAJ/MIN	Croatian & Serbian Studies	397
SPE/MAJ/MIN	Anthropology	53	MAJ/MIN	Czech & Slovak Studies	397
SPE/MAJ	Anthropology (Biological)	53	SPE	Developmental Biology	252
MAJ	Anthropology (Linguistic & Semiotic)	53	MAJ	Dr. David Chu Program In Asia-Pacific Studies	67
SPE	Anthropology (Social & Cultural)	53	MAJ/MIN	Diaspora & Transnational Studies	99
SPE	Applied Mathematics	309	SPE/MAJ/MIN	Drama	102
SPE	Applied Physics	351	SPE	Earth Systems: Physics & the Environment	133
SPE/MAJ	Archaeological Science	61	SPE/MAJ/MIN	East Asian Studies	106
SPE	Archaeology	61	SPE	Ecology	257
MAJ	Architectural Studies (Design)	63	MAJ/MIN	Economic History	114
MAJ	Architectural Studies (History, Theory, Criticism)	63	SPE	Economic History & Economics	114
SPE	Astronomy & Physics	68	SPE/MAJ/MIN	Economics	114
MAJ/MIN	Astronomy and Astrophysics	68	SPE	Economics & Geography	114
SPE	Behaviour	257	SPE	Economics & Mathematics	114
SPE/MAJ	Biochemistry	242	SPE	Economics & Philosophy	114
SPE/MAJ/MIN	Bioethics	340	SPE	Economics & Political Science	114
SPE	Biogeography	178	SPE	Economics & Sociology	114
SPE	Bioinformatics & Computational Biology	242	SPE	Economics & Statistics	114
SPE	Biological Chemistry	71	SPE	Economics (Commerce & Finance)	38
SPE/MAJ/MIN	Biology	246	SPE	Economics (Quantitative Methods)	114
SPE	Biophysics	351	SPE/MAJ	Employment Relations	449
MIN	Book & Media Studies	389	SPE/MAJ/MIN	English	124
SPE/MAJ/MIN	Botany	246	SPE	English & Drama	102
SPE/MAJ	Buddhist Studies	379	SPE	English & Linguistics	121
MIN	Business German	194	SPE	English & Philosophy	124
SPE/MAJ/MIN	Canadian Studies	429	SPE	Environment & Health	133
SPE/MAJ/MIN	Caribbean Studies	334	SPE/MAJ	Environment & Resource Management	178
SPE/MAJ/MIN	Celtic Studies	389	SPE/MAJ/MIN	Environment & Science	133
SPE	Chemical Physics	71	SPE/MAJ/MIN	Environment & Society	133
SPE/MAJ/MIN	Chemistry	71	SPE	Environment & Toxicology	133
SPE	Chemistry & Geology	71	MIN	Environmental Anthropology	133
SPE/MAJ/MIN	Christianity & Culture	389	MIN	Environmental Biology	133
SPE/MAJ/MIN	Cinema Studies	219	SPE/MIN	Environmental Chemistry	133
MAJ/MIN	Classical Civilization	78	MIN	Environmental Economics	133
SPE/MAJ	Classics	78	MIN	Environmental Ethics	133
SPE/MAJ	Cognitive Science	429	SPE/MAJ/MIN	Environmental Geosciences	133
SPE	Cognitive Science & Artificial Intelligence	429	SPE/MAJ/MIN	Environmental Policy & Practice	133
SPE	Commerce & Finance (B.Com.)	38	MAJ	Equity Studies	334
MAJ	Commerce (B.A.)	38	MIN	Estonian Studies	159
SPE	Comparative Animal Physiology	252	MAJ	Ethics, Society & Law	425
SPE/MAJ	Computer Science	85	MAJ	European Studies	145
SPE	Computer Science & Economics	85	SPE	Evolutionary Biology	257
SPE	Computer Science & Mathematics	85	SPE	Financial Economics	114
SPE	Computer Science & Physics	85	SPE/MAJ/MIN	Fine Art (History of Art)	146
SPE	Computer Science & Statistics	85	MAJ/MIN	Finnish Studies	159
SPE	Computer Science: Artificial Intelligence Option	85	SPE/MIN	Forest Conservation	164
SPE	Computer Science: Foundations Option	85	SPE/MAJ/MIN	Forest Conservation Science	164
SPE	Computer Science: Information Systems Option	85	SPE	French & German	168
			SPE	French & Italian	168
			SPE	French & Portuguese	168

Programs and Courses

Level	Title	Page	Level	Title	Page
SPE	French & Russian	168	SPE	Molecular Genetics & Microbiology	274
SPE	French & Spanish	168	SPE	Molecular Plant Biology	252
MIN	French as a Second Language	168	SPE/MAJ	Music	320
MIN	French Cultural Studies	168	MIN	Music History & Culture	320
SPE/MAJ	French Language & Linguistics	168	SPE/MAJ	Music with Ensemble Option	320
SPE/MAJ	French Language & Literature	168	SPE/MAJ/MIN	Near and Middle Eastern Civilizations	323
MAJ	French Second Language Learning	168	SPE	Neuroscience	277
MIN	French Studies	168	SPE/MAJ	Nutritional Science	278
MIN	French Translation	168	MIN	Paradigms & Archetypes	334
MIN	Geographic Information Systems	178	SPE	Past Environments	133
SPE/MAJ/MIN	Geography	178	SPE	Pathobiology	271
SPE/MAJ/MIN	Geology	190	SPE/MAJ	Peace & Conflict Studies	429
SPE	Geology & Physics	190	SPE	Pharmaceutical Chemistry	280
SPE	German & Italian	194	SPE/MAJ	Pharmacology	282
SPE	German & Russian	194	SPE	Pharmacology & Toxicology	282
SPE	German & Spanish	194	SPE/MAJ/MIN	Philosophy	340
SPE/MAJ/MIN	German Studies	194	SPE	Philosophy & Political Science	340
MAJ/MIN	Greek	78	SPE	Philosophy & Religion	340
SPE/MAJ	Health Studies (B.A.)	429	SPE	Philosophy & Sociology	340
SPE/MAJ	Historical & Cultural Geography	178	SPE	Philosophy of Science	340
SPE/MAJ/MIN	History	198	SPE/MAJ/MIN	Physical & Environmental Geography	178
MAJ	History & Philosophy of Science	215	SPE/MAJ/MIN	Physics	351
	and Technology		SPE	Physics & Philosophy	351
SPE	History & Political Science	198	MAJ	Physics (General)	351
SPE	Human Biology: Genes, Genetics &	264	SPE/MAJ/MIN	Physiology	286
	Biotechnology		SPE	Planetary Science	361
SPE	Human Biology: Global Health	264	SPE	Polish & French	397
SPE	Human Biology: Health & Disease	264	SPE	Polish & German	397
SPE	Human Biology: Human Behavioural	264	SPE	Polish & Russian	397
	Biology		MAJ/MIN	Polish Language & Literature	397
MAJ	Human Biology: Life Science	264	MAJ/MIN	Polish Studies	397
SPE	Human-Computer Interaction	85	SPE/MAJ/MIN	Political Science	362
MAJ/MIN	Hungarian Studies	159	SPE	Political Science & Sociology	362
SPE	Immunology	269	SPE/MAJ/MIN	Portuguese	376
MAJ	International Development Studies	133	SPE	Portuguese & Spanish	376
SPE/MAJ	International Relations	425	MAJ	Prehistoric Archaeology	61
SPE	International Relations Program/Peace	425	SPE/MAJ/MIN	Psychology	290
	& Conflict Studies Program		SPE	Psychology (Research Specialist)	290
SPE/MAJ/MIN	Italian	226	SPE/MAJ/MIN	Religion	379
SPE	Italian & Portuguese	226	SPE	Religion: Christian Origins	379
SPE	Italian & Russian	226	SPE/MAJ/MIN	Renaissance Studies	439
SPE	Italian & Spanish	226	MIN	Russian Language	397
MIN	Italian Culture & Communication	226	SPE/MAJ/MIN	Russian Language & Literature	397
	Studies		MIN	Russian Literature in Translation	397
MAJ	Italian Second Language Learning	226	MAJ/MIN	Semiotics & Communication Theory	439
SPE/MAJ/MIN	Jewish Studies	233	MAJ/MIN	Sexual Diversity Studies	429
MAJ/MIN	Latin	78	SPE	Slavic Languages	397
MAJ	Latin American Studies	237	SPE	Slavic Languages & Literatures	397
MIN	Life & Environmental Physics	351	SPE/MAJ/MIN	Sociology	407
SPE/MAJ/MIN	Linguistics	302	SPE	Sociology & Urban Studies	407
SPE	Linguistics & Computing	302	SPE/MAJ/MIN	South Asian Studies	334
SPE	Linguistics & French	302	SPE/MAJ/MIN	Spanish	416
SPE	Linguistics & Italian	302	SPE/MAJ/MIN	Statistics	421
SPE	Linguistics & Philosophy	302	SPE/MAJ	Toxicology	282
SPE	Linguistics & Spanish	302	SPE	Ukrainian & French	397
SPE	Linguistics and German	194	SPE	Ukrainian & German	397
MAJ/MIN	Literary Studies	439	SPE/MAJ/MIN	Ukrainian Language & Literature	397
SPE	Literary Studies & Philosophy	439	SPE/MAJ/MIN	Urban Studies	219
SPE	Materials Science	307	SPE/MAJ	Urban, Economic & Social Geography	178
SPE	Mathematical Statistics	309	SPE/MAJ/MIN	Visual Studies	146
SPE/MAJ/MIN	Mathematics	309	SPE/MAJ/MIN	Women and Gender Studies	446
SPE	Mathematics & Its Applications	309	MIN	Writing & Rhetoric	219
SPE	Mathematics & Philosophy	309	MIN	Al & Malke Green Program in Yiddish	194
SPE	Mathematics & Physics	309	SPE/MAJ/MIN	Zoology	246
SPE/MAJ/MIN	Mediaeval Studies	389			

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 114.

Faculty

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
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
J.L. Xie, BA, MBA, Ph D

Associate Professors

D.J.S. Brean, MBA, M Sc, Ph D
K. Corts, BA, Ph D
D.W. Greeno, MBA, Ph D (W)
S. Hawkins, BA, MS, Ph D
R. Kan, MBA, 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

A. Agrawal, MBA, M Eng, Ph D
T. Avnet, BA, M.Phil, M Sc, Ph D
O. Baron, B Sc, MBA, PhD
J. Berdahl, MA, Ph D
B. Blum, 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
S. Meza, MBA, M Phil
J. Oesch, B Sc, M Ed, MBA, M Sc, Ph D
M. Rindisbacher, BA, M Sc, Ph D
D. Segal, BA, Ph D
T. Simcoe, AB, MA
I. Skurnik, BS, MA, Ph D
S. M. Toh, BBS, Ph D
M. Weber, MA, MBA, Ph D

Senior Lecturers

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

Lecturers

A. Armstrong, BA, MBA, Ph D
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

NOTE: As of September 2006, the Commerce Programs Office will be moving to 321 Bloor Street West

Bachelor of Commerce (B.Com.) Degree Requirements

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

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

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 25).
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 25).
3. ONE full course equivalent must be from the Sciences (see Page 25), with the following exceptions: All 100-series courses in CSC, MAT, STA; STA 250HI, 255HI, 257HI, 352YI.
4. NOTE: transfer students from UTM 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 133YI/(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 137YI instead, noting that MAT 137YI 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 100YI with at least 67%, MGT 120HI with at least 63%, and MAT 133YI 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 100YI, with a mark of at least 67%
- Complete one of MAT 133YI/135YI/136Y/137YI/(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 100YI and MAT 133YI (or equivalent) of at least B-, whether the courses were taken at U or 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 and Finance (B.Com)

Specialist program:

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

First Year:

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

Higher Years:

1. Additional MGT Component (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

Commerce

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 200YI/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:

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.

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

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, Rhetoric and Critical Analysis" 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.
 2. 1.0 Economic History course from: ECO 301YI, 302HI, 303YI, 307HI, 308HI, 309HI, 321YI, 342YI, 353YI, 354HI, 355HI, 423HI, 429YI, 435HI

Commerce (Arts program)

Students taking this program follow the degree requirements for the Honours Bachelor of Arts (see page 23).

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 MGT330HI, 363HI, 371HI, 374HI, 393HI, or any 400-level MGT course

Commerce Courses

For Distribution Requirement purposes (see page 25), 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 118)

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

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

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 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, 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

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

Commerce

MGT353HI Introduction to Marketing Management 26L

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.

Prerequisite: MGT252HI

Recommended Preparation: ECO220YI/227YI/STA(250HI, 255HI)/(257HI, 261HI)

MGT363HI Organization Theory and Design 26L

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.

MGT371HI Introduction to Business Information Systems 26L

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.

Exclusion: CSC340HI

MGT374HI Operations Management 26L

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.

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

MGT393HI Legal Environment of Business I 26L

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.

MGT394HI Legal Environment of Business II 26L

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.

Prerequisite: MGT393HI

MGT 395YO Special Topics

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

**MGT401HI/ Independent Study Course TBA
402HI**

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.

Prerequisite: Cumulative GPA of at least 2.70

**MGT403YI/ Independent Study Course TBA
404YI**

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.

Prerequisite: Cumulative GPA of at least 2.70

**MGT410HI/ Special Topics in Management TBA
411HI/
412HI/
413HI/
414HI/
415HI/
416HI/
417HI/
418HI/
419HI**

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.

MGT420HI Critical Thinking, Analysis and Decision Making 39L

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.

Prerequisite: Fourth-year St. George Commerce student

Recommended Preparation: MGT 321H, MGT 322H, MGT 323H, MGT 337Y

MGT421HI Advanced Auditing Topics 26L

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.

Prerequisite: MGT321HI

MGT422HI Computer Auditing 26L

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.

Prerequisite: MGT321HI, 371HI

MGT423HI Canadian Income Taxation I 26L

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.

Prerequisite: MGT322HI/323HI/337YI

MGT426HI Advanced Accounting 26L

The emphasis in this course is on accounting issues and practices relating to long-term investments, consolidations,

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

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

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

MGT 430HI 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: MGT 337Y/(331Y with a B+)

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/At least B+ in MGT331YI/ACT (340HI, 370HI), ECO200YI/206YI

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.

Prerequisite: MGT337YI/At least B+ in MGT331YI/ACT (340HI, 370HI), ECO200YI/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/At least B+ in MGT331YI, ECO200YI/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)

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

Prerequisite: 1.0 300+ MGT full course equivalent

MGT491HI Introduction to International Business 26L

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 Strategic Management 26L

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

Commerce

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 Simulation 26L

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 MGT337YI

First Year Seminars: 199HI/YI Courses

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.artsandscience.utoronto.ca/current

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 25) and the *First-Year Handbook*.

Research Opportunity Program: 299YI Courses

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

Web site: www.artsandscience.utoronto.ca/current

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, ZOO 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

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 398H0/399YI 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, VIC, ZOO, 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

Faculty

Professor

S. Ortiz

Assistant Professor

D. McGregor

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 Professor Keren Rice, Linguistics (416-978-1763, rice@chass.utoronto.ca).

Aboriginal Studies Programs

Aboriginal Studies (Arts program)

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 or Group B below (note: some of these courses have prerequisites)

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 Craft: 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 1
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	Contemporary Native North American Literature
FRE434H1	Native Authors in Quebec
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)
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

Aboriginal Studies Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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

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 'Nateness' 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 Craft: Technical and Theoretical Aspects 52L, 26P/26L, 13P

An introduction to aboriginal crafts, including basketry, textile work, beading, leather work, with concentration on technical, theoretical, esthetic and cultural aspects.

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 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

Aboriginal Studies

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

A critical survey of contemporary Native Canadian musical practices ranging from "traditional" musics to more recent popular musical expressions.

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 45 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 the social, political, economic and cultural dynamics of colonization with the goal of understanding the internal complexities and conflicts within the Aboriginal world and in relationship to Western civilization, examined through the study and writing of creative non-fiction.

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 intended 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 31 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, comprehend, analyze, and interpret texts; how to write clearly and effectively about them; and how to do library research. Ten to twelve assignments for a minimum of 8000 words.

This is a Humanities course

JWH100Y1 Canadian History 78L

The course is a survey of Canada's political, social, and economic history from the colonial era 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

JWM101Y1 Essential Mathematics 104L, 26T

The knowledge and skills essential for success in university Mathematics courses. Elementary material on geometry, algebra, functions and trigonometry followed by a delineation of the essence of differential calculus and its applications using the basic notions of limit, continuity and differentiation. (Course not offered in 2006-2007).

Exclusion: OAC Calculus or its equivalent, taken within the last three years

Prerequisite: At least 70% in Grade 12 Advanced Mathematics, or its equivalent

This course does not count as a Distribution Requirement 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 an 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

Given by Members of the Department of Statistics

Faculty

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

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. ACT 245HI synthesizes basic mathematics (including calculus) and probability concepts with introductory concepts in financial risk management, providing insight into some of the basic issues involved in actuarial science. 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

Actuarial Science Programs

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

Actuarial Science (Science program)

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 120HI
2. ECO 100Y1(70%)
3. MAT 137Y1(55%)/157Y1
4. MAT 223HI/240HI (may be taken in 2nd year)

Second Year:

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

Higher Years:

1. ACT 348HI, 349HI, (any of these courses can be substituted for ACT 349HI)/MGT 331Y1/MGT 337Y1/(ECO 358HI, ECO 359HI), 370HI, 451HI, 455HI, 460HI, 466HI
2. One of: ACT 470HI, 471HI, 472HI
3. STA 302HI, 347HI, 457HI

NOTES:

1. ECO 208Y1 (strongly recommended); STA 352Y1; MAT 244HI, 246HI; MGT 331Y1 are recommended
2. Students in the Actuarial Science Specialist program who have successfully completed ACT 348HI are eligible to enrol in the following MGT courses (provided the appropriate prerequisites and co-requisites are met): MGT 331Y1, 431HI, 438HI
3. 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%)

Higher Years:

1. ACT 240HI, 245HI, 247HI, 348HI, 370HI
2. MAT 237Y1/257Y1
3. STA (257HI, 261HI)
4. Two of: ACT 349HI, (any of these courses can be substituted for ACT 349HI)/MGT 331Y1/MGT 337Y1/(ECO 358HI, ECO 359HI)/451HI; STA 302HI, 347HI, 457HI
5. MAT 223HI/240HI is recommended

Actuarial Science Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), ACT courses are classified as Science courses

**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/I35YI/I37YI/I57YI

**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 (minimum grade C)

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/I57YI; STA257HI
Co-requisite: MAT237YI

ACT348HI Advanced Life Contingencies 39L

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

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

An instructor-supervised group project in an off-campus setting. See page 45 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

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

Advanced life contingencies, multiple decrement theory, insurance policy expenses, multi-state transition models, Poisson processes.
Prerequisite: ACT348HI, 451HI; 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/MGT 331YI/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.

African Studies: see New College

American Studies (USA)

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

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

American Studies (Arts program)

Consult Ms. Christine Berkowitz, Room 327N, Munk Centre for International Studies (416-946-8972) 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 271YI/ENG 250YI/POL 203YI

Third year:

2. USA 300YI

Second, third, or fourth year:

3. Four courses from the following: ABS302HI, 341HI, 403HI, 405YI; ANT362YI, 365YI; DRM310HI; ECO 306YI, 423HI; ENG 238HI, 254YI, 256YI, 279YI, 358YI, 359YI, 361HI; FAH 289HI, 375HI, 410HI; GGR 240YI, 254HI, 336HI, 339HI; HIS 202HI, 316HI, 321HI, 327HI, 369YI, 370HI, 371HI, 372YI, 373HI, 374HI, 375YI, 376HI, 377YI, 378HI, 379HI, 393HI, 401YI, 404HI, 408YI, 409HI, 436YI, 447YI, 471HI, 473YI, 474YI, 475HI, 476HI, 478HI, 479YI, 482HI; INI 225YI, 322HI, 324YI, 460HI, 463HI, 483HI; POL 319YI, 326YI, 349HI, 420YI, 433YI; RLG 315HI, 442HI; USA 400HI, 401HI, 494HI, 495YI

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 271YI/ENG 250YI/POL 203YI

Third year:

2. USA 300YI

Second, third, or fourth year:

3. Two courses from the following: ABS302HI, 341HI, 403HI, 405YI; ANT362YI, 365YI; DRM310HI, ECO306YI, 423HI; ENG 238HI, 254YI, 256YI, 279YI, 358YI, 359YI, 361HI; FAH 289HI, 375HI, 410HI; GGR 240YI, 254HI, 336HI, 339HI; HIS 202HI, 316HI, 321HI, 327HI, 369YI, 370HI, 371HI, 372YI, 373HI, 374HI, 375YI, 376HI, 377YI, 378HI, 379HI, 393HI, 401YI, 404HI, 408YI, 409HI, 436YI, 447YI, 471HI, 473YI, 474YI, 475HI, 476HI, 478HI, 479YI, 482HI, 484YI; INI 225YI, 322HI, 324YI, 460HI,

463HI, 483HI; MUS306HI; POL 319YI, 326YI, 349HI, 420YI, 433YI; RLG315HI, 442HI; USA 400HI, 401HI, 494HI, 495YI

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

See page 31 for Key to Course Descriptions.

The Distribution Requirement status (see page 25) is listed below each course description.

USA300YI 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 271YI/ENG 250YI/POL 203YI

Exclusion: USA 200YI

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

Faculty

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 (UTM)
J. Mavalwala, M Sc, Ph D
F.J. Melbye, MA, Ph D (UTM)
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)
R.M. Vanderburgh, MA, Ph D (UTM)

Professor and Chair of the Department

H.V. Luong, MA, Ph D

Professors

E.B. Banning, MA, Ph D (U)
D.R. Begun, MA, Ph D
J.P. Boddy, MA, Ph D (S), FRSC
G.G. Coupland, MA, Ph D
G.W. Crawford, MA, Ph D (UTM)
M. Danesi, MA, Ph D, FRSC
M.J. Lambek, MA, Ph D, FRSC (S)
T. Li, MA, Ph D
S.K. Pfeiffer, MA, Ph D
B.A. Sigmon, MS, Ph D (UTM)
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 (UTM)
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)
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 (UTM)
K. Sieciechowicz, MA, Ph D (U)
D.G. Smith, MA, Ph D (UTM)

Assistant Professors

J. Barker, MA, Ph D
S. Lehman, MA, PhD
H. Miller, MA, PhD (UTM)
V. Napolitano-Quayson, AM, Ph D

E. Parra, BS, Ph D (UTM)
T.L. Rogers, MA, PhD (UTM)
M. Roksandic, MA, DEA, Ph D
T. Sanders, MA PH D (UTM)
M. Schillaci, MA, PH D (S)
W.C. Sung, MA, Ph D
H. Wardlow, MA, Ph D, MPH

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.

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

Anthropology

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 250Y1/260H1/BOT251Y1/CHM220H1/247H1/ENV234Y1/235Y1/GGR201H1/GLG 217H1/HMB 200H1/201H1/202H1/265H1/NFS284H1/NRS201H1/202H1/PSL201Y1/ZOO214Y1/215H1/252Y1/263Y1/265Y1

2. One of: STA220H1/221H1/JBS229H1/GGR271H1/PSY201H1/202H1
3. Two of ANT326Y1/333Y1/334Y1/337Y1
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, 419H; BIO319H1, 321H1, 323H1, 324H1, 328H1, 365H1, 428H1; GGR272H1, 273H1; GLG206H1, 216H1, 217H1, 360H1, 436H1; HMB300H1, 302H1, 310H1, 420H1; MGY312H1; NFS382H1, PSL302Y; ZOO332H1, 362H1, 462H1

Major program:

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

First Year:

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

Higher Years:

1. ANT 203Y1
2. At least 2 courses from ANT326Y1, 333Y1, 334Y1, 337Y1
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, 319Y1, 406H1, 409H1, 410H1, 411H1, 412H1, 415Y1, 417H1, 419H1, 420H1, 431H1, 497Y1/498H1/499H1; ARH 305H1, 312Y1, 360Y1, 361H1; ARH 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, 337Y1, 429H1, 430H, 431H1, 434H1, 436H1, 471H1, 481H1, 497Y1/498H1/499H1

Group D: (Social-Cultural)

ANT 204Y1, 299Y1, 322H1, 325Y1, 341Y, 342H1, 343Y1, 344Y1,

346HI, 347YI, 348YI, 349HI, 350H, 362YI, 363YI, 364YI, 365HI, 366HI, 367YI, 368HI, 426HI, 440HI, 442HI, 444YI, 445HI, 446YI, 447HI, 448HI, 450HI, 452HI, 453HI, 454HI, 455YI, 457H, 458H, 459H, 460H, 461YI, 480HI, 497YI/498HI/499HI; JAG 321HI; NEW252HI

Aboriginal Studies - See Aboriginal Studies

Archaeological Science & Archaeology - See Archaeology

Environmental Anthropology Minor- See Centre for Environment

Past Environments Specialist - See Centre for Environment

Anthropology Courses

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

Anthropology Social Science Courses

See page 31 for Key to Course Descriptions.

SSCI99HI/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 45.

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 45 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

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, 317HI
Prerequisite: ANT200YI

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 204YI

ANT323YI Social Theory through Popular Culture 52L, 26T
Theories of culture and society, with examples from North America and global popular culture.
Prerequisite: ANT204YI/ANT253HI/VIC120YI/one other 200+ course in ANT/SOC

ANT325YI Southern Africa: Comparative Societies and Institutions 52L
The Southern African peoples before, during, and after their domination by colonial regimes. Reserve systems, migratory labour, farm labour, urban life and social stratification.
Prerequisite: ANT204YI
Exclusion: ANT325HI

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: ANTI00YI/LINI00YI

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,

Anthropology

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

Prerequisite: ANT204Y1/ANT253H1/VIC120Y1/one of 200+ series "Y1" 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: ANT204Y1

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 204Y1

ANT342HI Sexuality and Global Health 26L

Interrogation of definitions of "sex" and "sexuality" employed within public health science arenas that confront three overlapping areas of global concern: HIV/AIDS, fertility and family planning, and sex-trade work. Draws on contributions in medical anthropology, gay and lesbian studies, and postcolonial studies.

Prerequisite: ANT204Y1

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: ANT204Y1

ANT344YI Anthropology of Southeast Asia 52L

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

Prerequisite: ANT204Y1

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: ANTI00Y1/204Y1

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: ANT204Y1

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: ANT204Y1

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: ANT204Y1

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: ANT204Y1

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: ANT204Y1/ANT253H1/NEW261Y1/ SOC200Y1/214Y1/215Y1

ARH360YI Prehistory of the Near East 52L

See Archaeology

ARH361HI Field Archaeology TBA

See Archaeology

ANT362YI Anthropological Studies of Poverty, Social Inequality and the U.S. State 52L

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 204Y1

ANT363YI Anthropology of State Societies 52L, 26T

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: ANT363H1

Prerequisite: ANT204Y1

ANT364YI Environment & Globalization 52L

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 204Y1

ANT365HI Native America and the State 26L (formerly ANT365YI)

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: ANT204Y1

Exclusion: ANT 365Y1

ANT366HI Anthropology of Social Movements: Theory and Method (formerly ANT 366YI) 26L, 13T

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: ANT204Y1

Exclusion: ANT366Y1

ANT367Y1 Indigenous Spirituality 52L

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: ANT204Y1/RLG201Y1

ANT368HI Ethnography & Social Movements 26L

This course focuses on ethnographic studies of social movements produced both by anthropologists and social 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 204Y1

ANT395Y0/ Special Topics in Anthropology 52S 396Y0

Studies in anthropology taken abroad. Areas of concentration vary depending on the instructor and year offered.

Recommended Preparation: ANT 100Y1/204Y1

ANT398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 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)

Prerequisite: Completion of LIN322HI, 331HI except for students in their final year where LIN331HI is a corequisite.

ANT406HI Lithic Analysis 26L, 13P

Core reduction strategies, replication, experimental archaeology, use-wear, design approaches, ground stone, inferring behaviour from lithic artifacts.

Prerequisite: ANT200Y1, ARH312Y1, 305HI

ANT409HI Archaeology of Landscapes & Regions 26L, 13P

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

ANT410HI Hunter-Gatherers Past & Present 26S

Examines the diversity of recent hunter-gatherer societies, as a source of analogues for understanding the archaeological record of past foraging peoples.

Prerequisite: ARH305HI

ANT411HI Advanced Archaeological Theory 26S

Seminar in the critical examination of major schools of archaeological thought.

Prerequisite: ARH305HI

ANT412HI Historical Archaeology 26L, 13P

Introduces the problems, methods and some of the material culture of colonial and industrial archaeology with emphasis on Canada and colonial America. Covers the use of documentary evidence, maps, architecture, and a variety of artifact classes.

Prerequisite: ANT200Y1/HIS374HI/384HI

ANT415YI Laboratory in Faunal Archaeo-Osteology 52S, 52P

Examination and interpretation of faunal material from archaeological sites as evidence for culture.

Prerequisite: ARH312Y1

ANT417HI Archaeology of Settlements & Households 26L

Methods for studying the socio-spatial aspects of the archaeological evidence for households and communities.

Prerequisite: ANT200Y1, ARH305HI

ANT419HI Current Debates in Palaeolithic Archaeology 26S

Current research in Palaeolithic Archaeology reflecting emerging issues.

Prerequisite: ANT 200Y1 or ANT 203Y1

ANT420HI Archaeology of Inequality 26L

How social complexity is manifested in the archaeological record. Origins and evolution of prehistoric complex societies, from small-scale chiefdoms to large-scale states.

Prerequisite: ANT200Y1, ARH305HI

Recommended preparation: ANT363Y1

ANT425HI Language in Anthropological Thought 26L

How ideas about language fit into the overall views of humankind as expressed by selected anthropologists, linguists, sociologists, and philosophers.

Exclusion: ANT425Y1

Prerequisite: ANT204Y1/ ANT253HI

ANT426HI Orientalism: Western Views of the Other 39L

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: ANT323Y1/329Y1/any 300-level course in INI/VIC/NMC/Jewish Studies

ANT427HI Language, Ideology, & Political Economy 26S

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: ANT204Y1/ANT253HI

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

Anthropology

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.

ANT440HI Society in Transition 26L

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

ANT442HI Anthropology and New Technologies 26L

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

ANT444YI Research Methods in Social & Linguistic Anthropology 52S

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

ANT445HI Science as Culture and Practice 26S

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

ANT446YI Social Anthropology of Western Europe 52L

The extent to which the conventional methods of ethnography can be helpful in understanding the European Union and its member states, is examined. European history and the ethnographic study of fieldsites take up the first term; current European social/cultural ideas and political movements are addressed in the second term.

Prerequisite: ANT204YI

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 (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

ANT457HI Intellectuals and Engaged Anthropology 26L

The course examines the responsibilities and positionality of professional anthropologists vis a vis politics and society by juxtaposing their concerns with the history of politically engaged intellectuals over the past century.

Prerequisite: ANT204YI

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

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.

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: ANT204YI/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

See page 31 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: ANT100YI/BIO150YI

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: JPA300YI

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: JPA300YI
Prerequisite: Any 1st-year Physics course/permission of instructor
Co-requisite: JPA305HI

ANT326YI Human Evolutionary Anatomy 26L, 39P (formerly ANT 332YI)

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: ANT332YI
Prerequisite: ANT203YI

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: ANT203YI

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: ANT203YI
Recommended preparation: ANT326YI, 334YI; BIO150YI

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.

Anthropology

Prerequisite: ANT203YI

ANT337YI Human Population Biology 52L

Discussion of biological diversity of human populations according to climatic, nutritional, disease and demographic variables. From an ecological perspective, emphasis on evaluating the role of various factors (genetic, environmental and cultural) influencing population biology and on understanding the significance of human population variation.

Prerequisite: ANT203YI/BIO150YI

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: JPA300YI/(JPA305HI, 310HI)

ANT415YI Laboratory in Faunal Archaeo-Osteology 52S, 52P

Examination and interpretation of faunal material from archaeological sites as evidence for culture.

Prerequisite: ARH312YI

**ANT429HI Palaeoanthropology 26L, 52P
(formerly ANT429YI)**

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: ANT429YI, ANT 332Y5 (UTM), ANTC17H3 (Scarb)

Prerequisite: ANT203YI, ANT326YI

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: ANT203YI

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 26L, 13P
in the Past**

Advanced exploration of the life histories of past populations, through the application of palaeodietary analyses, palaeopathology and other appropriate research methods.

Prerequisite: ANT334YI

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: ANT203YI

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.

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

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

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)

Specialist Program:

(10.5 full courses or equivalent, including at least one 400+series course)

First Year:

1. ANT 200Y1
2. One of: ANT 100Y1/CLA 160HI/GGR 100Y1/NMC 101Y1. If CLA160HI 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 203Y1/204Y1; CLA 230HI, 231HI; FAH 206HI, 207HI; NMC 260Y1

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 311Y1/ARH 361HI/NMC 261Y1. If ARH 361HI is taken, an additional ANT half-credit is required.
4. Lab Requirement: ARH 312Y1/JPA (305HI, 310HI)

Prehistoric Archaeology (Arts program)

Major Program:

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

First Year:

ANT 100Y1

Second Year:

ANT 200Y1

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 311Y1/ARH 361HI/NMC 261Y1/ARH 312Y1/JPA 305HI, 310HI

Archaeological Science (Science program)

Specialist Program:

(12 full courses or equivalent, including at least one 400+series course)

First Year:

1. ANT 200Y1
2. One of: ANT 100Y1/GGR 100Y1/GLG (102HI, 110HI)
3. One of: BIO 150Y1/CHM (138HI, 139HI)/MAT 135Y1/137Y1/157Y1/PHY 110Y1/138Y1/140Y1

Second Year:

1. ARH 305HI
2. ENV 236Y1
3. One full course equivalent from: BOT 202Y1/251Y1; CHM 217HI; GGR 201HI, 205HI/270HI/272HI, 273HI; GLG 206HI/207HI/216HI/ 217HI; ZOO 214Y1/252Y1/263Y1

Third and Fourth Years:

1. One course from Group A

Archaeology

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
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; BIO 323HI, 324HI
5. Paleoethnobotany: BOT 300HI, 307HI, 310HI; 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, 319Y1, 365HI
8. Old World Prehistory: ANT 419HI; ARH 360Y1; GGR 310HI

Archaeology Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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 45 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

A Collaborative Program of the Faculty of Arts & Science and the Faculty of Architecture, Landscape, and Design

Faculty

Program Director and Assistant Professor

A. Payne, PhD, BA, MA

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

S. T. Fong, B Arch, M Arch

T. Kesik, MA Sc, Ph D

R. Levit, BA, M Arch

A. T. Liu, BA, M Arch

P. Petricone, B Arch, M Arch

B. S. Shim, BES, B Arch

J. Shnier, BES, B Arch

F. Urban, MA, BFA, PGS

Assistant Professors

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.

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 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.

Architectural Studies

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 205HI, 261HI, 274HI, 278HI, 279HI, 300HI, 302HI, 309HI, 316HI, 325Y0, 328HI (formerly FAH 369HI), 362HI, 364HI, 370HI (formerly FAH 324HI), 371HI (formerly FAH 355HI), 372HI, 373HI, 374HI (formerly FAH 382HI), 375HI, 376HI, 380HI, 400HI, 404HI, 405HI, 410HI, 413HI, 421HI, 442HI, 470HI, 471HI, 477HI (formerly FAH 377HI); NMC 392HI
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 205HI, 261HI, 274HI, 278HI, 279HI
 - 1.0/1.5 FCEs from: ARC 431HI, 432HI, 433HI, 437HI, 438HI; NMC 392HI; FAH 300HI, 302HI, 309HI, 316HI, 325Y0, 328HI (formerly FAH 369HI), 362HI, 364HI, 370HI (formerly FAH 324HI), 371HI (formerly FAH 355HI), 372HI, 373HI, 374HI (formerly FAH 382HI), 375HI, 376HI, 380HI, 400HI, 404HI, 405HI, 410HI, 413HI, 421HI, 442HI, 470HI, 471HI, 477HI (formerly FAH 377HI)

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 257YI, 267HI, 269YI, 290YI, 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 325Y0; GGR 124YI, 220YI, 339HI, 361HI; HIS 304YI; INI 235YI, 306YI, 307YI, 430YI, 446HI; JPF 455YI

Group C (Environ):

ENV 200YI, 321YI; GGR 107YI, 233YI; INI 332HI, 335HI, 446HI; JIE 222YI

Group D (Sci/Tech):

HPS 201HI, 202HI, 306HI, 307HI, 430HI, 431HI

Group E (Media):

INI 115YI, 322HI, 325YI, 428HI; VIC 120YI, 220YI, 320YI, 420YI

Architectural Studies Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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.

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: ARC131HI, 132HI; 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 introductory course 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/ 399Y0 Independent Experiential Study Project

An instructor-supervised group project in an off-campus setting. See page 45 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

Architectural Studies

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: ARC131HI, 132HI; 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 281HI, 282HI; 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

Dr. David Chu Program in Asia-Pacific Studies

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. For current developments, please check the Program's University web site (www.utoronto.ca/davidchu).

Dr. David Chu Program in Asia-Pacific Studies

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 2.0 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

See page 31 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

Faculty

Professors Emeriti and Directors Emeriti of the David Dunlap Observatory

J.D. Fernie, M Sc, Ph D, FRSC
D.A. MacRae, AM, 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

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 (S)
C.T. Bolton, M Sc, Ph D, FRSC
C.C. Dyer, M Sc, Ph D (S)
L. Kofman, BS, Ph D †
J.B. Lester, MS, Ph D (UTM)
N.W. Murray, BS, Ph D †
J. R. Percy, B Sc, MA, Ph D (UTM)
M.H. van Kerkwijk, MA, Ph D

Associate Professors

R. G. Abraham, B Sc, D Phil
C.M. Clement, B Sc, MA, Ph D
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 †
S.M. Rucinski, M Sc, Ph D
A.C. Thompson, BS, Ph D †

Assistant Professors

W.H. Clark, MA, Ph D
J.J. Dubinski, M Sc, Ph D
C.D. Matzner, AB, MA, Ph D
D-S. Moon, Ph D
R.R. Rafikov, BSc, MS, PhD †
Y.Wu, Ph D

† Cross-appointed

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 our 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 121H and AST 251H 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)

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 PHY252H1 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, 425HI; 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

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 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all AST courses are classified as SCIENCE courses (see page 25).

SC1199HI/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 45.

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, PHY201HI, 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, 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 Solar System and Stellar Astronomy 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 Galactic and Extragalactic Astronomy 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

AST299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 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

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 326Y1
Prerequisite:AST221HI/222HI, PHY251HI/252HI/255HI/256HI

AST326Y1 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 45 for details.

AST420HI Topical Astrophysics 26L

Discussion of topics of current interest in astrophysics. Possible topics include accretion disk physics, compact object physics, spiral structure in galaxies, dark matter physics, black-body physics.
Prerequisite:PHY351HI, 355HI

AST425HI Research Topic in Astronomy TBA

A research report by the student in consultation with an individual staff member in the Department. 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, 315HI, 325Y1/326HI, 351HI, 352HI, 353HI, 355HI, 357HI, 358HI, 59HI
Co-requisite:AST420HI or Prerequisite:AST325HI

Biochemistry: see Life Sciences: Biochemistry

Bioethics: see Philsoophy

Bioinformatics & Computational Biology: see Life Sciences: Biochemistry

Biology: see Life Sciences: Biology

Book & Media Studies: see St. Michael's College

Botany: see Life Sciences: Botany

Canadian Studies: see University College

Caribbean Studies: see New College

Celtic Studies: see St. Michael's College

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 (UTSC)
R.A. McClelland, B Sc, Ph D, FRSC (UTSC)
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 (UTM)
W.F. Reynolds, M Sc, Ph D
E.A. Robinson, B Sc, Ph D, D Sc (UTM)
G.H. Schmid, B Sc, Ph D, FCIC
I.W.J. Still, B Sc, Ph D, D Sc (UTM)
J.C. Thompson, BA, Ph D (UTSC)
T.T. Tidwell, B Sc, AM, Ph D, FRSC (UTSC)
J.P. Valteau, MA, Ph D (I)
A. Walker, B Sc, Ph D (UTSC)
S.C. Wallace, B Sc, Ph D
K. Yates, M Sc, Ph D, D Phil, FRSC (U)

Professor and Chair of the Department

S.A. Mabury, BS, Ph D (U)

Professor and Associate Chair (Graduate)

J.P. Abbatt, B Sc, Ph D

Professor and Associate Chair (Undergraduate)

G.A. Woolley, B Sc, Ph D

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. Chin, M Sc, Ph D
D.J. Donaldson, B Sc, Ph D (UTSC)
D.H. Farrar, M Sc, Ph D
M. Georges, B Sc, Ph D (UTM)
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 (UTM)
E. Kumacheva, M Sc, Ph D
M. Lautens, B Sc, Ph D, FCIC, FRSC (T)
P.M. Macdonald, M Sc, Ph D (UTM)
I. Manners, B Sc, Ph D, FRSC
R.J.D. Miller, B Sc, Ph D, FRSC
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
G. Walker, BA, Ph D
S.G. Whittington, MA, Ph D (T)

Associate Professors

R.A. Batey, BA, Ph D
A. Dhirani, M Sc, Ph D
S.J. Fraser, BA, Ph D (UTSC)
D. Lidar, M Sc, Ph D
J. Schofield, BA, Ph D
G.D. Scholes, B Sc, Ph D
F. Wania, B Sc, Ph D (UTSC)
A. Yudin, BS, Ph D

Assistant Professors

U. Fekl, M Sc, Ph D (UTM)
B. Jockusch, BA, Ph D
D. McMillen, MA Sc, Ph D (UTM)
M. Nitz, B Sc, Ph D
S. Prosser, M Sc, Ph D (UTM)
J. Shin, AB, Ph D (UTM)
A. J. Simpson, B Sc, Ph D (UTSC)
A. Wheeler, B Sc, Ph D
D.B. Zamble, B Sc, Ph D

Senior Lecturers

C.S. Browning, M Sc, Ph D (SM)
C.M. Kutas, B Sc
D. F. McIntosh, B Sc, Ph D
H.O. Ohorodnyk, M Sc
J.C. Poë, ARCS, M Sc, DIC, FCIC (UTM)
J. Potter, BSc, M Sc (UTSC)
W. Restivo, B Sc (UTSC)
S. Skonieczny, D Sc, Ph D
Lin Teo, B Sc (UTSC)
A. Verner, BSc, M Sc (UTSC)

Lecturers

A.P. Dicks, B Sc, Ph D
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.

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.

Chemistry

CHM151Y1 is the course that is strongly recommended for all students who will be following one of the specialist programs involving chemistry, or who will be including a substantial amount of chemistry in their eventual programs of study.

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. They are also the most appropriate courses for students applying for entry into professional programs. 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 <http://www.chem.utoronto.ca/underinfo>. 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

Biological Chemistry (Science program)

Consult Professor A. Woolley, 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/(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 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/(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, 314Y1/317HI, 338HI, 348HI
3. Further 400-series half-courses in CHM/PHY to make a total of 14 full courses

Chemistry (Science program)

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/(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, 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/(138HI, 139HI); MAT 135Y1/137Y1

Second Year: At least two of CHM 217HI, 220HI/225Y1, 238Y1, 247HI/249HI

Third Year: At least two of CHM 314Y1/317HI, 327HI, 338HI, 346HI/348HI, 379HI

Fourth Year: Further 200/300/400-level CHM courses to make a total of seven CHM full course equivalents (CHM 200Y1, 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

Third Year: At least one of CHM 314Y1/317HI, 327HI, 338HI, 348HI, 379HI

Fourth Year: Further 200/300/400-level CHM courses to make a total of four CHM full course equivalents (CHM 200Y1 excluded)

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/(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, 338HI, 314Y1/317HI/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. Abbatt, Department of Chemistry

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.artsandscience.utoronto.ca/current

Specialist program:

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

First Year: BIO 150Y1; CHM 151Y1/(138HI, 139HI); MAT 135Y1/137Y1; PHY 138Y1/140Y1

Second Year: CHM 217HI, 225Y1, 238Y1, 247HI/249HI; ENV 235Y1

Third and Fourth Years:

1. CHM 310HI, 410HI, 415HI; ENV 234Y1, ENV321Y1/JIE 222Y1
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 in Environmental Chemistry - See Centre for Environment

Materials Chemistry Program - See Materials Science

Pharmaceutical Chemistry - See Pharmaceutical Chemistry

Planetary Science Program - See Planetary Science

Chemistry Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all CHM courses are classified as SCIENCE courses (see page 25).

SC1199HI/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 45.

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. 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; PHY138Y1/140Y1 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.

NOTE: CHM138HI and 139HI may be taken in either order, but not both in the same session.

Exclusion: CHM 151Y1, CHMA10H3, CHMA11H3
Prerequisite: Chemistry SCH4U, Mathematics MCB4U
Co-requisite: MAT 135Y1/137Y1/157Y1 recommended, but may be required pre-requisite in 2nd year Chemistry courses; PHY138Y1/140Y1 recommended

CHM151Y1 Chemistry: The Molecular Science 78L, 35P, 26T

An introduction to the major areas of modern chemistry, including (1) organic and biological chemistry, (2) physical chemistry and chemical physics, (3) inorganic and materials chemistry. The course is intended for students specializing in chemistry or a related science. The combination of CHM151Y1 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 the same afternoon of alternate weeks.

Exclusion: CHM (138HI, 139HI), CHM140Y5, CHMA10H3, CHMA11H3

Prerequisite: Chemistry SCH4U, Mathematics MCB4U; Physics SPH4U recommended

Co-requisite: MAT 135Y1/137Y1/157Y1; PHY138Y1/140Y1

CHM200Y1 The Role of Chemistry in Modern Society 52L

Human beings are constructed physically of chemicals, live in a sea of chemicals and are very dependent for their material quality of life on the modern chemical industry. This course is especially for non-science students who wish to develop a better understanding of the impact and importance of chemistry in industry, society and the environment. The course should be of particular interest to students with interests in economics, commerce, management, politics, psychology and teaching. Not offered in 2005-2006.

Exclusion: Students who have taken one or more university-level courses in chemistry require permission of the instructor.

Prerequisite: completion of 5 full courses at the university level

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 65%, 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.

Exclusion: CHM 225YI, 221H5

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, 221H5

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

Directed to students in the Chemistry major and specialist programs. Topics: introductory thermodynamics, first and second law and applications; chemical equilibrium; chemical kinetics; introductory quantum mechanics; spectroscopy.

Exclusion: CHM 220HI, 221HI, 221H5

Prerequisite: [CHM(138HI, 139HI)/151YI with a minimum grade of 65%, 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 65%, 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. 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 65%, or permission from the department

CHM299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 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 65%, 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

CHM345HI Modern Organic Synthesis 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. (This course is not allowed for students in any of the Chemistry specialist and major programs; they should consider CHM346HI instead.)

Exclusion: CHM346HI

Prerequisite: CHM247HI/249HI

CHM346HI Modern Organic Synthesis 26L, 52P

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. (Students who are not in one of the Chemistry specialist or major programs should consider taking CHM345HI instead of this course.)

Exclusion: CHM345HI

Prerequisite: A minimum grade of 65% in CHM249HI/247HI

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 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: CHM247HI/249HI

CHM348HI Organic Reaction Mechanisms 26L, 26P

This course provides a comprehensive overview of one of the most fascinating aspects of modern chemistry – the logic and mechanistic basis for understanding the chemical transformations of organic molecules. The main goal of this course is to teach problem solving techniques related to such transformations from a mechanistic point of view.

Prerequisite: CHM247HI/249HI with a minimum grade of 65%, or permission from the department

CHM379HI 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: BCH370HI, BCH 371HI

Prerequisite: (CHM247HI/249HI, 347HI with a minimum grade of 65%, or permission from the department), BCH 210HI

Recommended preparation: CHM217HI

CHM398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

CHM409YI 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: CHM418YI/428YI/439YI/449YI

Prerequisite: Permission of Department

Recommended preparation: CHM314YI/317HI

CHM410HI 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: CHM310HI
Recommended preparation: CHM314Y1/317HI

CHM414HI 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: CHM217HI/314Y1/317HI

CHM415HI 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: CHM220HI/225Y1/310HI
Recommended preparation: MAT135Y1/137Y1; PHY138Y1/140Y1

CHM416HI 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: CHM314Y1/317HI

CHM417HI 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: CHM317HI

CHM418YI 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: CHM314Y1/317HI

CHM421HI 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 (326HI, 328HI)

CHM423HI 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: CHM326HI

Recommended preparation: MAT223HI

CHM426HI 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: CHM325HI; two of CHM328HI, 338HI, 348HI/
permission of the instructor

CHM427HI 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: CHM409Y1/418Y1/439Y1/449Y1

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: CHM 338HI, 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:

Inorganic Specialist students: CHM 238Y, 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: CHM345HI/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: CHM345HI/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: CHM346HI/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

Christianity & Culture: see St. Michaels' College

Cinema Studies: see Innis College

Classical Studies includes Greek, Latin, Greek and Latin Literature in Translation, and Greek and Roman History.

Faculty

Professors Emeriti

R.L. Beck, AM, Ph D (UTM)
A. Dalzell, B Litt, MA
J.N. Grant, MA, Ph D
G.L. Keyes, MA, Ph D
Rev. M.O. Lee, 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
E. Samuel, MA, Ph D
R.M.H. Shepherd, MA
D.F.S. Thomson, MA
J.S. Traill, AM, Ph D

Professor and Chair of the Department

B.C. Inwood, MA, Ph D, FRSC (Canada Research Chair)

Professor and Associate Chair, Graduate Affairs

C.F.M. Bruun, 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
A.M. Keith, MA, Ph D
J.C. Magee, MA, Ph D
C.J. McDonough, 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 (UTM)
M.B. Wallace, MA, Ph D

Assistant Professors

A.E. Bendlin, D Phil (UTM)
M. Cottier, D Phil
M. Revermann, MA, Ph D (UTM)

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.

- 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)

- CLA160HI
- 5.5 FCEs of CLA courses at the 200+ level, including at least 2 FCEs at the 300+ level

Minor program:

(4 FCEs)

- CLA160HI
- 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 FCE of CLA courses, including CLA160HI
- 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 FCE of CLA courses, including CLA160HI
- 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 FCE of CLA courses, including CLA160HI
- 4 FCEs of GRK courses; 2 FCEs must be at the 300+ level, and include GRK330HI
- 1 additional FCE of CLA/GRK/LAT courses

Minor program:

(4 FCEs)

- 1 FCE of CLA courses, including CLA160HI
- 3 FCEs of GRK courses, of which at least 1 must be a 300+ series course

Latin (Arts program)

Major program:

(6 FCEs)

- 1 FCE of CLA courses, including CLA160HI
- 4 FCEs of LAT courses; 2 FCEs must be at the 300+ level, and include GRK330HI
- 1 additional FCE of CLA/GRK/LAT courses

Minor program:

(4 FCEs)

- 1 FCE of CLA courses, including CLA160HI
- 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 25), all CLA, GRK, and LAT courses are classified as HUMANITIES courses. See page 31 for Key to Course Descriptions.

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 45.

Classical Civilization Courses

NOTE

CLA courses do not require knowledge of Greek or Latin.

CLA160HI Introduction to Classical Studies 39L
(formerly CLA160YI)

An introduction to major themes in the development of Greek and Roman civilization, literature and culture.

Exclusion: CLA160YI

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: CLA205YI

CLA206HI Ancient Astronomy 39L

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

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.

Classics

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 45 for details.

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 45 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

GRK352HI Tragedy I 39S

Readings from Aeschylus and Sophocles.

Exclusion: GRK452HI

Prerequisite: GRK202HI

GRK353HI Verse Authors I 39S

Readings from Greek verse (e.g., elegy, iambics, lyric).

Exclusion: GRK453HI

Prerequisite: GRK202HI

GRK354HI Koine Greek I 39S

Readings from Hellenistic and early Imperial Greek, with emphasis on Jewish and Christian texts.

Exclusion: GRK454HI

Prerequisite: GRK202HI

GRK428YI Independent Studies TBA

Prerequisite: Permission of Department

GRK429HI Independent Studies TBA

Prerequisite: Permission of Department

GRK440HI Plato II 39S

Advanced readings from one or more Platonic Dialogues.

Exclusion: GRK340HI

Prerequisite: One FCE in the GRK300-series

Co- or prerequisite: GRK330HI

Classics

- GRK441HI Herodotus II 39S**
Advanced readings from Herodotus' Histories.
Exclusion: GRK341HI
Prerequisite: One FCE in the GRK300-series
Co- or prerequisite: GRK330HI
- GRK442HI Thucydides II 39S**
Advanced readings from The Peloponnesian War.
Exclusion: GRK342HI
Prerequisite: One FCE in the GRK300-series
Co- or prerequisite: GRK330HI
- GRK443HI Prose Authors II 39S**
Advanced readings from Greek prose (e.g., oratory, novels).
Exclusion: GRK343HI
Prerequisite: One FCE in the GRK300-series
Co- or prerequisite: GRK330HI
- GRK450HI Epic II 39S**
Advanced readings from Greek epics, including Homer.
Exclusion: GRK350HI
Prerequisite: One FCE in the GRK300-series
Co- or prerequisite: GRK330HI
- GRK451HI Drama II 39S**
Advanced readings from Euripides and Aristophanes.
Exclusion: GRK351HI
Prerequisite: One FCE in the GRK300-series
Co- or prerequisite: GRK330HI
- GRK452HI Tragedy II 39S**
Advanced readings from Aeschylus and Sophocles.
Exclusion: GRK352HI
Prerequisite: One FCE in the GRK300-series
Co- or prerequisite: GRK330HI
- GRK453HI Verse Authors II 39S**
Advanced readings from Greek verse (e.g., elegy, iambic, lyric).
Exclusion: GRK353HI
Prerequisite: One FCE in the GRK300-series
Co- or prerequisite: GRK330HI
- GRK454HI Koine Greek II 39S**
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

Latin Courses

- LAT100YI Introductory Latin 104S**
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.
- LAT102HI Introductory Latin: Continuation 52S**
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.
- LAT201HI Intermediate Latin I 52S**
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.

- LAT202HI Intermediate Latin II 52S**
Continued language training with readings in Latin prose and verse.
Prerequisite: LAT201HI

300-Series Courses

Notes

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.

- LAT322HI Mediaeval Latin I 39S**
A survey of the prose and poetry of the Middle Ages with emphasis on the linguistic features of mediaeval Latin.
Prerequisite: LAT202HI

- LAT323HI Mediaeval Latin II 39S**
Study of a wide variety of mediaeval Latin texts.
Prerequisite: LAT202HI

- LAT330HI Advanced Latin Language Study 39S**
A course designed to enhance language skills. Prose composition, sight translation, stylistic analysis of Latin prose.
Prerequisite: LAT202HI

- LAT340HI Latin Novelists I 39S**
Readings from one or more Latin novelists.
Exclusion: LAT440HI
Prerequisite: LAT202HI

- LAT341HI Latin Historians I 39S**
Readings from one or more Latin historians.
Exclusion: LAT441HI
Prerequisite: LAT202HI

- LAT342HI Latin Orators I 39S**
Readings from Latin orators, including Cicero.
Exclusion: LAT442HI
Prerequisite: LAT202HI

- LAT343HI Prose Authors I 39S**
Readings from Latin prose authors (e.g. biography, letters, philosophy).
Exclusion: LAT443HI
Prerequisite: LAT202HI

- LAT350HI Epic I 39S**
Readings from one or more Latin epics, including Virgil.
Exclusion: LAT450HI
Prerequisite: LAT202HI

- LAT351HI Drama I 39S**
Readings from Latin comedy and/or tragedy.
Exclusion: LAT451HI
Prerequisite: LAT202HI

- LAT352HI Satire I 39S**
Readings from one or more Latin satirists.
Exclusion: LAT452HI
Prerequisite: LAT202HI

LAT353HI	Verse Authors I	39S
Readings from Latin verse (e. g. elegy, lyric, bucolic). Exclusion: LAT453HI Prerequisite: LAT202HI		
LAT428YI	Independent Studies	TBA
Prerequisite: Permission of Department		
LAT429HI	Independent Studies	TBA
Prerequisite: Permission of Department		
LAT440HI	Latin Novelists II	39S
Advanced readings from one or more Latin novelists. Exclusion: LAT340HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI		
LAT441HI	Latin Historians II	39S
Advanced readings from one or more Latin historians. Exclusion: LAT341HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI		
LAT442HI	Latin Orators II	39S
Advanced readings from Latin orators, including Cicero. Exclusion: LAT342HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI		
LAT443HI	Prose Authors II	39S
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		
LAT450HI	Epic II	39S
Advanced readings from one or more Latin epics, including Virgil. Exclusion: LAT350HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI		
LAT451HI	Drama II	39S
Advanced readings from Latin comedy and/or tragedy. Exclusion: LAT351HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI		
LAT452HI	Satire II	39S
Advanced readings from one or more Latin satirists. Exclusion: LAT352HI Prerequisite: One FCE in the LAT 300-series Co- or prerequisite: LAT330HI		
LAT453HI	Verse Authors II	39S
Advanced readings from Latin verse (e. g. elegy, lyric, bucolic). Exclusion: LAT353HI 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 38

Comparative Literature

Faculty

Professors Emeriti

L. Dolezel, MA, Ph D, FRSC
E. Kushner, MA, Ph D, FRSC
P.W. Nesselroth, MA, Ph D, Ch PA
B. Stock, AB, 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, Den Ph, Ch PA, FRSC

Associate Professor and Co-ordinator of Graduate Studies

J.A. Fleming, MA, Ph D

University Professors

J.E. Chamberlin, BA, Ph D, FRSC
L.A.M. Hutcheon, MA, Ph D, FRSC

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
B. Havercroft, MA, Ph D
S.J. Rupp, MA, Ph D

Assistant Professors

A. Budde, MA, Ph D
A. Komaromi, MA, Ph D
J. Ross, MA, Ph D
J. Zilcosky, 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

(See page 31 for Key to Course Descriptions)

JDC299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 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 45 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 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

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
A.B. Lehman, Ph D
R.A. Mathon, MSc, PhD (UTM)

Chair of the Department

C. Boutilier, M Sc, Ph D

Vice Chair

S. Dickinson, MS, Ph D

Associate Chair - Graduate Studies

R. Zemel, M Sc, Ph D

Associate Chair - Undergraduate Studies

D. Horton, M Sc

University Professor

S.A. Cook, AM, Ph D, DM, FRS, FRSC (T)

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
C. Boutilier, M Sc, Ph D
S.A. Cook, AM, Ph D, DM, FRS, FRSC, University Professor Emeritus
D.G. Corneil, MA, Ph D
S. Easterbrook, B Sc, Ph D
W.H. Enright, M Sc, Ph D (UTSC)
F.E. Fich, M Math, Ph D
E. Fiume, M Sc, Ph D
D. Fleet, M Sc, PhD (UTSC)
V. Hadzilacos, M Sc, Ph D (UTSC)
E.C.R. Hehner, M Sc, Ph D
G.E. Hinton, Ph D, FRS, FRSC
G. Hirst, M Sc, Ph D (UTSC)
K.R. Jackson, M Sc, Ph D
A.D. Jepson, B Sc, Ph D
H. Levesque, M Sc, Ph D
L. Libkin, MS, Ph D
R. Miller, MS, Ph D
M. Molloy, M Math, Ph D (UTSC)
R. Neal, B Sc, Ph D
J. Mylopoulos, M Sc, Ph D
T. Pitassi, M Sc, Ph D
C.W. Rackoff, SM, Ph D (UTM)
S. Toueg, MA, Ph D
D.B. Wortman, M Sc, Ph D

Associate Professors

R. Almgren, MS, Ph D
A.J. Bonner, M Sc, Ph D (UTM)
M. Chechik, MS, Ph D
C. Christara, MS, Ph D
J.N. Danahy, BLA, URP
S. Dickinson, MS, Ph D

S. Easterbrook, B Sc, Ph D
G.S. Graham, M Sc, MA, Ph D (UTM)
K. Kutulakos, M Sc, PhD
P.J. Marbach, M Sc, Ph D
S. McIlraith, Ph D
G. Penn, MS, Ph D
K. Singh, MS, Ph D
S. Stevenson, MS, Ph D
R. Zemel, M Sc, Ph D

Assistant Professors

R. Balakrishnan, M Sc, Ph D
M. Brudno, M.Sc. Ph.D
E. DeLara, MS, Ph D
A. Demke-Brown, M Sc, Ph D
A. Hertzmann, MS, Ph D
N. Koudas, M Sc, Ph D (UTSC)
A. Magen, M Sc, Ph D (UTM)
P.J. Marbach, M Sc, Ph D
G. Penn, MS, Ph D
S. Roweis, BAS, Ph D
S. Saroiu, MS, PhD (UTM)
K.N. Truong, Ph D

Senior Lecturers

G. Baumgartner, M Sc
M. Craig, M Sc
J.N. Clarke, M Sc, Ph D (V)
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
P. Gries, M Eng
D. Heap, B Sc, M Sc
K. Reid, M Sc

Cross Appointed

C. Amza, Ph D
A. Banerjee, B.Tech, Ph D
C. Beck, Ph D
A. Bilas, MA, Ph D
I. Blake, MA, MA Sc, Ph D
P.I.P. Boulton, 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
G. Gulak, M Sc, Ph D
A. Jacobsen, MS, Ph D
I. Jurisica, M Sc, Ph D
B. Li, M Sc, Ph D
D. Lie, Ph D
J. MacLean, Ph D

Computer Science

S. Mann, M Eng, Ph D
E. Mendelsohn M Sc, Ph D (UTSC)
A. Moshovos, M Sc, Ph D
M. Shub, Ph D
G. Steffan, MA Sc, Ph D
M. Stumm, MS (Math), Ph D
A.I.F. Urquhart, MA, Ph D
Z. Vranesic, MA Sc, Ph D
A. Veneris, M Sc, Ph D
J. Vicente, MS, Ph D
E. Yu, M Sc, Ph D
S.G. Zaky, MA Sc, Ph D

Adjunct Faculty

M. Black, MAsC, Ph D
W.A.S. Buxton, M Sc
G. Fitzmaurice, Ph D
G. Kurtenbach, M Sc, Ph D
I. Jurisica, M Sc, Ph D
T. McInerney, M Sc, Ph D
D. Penny, M Sc, Ph D
M. Reimers, M Sc, Ph D
M. Schraefel
J. Stewart, Ph D
D. Terzopoulos, Ph D
J. Tsotsos, M Sc, Ph D
M. van de Panne, Ph D
G. Wilson, Ph D
S. Zhou, M Sc, 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 computatively.

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.

The equipment and software available to students are up-to-date and accessible. On the St. George campus, networks of PC and Unix workstations support the computing needs of all our courses. In addition, some higher-level courses are based on laboratories.

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 17 for more information.

Associate Chair - Undergraduate Studies: D. Horton

Program Director: 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

Computer Science Programs

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 2006-2007 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

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

Computer Science

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 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 except ENG269Y1; GER235Y1, GER251Y1; HIS – any 100- or 200-level; HPS – all courses; HUM101Y1, HUM199H1/Y1; INI115Y1, INI202Y1, INI203Y1, INI204Y1, INI224Y1, INI225Y1, INI235Y1; 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; UNI130Y1, UNI201H1, UNI202H1, UNI310Y1; VIC120Y1; WRT300H1.

Courses not accepted to satisfy the writing requirement include SC1199H1/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 340H1
CSC 407H1, 408H1, 465H1
- III. *Information Systems*
CSC 309H1, 310H1
CSC 443H1

Human Factors and Graphics Area

- II. *Human Factors*
CSC 300H1, 318H1
CSC 428H1, 454H1
- II. *Graphics*
CSC 320H1
CSC 418H1

Artificial Intelligence Area

- I. Reasoning
CSC 384HI
CSC 486HI
- II. Language
CSC 401HI, 485HI
- III. Vision
CSC 420HI, 487HI
- IV. Learning
CSC 321HI
CSC 411HI, 412HI

Foundations Area

- I. Logic and Complexity
CSC 330HI
CSC 438HI, 448HI
- II. Numerical Analysis
CSC 351HI
CSC 446HI, 456HI
- 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 UNI250YI 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 237Y1/257Y1.
4. CSC 309HI, 310HI, 318HI/340HI.
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

(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. CSC 318HI, 340HI.
4. CSC 407HI, 408HI.
5. Two of CSC 354HI, 372HI, 320HI/321HI/330HI/384HI, 401HI, 454HI, 465HI; ECE 385HI.
6. Two of CSC 309HI, 418HI, 443HI, 458HI, 469HI; CSC 488HI / ECE 489HI.

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.

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 CSC 165HI/CSC 240HI, 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 340HI, 351HI, 354HI, 363HI/365HI, 373HI/375HI, 401HI, 407HI, 408HI, 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, 407HI, 408HI, 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.

Computer Science

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

Third or Fourth Years:

1. CSC 351HI, 363HI/365HI/373HI/375HI,
2. PHY 457HI/459HI/460HI,
3. CSC 401HI/407HI/408HI/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)

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

First Year:

CSC (108HI, 148HI)/150HI; MAT 137Y1/157Y1 (See the Notes following the list of Basic Courses in the Course Categories above.)

First or Second Year:

1. CSC 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 407HI, 408HI, 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

(15.5 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 200Y1

Third Year:

1. CSC 300HI, 318HI, 340HI
2. CSC 324HI/343HI
3. STA 248HI/PSY (201HI, 202HI)/SOC 300Y1
4. PSY 270HI, 280HI

Third or Fourth Year:

1. CSC 363HI/365HI/373HI/375HI, 428HI
2. Two of CSC 407HI/408HI, 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

Cognitive Science & Artificial Intelligence - See University College Programs

Linguistics and Computing- See Linguistics

Computer Science Courses

See page 31 for Key to Course Descriptions

For Distribution Requirement purposes (see page 25), all CSC courses are classified as SCIENCE courses.

NOTE: The University of Toronto at 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 are enforced. Please refer to the 2006-2007 Registration Handbook and Timetable for prerequisite waiver deadlines.

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 6, 2006

Winter session – February 2, 2007

INX199HI/YI First-Year Seminar 52S

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 45.

CSC104HI 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.

CSC108HI Introduction to Computer Programming 39L, 12T, 12P

Structure of computers; the computing environment. Programming in an object-oriented language such as Java. Program structure in an object-oriented language: classes, objects, methods, fields. Internal structure of methods: elementary data types, statements, control flow. Arrays;

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.

CSC120HI 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.

CSC148HI 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 in a language such as Java. Specifications. Analyzing the efficiency of programs. Recursion. This course assumes programming experience in an object-oriented language such as 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.

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.

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.

CSC150HI 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, Pascal 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

Computer Science

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.

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. Students may go to their college to drop down from CSC150HI to CSC108HI. See above for the drop down deadline.

CSC165HI Mathematical Expression and Reasoning for Computer Science 26L, 13T

Introduction to abstraction and rigour. Understanding, using and developing precise expressions of mathematical ideas, including definitions and theorems. Informal introduction to logical notation and reasoning. Representation of floating point numbers and introduction to numerical computation.

Exclusion: CSC236HI, 238HI, 240HI; MAT102H5 (UTM); 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.

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 POST sponsored by the Department of Computer Science. The University of Toronto at Mississauga Computer Science Minor is not a restricted subject POST. 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. Core topics: object-oriented design and programming; the role of scripting in the software development process; unit testing; version control; build management. Prerequisite: CSC148HI/150HI; CGPA 2.5/enrolment in a CSC subject POST.

Co-requisite: 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, 258HI/enrolment in Bioinformatics and Computational Biology (BCB) subject POST; CGPA 2.5/enrolment in a CSC subject POST.

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 POST.

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 POST.

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 POST.

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.

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 (UTSc).

Prerequisite: Any half-course on computing; 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.

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.

CSC340HI Requirements Engineering 26L, 13T

Theory, tools and techniques of problem analysis for software systems development, covering both information systems and control systems. Topics include: requirements specification, object-oriented analysis, business process modeling, and analysis of non-functional requirements. Prerequisite: CSC207HI/270HI, 236HI/238HI/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 26L, 13T and Computability

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 26L, 13T Complexity and Computability

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 high level software, such as Turing or C.

Prerequisite: CSC209HI; ECE385HI; 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 26L, 13T Design & Analysis

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 26L, 13T Artificial Intelligence

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; 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

CSC407HI Software Architecture and Design 26L, 13T

An introduction to the development of system-level architectures and class-level object-oriented designs for software systems. Special emphasis on the study of architecture and design patterns: the core of solutions to commonly occurring design problems. Representations of design/architecture (with emphasis on the use of UML as a class-level design notation), architectural assessment, product lines, architecture extraction, and re-factoring. There is no major project, but there is a series of smaller design and architecture exercises requiring some programming. A knowledge of UML as used for requirements analysis and a working knowledge of Java are assumed.

Prerequisite: CSC340HI, 263HI/265HI/378HI; CGPA 3.0/enrolment in a CSC subject POSt.

CSC408HI Software Engineering 26L, 13T

The structure and unique characteristics of large software systems. The software process and software project management including project planning, risk management, staffing and organizational issues. Review of requirements analysis and specification. Software development techniques, version control, configuration management, system construction tools. Software system testing and quality assurance. Software maintenance and product delivery strategies. A course project is used to illustrate software engineering techniques.

Prerequisite: CSC340HI, 263HI/265HI/378HI; CGPA 3.0/enrolment in a CSC subject POSt.

Recommended preparation: Proficiency in C or C++; CSC209HI, 318HI, 407HI.

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: CSC407HI.

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; MAT137YI, 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, MAT137YI; CGPA 3.0/enrolment in a CSC subject POSt.

Recommended preparation: MAT237YI, 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/270HI, MAT137YI; 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, 248HI/250HI/261HI; 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/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; 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; CGPA 3.0/enrolment in a CSC subject POST.

Recommended preparation: CSC330HI/equivalent background.

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.

Computer Science

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. See www.cs.utoronto.ca/~csc490h for this year's topic themes and required preparation.

Prerequisite: Permission of the instructor; CGPA 3.0/enrolment in a CSC subject POST.

CSC494HI/ Computer Science Project 495HI TBA

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

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

Major program

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

1. DTS 201HI, 202HI
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.
- (4) Two 400-level capstone seminars (1.0 FCE). These courses are under development. Their specific course codes and titles will be published as soon as they are available.

Minor program

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

1. DTS 201HI, 202HI
2. Three full-course equivalents (FCEs) from Group A and B courses, with at least one FCE from each group.

Group A (Humanities) Courses

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.

English

ENG256YI Twentieth-Century North-American Jewish Literature

ENG277YI Introduction to African Canadian Literature

ENG279YI Chinese North American Literature in English

Fine Art History

FAH466HI Colonialism and Modernity in South Asian Arts

Finn-Ugric Studies

FIN320HI The Finnish Canadian Immigrant Experience

French

FRE332HI Francophone Literature I

FRE431HI Francophone Literature II

German

GER362HI Soviet and Kosher: Jewish Culture in the Soviet Union

GER364HI History of Yiddish Cinema

History

HIS206YI

Medieval History of the Jewish People

HIS208YI

Modern History of the Jewish People

HIS294YI

Caribbean History and Culture

HIS296YI

Black Freedom

HIS303YI

The Mediterranean, 600-1700: Crusade,

Colonialism, Diaspora

HIS305HI

Popular Culture and Politics in the Modern

Caribbean

HIS326YI

Chinese Migration

HIS352HI

Women and Gender in Modern Jewish History

HIS356HI

Zionism and Israel

HIS359HI

Regional Politics and Radical Movements in the

20th Century Caribbean

HIS360YI

African-Canadian History, 1606- Present

HIS370HI

The Black Experience in the United States Since the Civil War

Voices From Black America

HIS476YI

Voices From Black America

HIS394HI

South Asian Migration and Settlement

HIS417HI

Globalization, Science, and Technology

HIS446YI

Gender and Slavery in the Atlantic World

HIS456YI

Black Slavery in Latin America

HIS480HI

Modernity and its Others: History and

Postcolonial Critique

HIS487HI

Travelers and Scholars East/West

Innis College

INI327YI

Race and Representation

Italian Studies

ITA233YI

Ethnicity and Mainstream Italian Canadian Culture

ITA334HI

Italian Canadian Literature I: Life in a New World

ITA493HI

Italian Canadian Literature II

Near and Middle Eastern Civilizations

NMC274YI

Steppe Frontier in Islamic History

NMC357HI

Mass Media and/in the Middle East

NMC370YI

Ancient Israel

NMC385HI

Intellectuals of the Arab World

NMC475HI

Orientalism and Occidentalism

New College - African Studies

NEW150YI

Introduction to African Studies

NEW296YI

Black Freedom

New College - Caribbean Studies

NEW223YI

Caribbean Literature and Society

NEW224YI

Caribbean Thought I

NEW324YI

Caribbean Thought II

NEW325HI

Caribbean Women Thinkers

NEW326YI

Indenture, Survival, Change

New College - Equity Studies

NEW343H

The Romani Diaspora in Canada

New College - Women's Studies

NEW368HI

Gender and Cultural Difference: Transnational

Perspectives

NEW369YI

Studies in Post-Colonialism

Religion

RLG341HI

Dreaming of Zion: Exile and Return in Jewish Thought

RLG430HI

Jewish Culture in Medieval Latin, Greek, and Arabic Europe

Diaspora & Transnational Studies

St. Michael's College

SMC413HI	The Irish in Canada
SMC414HI	The Scots in Canada
SMC416HI	Irish Nationalism in Canada and the United States

Slavic Language and Literature

SLA238HI	Literature of the Ukrainian-Canadian Experience
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Spanish and Portuguese

SPA480HI	Theories of Culture in Latin America
SPA486HI	Contemporary Caribbean Literatures and Identities

Victoria College

VIC350YI	Creative Writing: A Multicultural Approach
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Group B (Social Sciences) courses

Anthropology

ANT347YI	Metropolis: Global Cities
ANT426HI	Orientalism: Western Views of the Other
ANT440YI	Global Society in Transition
JAP256HI	African Systems of Thought

Geography

GGR350HI	Canada in a Global Context
GGR363HI	Critical Geographies: An Introduction to Radical Ideas on Space, Society and Culture
GGR452HI	Space, Power, Geography: Understanding Spatiality

Political Science

POL349YI	Globalization and Urban Politics in Europe and North America
POL358YI	Post-Colonial Questions: Politics, Knowledge, Power
POL443HI	The Colonial State and its Forms of Power

Sociology

SOC218YI	Asian Communities in Canada
SOC341YI	The Jewish Community in Europe and North America
SOC344YI	Contemporary International Migration
SOC383HI	The Sociology of Women and International Migration

UTSC courses that can be applied to the program

Group A (Humanities) Courses

ENGB17H3	Contemporary Literature from the Caribbean
ENCC13H3	Ethnic Traditions in American Literature
ENGC70H3	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 UTSC as 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 UTSC as Group B courses.

UTM courses that can be applied to the program

Group A (Humanities) Courses

ENG272H5	Literature and Exile
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
SOC277Y5	Globalization
SOC332H5	Race and Ethnicity
SOC333H5	Race and Ethnicity II
SOC338H5	Global Diasporas
SOC353H5	Sociology of Globalization since 1945
SOC354H5	Global Sociology

Plus courses identified by UTM as Group B courses

Diaspora and Transnational Studies Courses

For Distribution Requirement purposes (see page 25), all DTS courses are classified as SOCIAL SCIENCE or HUMANITIES courses.

DTS 201HI Introduction to Diaspora and Transnational Studies I 26L

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.

DTS 202HI Introduction to Diaspora and Transnational Studies II 26L

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.

Prerequisite: DTS 201HI

Drama

Drama is sponsored by University College

Faculty

Professor and Director

P. Kleber, MA, Ph D

Professor

A. Iannucci, AM, Ph D

Associate Professor

A. Ackerman, MA, Ph D

Assistant Professors

A. Budde, MA, Ph D

A. Janson, MA

L. Katz, BA, Ph D

Adjunct Professors

T. Highway

D. Sears

Senior Lecturers

S. Bush

K. Gass, BA

Lecturers

C. Block

K. Lynch

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.library.utoronto.ca/uc/ucdp. The Program Director and Academic Undergraduate Secretary are also available for consultation. For enquiries or an appointment call the Drama Program Undergraduate Secretary at 416-978-8099 or send an e-mail to 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

Drama (Arts program)

Consult Professor P. Kleber, 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 one further Group B course (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 260HI, 262HI, 266HI, 268HI and 364HI
3. DRM 300Y1 and 301Y1
4. From Group C: one full-course equivalents
5. From Group D: one full-course equivalents
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 260HI, 262HI, 266HI, 268HI and 364HI
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 260HI, 262HI, 266HI, 268HI and 364HI
4. From Groups C and/or D: one and a half course equivalents

Option C

First Year: DRM 100YI

Higher Years:

1. DRM 254YI
2. DRM 354YI
3. From Group A: DRM 230YI and three of DRM 260HI, 262HI, 266, 268HI, and 364HI
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 100YI and one full-course equivalent from Groups C, D (below)
2. Two half-courses from Group A (excluding DRM 230YI and DRM 431YI)
3. One full-course equivalent from Groups A (excluding DRM 230YI and DRM 431YI), C, D or E

Note:

Students in the Minor program are not eligible for practical courses

Group A:

DRM 230YI, 260HI, 262HI, 266HI, 268HI, 364HI, 431YI, JDC 400HI, 410YI

Group B:

DRM 200YI, 201YI, 254YI, 300YI, 301YI, 328HI, 354YI, 400YI, 401HI, 402YI, 403YI; ENG 369YI (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 220YI, 223HI, 310HI, 330HI, 332YI, 334HI, 338YI, 339HI

Group D:

ABS 341HI; CLA 300YI, 382HI, 383HI; DRM 430HI: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 422YI; PRT 343HI; SLA 337HI, 406YI, 418HI, 476HI; SPA 452HI; UNI 202HI

Group E:

MUS 206HI; SLA 337HI, 424HI, 476HI

Other:

DRM 100YI, 390YI/391HI, 490YI/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 Professor P. Kleber, 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 200YI or DRM 254YI students may enrol in the double major in English and Drama; upon admission to an additional one of DRM 200YI, 254YI, 300YI, 354YI, 400YI, 402YI, ENG 369YI (playwriting section), 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 100YI, (b) DRM 200YI (with DRM 201HI as co-requisite)

Higher Years:

See Drama Major requirements.

Drama Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all DRM courses are classified as HUMANITIES courses.

DRM100YI 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.
Exclusion: ENG222YI

DRM200YI 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: DRM100YI or DRM230YI
Co-requisite: DRM201YI

DRM201YI Voice/Movement for the Actor I 91P (formerly DRM 201HI)

A voice and movement component, taken in conjunction with DRM200YI: Introduction to Performance. Work consists of both theory and practice of voice and movement as they relate to the development of the actor.
Prerequisite: Permission of University College Drama Program Committee
Co-requisite: DRM200YI

DRM230YI Concepts of Twentieth-Century Theatre 78L

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: DRM100YI

DRM254YI 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: DRM100YI
Co-requisite: DRM230YI

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

Drama

Athens in the 6th century B.C. to the decline of stage drama in Rome in the 1st century B.C. (Offered in alternate years)

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

DRM266HI History of Theatre from 1800 39L

The principal figures and movements in the development of European and North American theatre and theatre in selected non-western regions and countries including their cultural context. Changing styles and modes of acting, staging, costuming, and theatre architecture, and their relation to audiences, critics, and popular tastes. (Offered in alternate years)

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. (Offered every three years)

DRM281HI Latin American Theatre of Social Criticism 52L

The course aims to give students a panoramic view of the theatre of social criticism in Latin America. Students will read representative work written or staged from 1950-70, seen through the lens of Pedro Bravo-Elizondo, a critic of poverty and abuse in Latin America.

Prerequisite or co-requisite: DRM230Y

DRM299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 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/Movement for the Actor II (formerly DRM 301HI) 91P

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, permission of University College Drama Program Committee

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.

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

JDC400HI 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.

DRM401HI Voice and Movement III 91P

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

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
(formerly DRM401YI)**

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: DRM400YI

Exclusion: DRM401YI

JDC410HI New Approaches to Theatre History 52S

An upper level seminar in Theatre History. Topics vary from year to year.

Prerequisite: DRM230YI

**DRM430HI The Francesca Story in 39L
Nineteenth-Century Drama**

The 19th century produced some 60 dramatic versions of the Francesca story, first told by Dante. This course explores how four playwrights (Pellico, Boker, Crawford and D'Annunzio) reshaped and transformed the basic story according to their dramatic aims, sensitivity to characterization, and concern for practical staging.

**DRM431YI 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: DRM230YI, permission of University College Drama Program Committee

**DRM485YI/ Topics in Drama TBA
486HI**

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.

DRM486HI 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: DRM100YI, 200YI, 201YI and permission of department.

**DRM490YI/ Independent Studies in Drama TBA
491HI**

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.

Faculty

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, PhD
K. Nakajima, MA, M Phil (N)
L.C.D.C. Priestley, MA, M Phil, Ph D
W.A. Schlepp, 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, BA, 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, PhD
V.T. Shen, MA, M Phil, Ph D

Associate Professors

E. Cazdyn, MA, PhD
R. Guisso, BA, D Phil
Y. Johnson, MA, Ph D
A. Sakaki, 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

K. Kawashima, MA, Ph D
Y.G. Kim, MA M Ed, Ed D*
J. Song, MA, PhD
C. Virag, MA, PhD
Y.S. Yoo, Ph D*

Senior Lecturer

H.X.Y. Wu, Ph D

Lecturers

H.Y. Im, M Ed, MA*
I. Komuro-Lee, MA
M. Kondo, MA*
H-W Rupprecht, MA, Ph D*

* 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

East Asian Studies Specialist, Major, Minor (Arts programs)

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.
5. EAS102Y1 is a required course for all levels of the program.
6. 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, 290Y1, 300Y1, 302Y1, 310Y1, 348HI, 349HI, 382Y1/HI, 400Y1, 410Y1, 415Y1, 416Y1, 460Y1, 461Y1, 480Y1/HI, 482Y1/HI,

EAS Society-Culture EAS Courses

EAS 102Y1, 204Y1, 206Y1, 207HI, 209Y1, 211Y1, 217HI, 221Y1, 227Y1, 233HI, 235HI, 237Y1, 238HI, 239HI, 246HI, 247HI, 250HI, 261HI, 269Y1, 271HI, 272HI, 293HI, 295Y1, 299Y1, 303HI, 304Y1, 305Y1, 306Y1, 307HI, 309HI, 321Y1, 323Y1, 327HI, 330HI, 331Y1, 334Y1, 336HI, 337HI, 338Y1, 339HI, 340HI, 344HI, 345HI, 346HI, 347HI, 351HI, 352HI, 354Y1, 355HI, 362Y1, 368Y1, 369HI, 372HI, 373HI, 385Y1, 389Y1, 395Y1, 398HI, 399Y1, 402Y1, 405Y1, 407HI, 408HI, 421Y1, 431HI, 434HI, 435HI, 436Y1, 437Y1, 438Y1, 442HI, 444HI, 445HI, 446HI, 447HI, 454HI, 456HI, 457HI, 462HI, 468Y1, 469Y1, 470HI, 471HI, 472Y1, 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

1. EAS 102Y1, EAS 209Y1 (total of 2 credits)
2. Three full EAS language courses in one language. (total of 3 credits of any levels)
3. 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

1. EAS102Y1, EAS 209Y1 (total of 2 credits)
2. Two full EAS language courses in one language. (total of 2 credits of any levels)
3. 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.)

1. EAS 102Y (1 credit)
2. 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 31 for Key to Course Descriptions.

For Distribution Requirement purposes, (see page 25) 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.

EAS101Y1 Modern Chinese I for Students 26T, 52S with Prior Background

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.

EAS200Y1 Modern Standard Chinese II 52T, 52S

As a continuation of EAS100Y. Those who are suitable for this course but have not studied some content in EAS100Y, especially pinyin, must make an effort to catch up by themselves. Exclusion: EAS290Y1, LGGB01H3F, LGGB02H3S, or those with near-native fluency in any Chinese dialect.

Prerequisite: EAS100Y1 (maximum grade 67%), EAS101Y1 (maximum grade 63%), or permission of the instructor

EAS201Y1 Modern Chinese II for 26T, 52S Students with Prior Background

As a continuation of EAS101Y. Those who are suitable for this course but have not studied some content of EAS101Y, 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

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.
Exclusion: EAS206YI

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

Japanese

EAS120YI Modern Standard Japanese I 52L, 78T

An introduction to the basic elements of the Japanese language, and the development of comprehension, speaking, reading and writing skills. Along with the hiragana and katakana systems of writing, approximately 200 kanji are introduced. Some cultural aspects are introduced as well. Open only to students with no prior background in Japanese.

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 is required. Approximately 120 kanji are introduced.

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. Open only to those whose Japanese level is equivalent to Level 4 of Japanese Proficiency Test.

Prerequisite: EAS 120YI/121HI (minimum 70%)

EAS320YI Modern Standard Japanese III 130S (formerly EAS 348HI, 349HI)

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.

Prerequisite: EAS220Y (75% minimum)

Exclusion: EAS348HI, 349HI

Recommended preparation: EAS293HI

EAS460YI Modern Standard Japanese IVa 78S (formerly EAS460HI)

Focus 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. Class meets once a week for a year. Native or close-to-native speakers are not permitted to take this course.

Prerequisite: EAS349HI

Exclusion: EAS460HI

EAS 461YI Modern Standard Japanese IVb 78S (formerly EAS461HI)

Focused on advanced writing and reading skills. Emphasis is on acquisition of advanced grammar, vocabulary/kanji and expressions especially in authentic written Japanese text. Class meets once a week for a year. Native or near-native Japanese speakers are not permitted to take this course.

Prerequisite: EAS349HI

Exclusion: EAS461HI

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

EAS415Y1 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 EAS210Y1. Besides extensive reading, the course introduces 800 Chinese characters often used in mixed-scripts.
 Prerequisite: EAS210Y1

Vietnamese

EAS104Y1 Elementary Vietnamese 78S
 An introductory course for students, with equal emphasis on reading, writing, speaking and grammar.

Sanskrit

EAS382Y1/HI Intermediate Sanskrit 78L
 Continuation of the study of Sanskrit grammar with readings from Classical Sanskrit epic and narrative literature.
 Prerequisite: EAS282Y1, EAS1500Y
 Exclusion: Intermediate Sanskrit Course taken in 2004-05

EAS480Y1/HI Advanced Sanskrit I TBA
 Reading in classical Sanskrit poetry and prose.
 Prerequisite: EAS382Y

EAS482Y1 Advanced Sanskrit II TBA
 Reading in classical Sanskrit poetry and prose.
 Prerequisite: EAS382Y or permission of instructor

EAS Society-Culture Courses

100-Series Courses

EAS102Y1 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 45.

200-Series Courses

EAS204Y1 Modern East Asian History 26L, 26T
 Examines how various histories of East Asia can be written. Topics as varied as Chinese users of New World silver in the 17th century, the shifting fortunes of Korean shamanism, and the Tokyo War Crime Trials are used to ask questions about Eurocentrism, public memory, gender, and national history.
 Exclusion: HIS 107Y1; Not open to students who took EAS102Y1 in 2001-2002

EAS206Y1 Classical Chinese I 52S
 An introductory reading course in Classical Chinese with emphasis on grammatical analysis and translation into English.
 Exclusion: EAS290Y1
 Prerequisite: Must have already taken at least 3 EAS half courses
 Co-requisite: EAS200Y1/201Y1

EAS209Y1 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)

EAS217Y1 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.

EAS227Y1 Introduction to East Asian Art 52L
 Art and archaeology of Asia. Historical and cultural background. Lecture course illustrated with slides.

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 EAS235Y1) 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: EAS235Y1

EAS237Y1 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)

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: EAS102Y1

East Asian Studies

EAS247HI Japanese Culture & Modernity 26L, 13T

An exploration of the problem of modernity and culture in Japan from 1868 to the Cold War, specifically addressing the diverse representations of culture and their relationship to the expansion of a capitalist commodity economy in Japan, using literary, philosophical, artistic and economic texts in translation. Recommended preparation: EAS204YI, 246HI

EAS269YI Tibetan Buddhism in the West 52L, 26P

Tibetan Buddhism has made its way to West through a series of global political events triggered over a half century ago in the northeastern Tibetan province of Kham. This course provides a descriptive account of the various aspects of the transmission of Tibetan Buddhism in the West. Specifically, it will explore the common misconceptions about Tibetan Buddhist practice, Western students' receptivity and resistance to the spiritual training, the contributions by Western academic studies, the social engagement of Tibetan Buddhism in the modern world, as well as the transformations of the tradition to accommodate Western students.

EAS271HI 20th Century Korean History 26L (formerly EAS271YI)

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 is a theme-oriented course with anthropological approaches to South Korean society and culture. The course deals with various subjects and phenomena appeared in post-war period in South Korea, which include post-Korean war crisis, gender and family dynamics, military dictatorship and economic development.

Exclusion: EAS351HI
Prerequisite: EAS271H

EAS293HI Fundamentals of Japanese Grammar 26L

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.

Exclusion: Not open to native speakers of Japanese; EAS490HI
Prerequisite: EAS120Y
Recommended Preparation: LIN204H

EAS295Y0 Selected Topics in East Asian Studies TBA

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.

EAS299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

300-Series Courses

JMC301YI State & 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.

Prerequisite: EAS102YI/HIS280YI/328YI/JMC201YI/POL215YI
This course is classified as both a Humanities and Social Science course

EAS 303HI Technology of Social Engineering: Women in 20th Century East Asia 26L

This course aims to teach how East Asian modern societies were engineered through projecting women into particular being/position. Studying examples, such as, eugenic women (China), homeless women (South Korea), lunch mother (Japan), the course explores relevance of using postcolonialism, Marxism, governmentality studies, transnationalism and feminism in understanding East Asian modernities.

Prerequisite: EAS209YI. Students not enrolled in an EAS subject POST are required to have an interview with the instructor.

EAS304Y0 A Millennium of Cultural Exchange Between China & Japan 52L

An exploration of the dynamics of China-Japan cultural exchange. This discussion-oriented and illustrated course gives an overview of the Chinese texts and styles of art that were particularly emulated in Japan and the ways they were creatively naturalized into Japanese culture. The course also briefly examines the influence of Japanese culture on contemporary Hong Kong and Shenzhen/Guangzhou. Field trip is included. (Normally offered only in Summer)

EAS305YI Art and Literary Theory of Pre-Modern China in Translation 52L

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 translation. (Offered in alternate years)

EAS306YI Classical Chinese II (formerly EAS335YI) 52S

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: EAS206YI (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.

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.

EAS331YI Buddhist Arts of Inner & East Asia 52L

Buddhism as seen through the arts, in ancient and medieval cultures of Inner and East Asia. Following an introductory consideration of South Asian Buddhism and Buddhist art, the focus shifts to Afghanistan, Central Asia, Tibet, China, Korea and Japan; with lectures on selected types and periods in architecture, sculpture, painting and other arts. Illustrated with slides and other material.

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.

**EAS336HI Chinese Literature 26L
(pre-Qin to Tang)
(formerly EAS336YI)**

A survey course of major works in premodern Chinese literature, including poetry, essays, and short narratives from the pre-Qin through Tang eras (11thC BCE - 10thC 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

**EAS337HI Chinese Literature 26L
(Song to Qing)
(formerly EAS336YI)**

A survey course of major works in premodern Chinese literature, including poetry, essays, short narratives and drama from the Song through Qing dynasties (10thC - 19thC). 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

Recommended preparation: Literature courses

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

EAS344HI Topics in Chinese Society & 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

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 52S
(formerly EAS260YI)**

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

East Asian Studies

EAS372HI Early Korean History 26L

This course is a survey of issues in early Korean history with particular attention to theories 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: EAS271H/72H

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: EAS247H

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 45 for details.

400-Series Courses

EAS405HI Art and Literary Theory of Pre-Modern China (formerly EAS405YI) 26S

Essential works of Chinese painting and calligraphy theory and literary criticism from the pre-Qin period to the Qing dynasty. Based on close reading and translation of original texts. Recommended only for those pursuing advanced studies in this field. (Offered in alternate years.)

Prerequisite: EAS300YI, 306YI

Exclusion: EAS405YI

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.

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 grad 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.) (please add red part)

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 52L, 26P
in China, Korea and Japan**

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, 26S
Apparatus, Operation**

Discusses how images of Japan, charged with varied degrees of desire for empirical knowledge, have contributed to contemporary novels and plays by David Mitchell, Ruth L. Ozeki, David Mamet, Joy Kogawa, Kazuo Ishiguro, Marguerite Duras, and David Hwang. All the readings, including Japanese literary and theoretical, are available in English.

**EAS457HI Approaches to Modern 26S
Japanese History**

This advanced seminar analyzes contemporary and past approaches to the writing of modern Japanese history, including detailed discussion of dominant tropes, metaphors and periodization schemes in historiography, especially as it is practiced in North America. Readings include contemporary theories of historical writing and "the event" by Jacques Ranciere, Foucault, Blanchot and others.

Prerequisite: A course in Japanese history
Recommended preparation: EAS 247HI, EAS 281HI/YI/347HI

**EAS462HI Ethnographic Literature on 26L
Korea: Class, Gender & Family**

This course addresses writing ethnography as a cultural critique through the anthropological literature dealing with Korean women, marriage, gender and class.

**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.
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.

**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 78L
Linguistics: Syntax and Semantics**

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 39S
Japanese Language Instruction**

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

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

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
D. Pokorny, 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

H.D. Benjamin, MA, Ph D

Professor and Associate Chair, Undergraduate Studies

F.R. Casas, MSc, Ph D

University Professor

M. Trebilcock, FRSC, LLM

Professors

V.A. Aivazian, BS, Ph D (UTM)
G. Anderson, M Sc, Ph D (UTM)
M. Baker, 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 (UTM)
D.K. Foot, AM, Ph D (N)
C. Gourieroux, Ph D
M. Gunderson, MA, Ph D
I. Horstmann, BA, Ph D +
S. Horton, MA, Ph D (S)
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 (UTM)
J.M. Mintz, MA, Ph D
D.E. Moggridge, MA, Ph D (T)
M.J. Osborne, BA, Ph D
P. Pauly, VW, Dr Rer Pol
J.E. Pesando, MA, Ph D
F.J. Reid, M Sc, Ph D (UTM)
A. Rotstein, BA, Ph D
S. Shi, MA, PhD
A. Siow, BA, Ph D
W.C. Strange, MA, Ph D +
D. Trefler, MA, Ph D
A.J. Yatchew, MA, Ph D
X. Zhu, MS, Ph D (UTM)

Associate Professors

M. Alexopoulos, MA, Ph D
G. Duranton, MA, M Sc, Ph D
G. Hamilton, MA, Ph D
J. Maheu, MA, Ph D (UTM)
C. Pitchik, M Sc, Ph D (UTM)
D. Puga, M Sc, Ph D
D. Restuccia, MA, Ph D
J. Roberts, MA, Ph D
M. Smart, MA, Ph D
M.B. Stabile, MA, Ph D (UTM)
M.A. Turner, AM, Ph D

Assistant Professors

S. Board, M Phil, Ph D (UTM)
G. Bobonis, BA, PhD
E. Choo, M Comm, MA, M Phil, Ph D
E. Damiano, MA, M Phil, Ph D
A. Erosa, MA, Ph D (UTM)
L. Fuster, MA, Ph D
G. Goh, MA, Ph D
G. Kambourov, PhD (UTM)
E. Malinova, MA
A.S. Maynard, MA, M Phil, Ph D
R. McMillan, BA, Ph D (UTM)
S. Mechoulan, MA, Ph D
P. Oreopoulos, MA, Ph D (UTM)
A. Park, Ph D (UTM)
J. Putnam, MA, Ph D +
C. Serrano, MS, MA
H. Shierholtz, MS, MA, PhD (UTM)
N. Soboleva, MA, M Phil, Ph D
J. Van Biesebroeck, MA, Ph D (UTM)

Adjunct Professor

D.P. Dungan, MA, Ph D

Lecturers

G. Indart, MA, Ph D

J. Murdock, M Phil, Ph D

Sessional Lecturers

M. Anjomshoa, MA, M Phil

J. Crean, MA, Ph D (Adjunct Professor)

K. Furlong, MA, Ph D

G. Gagnon, MA, Ph D

R. Ghaeli, MA, PhD

B. Kralj, MA, PhD

A. Mazaheri, MA, Ph D

R. Satchu, MBA

M.A. Sillamaa, MA, MSc, PhD (UTSC)

G. Slasor, BA

P. Tomlinson, BA, Ph D

W.G. Wolfson, B Com, MA

Z.F. Yang, MA

+ cross appointed

Economics is a social science that encompasses a particular 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.

The Department publishes an Undergraduate Handbook. Copies may be obtained from the Department at 150 St. George Street. Some Economics Specialist Programs list advisors whom students are encouraged to consult.

Undergraduate Administrator: R. Innes

Commerce Assistant: J. Fan

Enquiries:

100 St. George Street, 4th floor (416-978-4603)

Economics Programs

Enrolment in Economics courses and programs is based on grades in ECO 100Y, a minimum CGPA (please read entry requirements carefully) and in some cases, MAT 133Y or MAT 135Y or MAT 137Y/157Y. Consult the *Registration Handbook & Timetable* and *Departmental Handbook* for details.

Economic History & Economics (Arts program)

Enrolment in this program is limited to students with 67% in ECO 100Y, or 80% in ECO 105Y, and have 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:

ECO100Y/105Y; MAT133Y/135Y/137Y

Higher Years:

1. ECO200Y/206Y, ECO202Y/208Y, ECO220Y/227Y/STA (250H,255H)/(257H,261H)
2. Four 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 ECO courses (not from above list)

Economic History (Arts program)

Enrolment in the Economic History Programs is limited to students with 67% in ECO100Y, or 80% in ECO105Y, and have a CGPA of 2.0.

Major program

(6 full courses or their equivalent)

First Year:

ECO 100Y/105Y

Higher Years:

1. ECO 200Y/206Y
2. Four 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
2. ECO 200Y/206Y
3. Two Economic History courses from from: 301Y, 302H, 303Y, 307H, 308H, 309H, 321Y, 342Y, 353Y, 354H, 355H, 423H, 429Y, 435H

Economics

Economics (Arts program)

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 Economic History course from the following: 301Y, 302H, 303Y, 307H, 308H, 309H, 321Y, 342Y, 353Y, 354H, 355H, 423H, 429Y, 435H
3. Four 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, and have 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 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, and have a CGPA of 2.0.

1. ECO 100Y/105Y
2. ECO 200Y/206Y
3. Two additional ECO courses, including at least one 300+ series course. No more than one Economic History course is permitted in this program.

Economics (Commerce & Finance) (B.Com.) - See Commerce (page 38)

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 course from Group A and two 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, 452H, 457H, 464H

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)

Enrolment in this program is limited to students with 70% in ECO100Y1/100Y5, 63% in MAT133Y1/133Y5 or 60% in MAT134Y5/135Y1/135Y5 or 55% in MAT137Y1/138Y5, 63% in ECO206Y1/206Y5, 63% in ECO208Y1/208Y5, 63% in ECO227Y1/227Y5/STA(257H1,261H1)/STA(257H5,261H5). There will be a limited number of spaces available for which students can apply after completion of at least 8 full credits (including prerequisites listed above) and achievement of a CGPA to be determined annually by the Department of Economics. 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.

NOTE – Some required courses may be offered only on the St. George or on the UTM 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:

ECO100Y1/100Y5, MAT132Y5/133Y1/133Y5/134Y5/135Y1/135Y5/137Y1/138Y5

Higher Years:

1. ECO206Y1/206Y5
2. ECO208Y1/208Y5
3. ECO227Y1/227Y5/STA(257H1,261H1)/(257H5,258H5/261H5)
4. ECO325H1/325H5, ECO326H1/326H5
5. ECO327Y1*/327Y5*
6. ECO358H1/358H5, ECO359H1/359H5
7. 5 additional 300+ ECO credits or their equivalent, of which at least 1.5 must be chosen from ECO329H1/349H5, ECO460H5, ECO461H1/461H5, ECO462H1, ECO463H5

* MAT222H5/223H1/248Y5 is strongly recommended as preparation for ECO327Y1/327Y5. 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 and Computer Science (Science program) - See Computer Science

Economics and Geography (Arts program)

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, and have 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 ECO/GGR course if ECO 220Y/227Y is chosen, or two if STA (250H, 255H)/(257H, 261H) are chosen

Economics & Mathematics (Science program)

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 and 55% in MAT 137Y and have 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 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)

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, and have 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 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)

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, and have a CGPA of at least 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 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 409, 418, 435, 442, 447, 458, 463, 474, 475, 476, 477, 488, 489
7. Three additional courses in POL or JPE

Economics

Economics & Sociology (Arts program)

Consult Undergraduate Secretary, Department of Economics.

Enrolment in this program is limited to students with 67% in ECO 100Y, or 80% in ECO 105Y, and have 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 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)

Consult Undergraduate Secretary, Department of Economics.

Enrolment in this program is limited to students with 70% in ECO 100Y and 55% in MAT 137Y and have 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 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 348H/414H/422H/442H
4. One additional half-course from ACT 335H/MAT 244H/267H/a 300+ series ECO or STA half-course

Economics Courses

See page 31 for Key to Course Descriptions

For Distribution Requirement purposes (see page 25), all ECO courses are classified as SOCIAL SCIENCE courses.

SSCI99HI/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 45.

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

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: ECO206Y

Prerequisite: ECO100Y(67%)/ECO105Y(80%)

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: MAT133Y/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

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

Prerequisite: ECO100Y(70%); MAT133Y(63%)/135Y(60%)/137Y(55%)

ECO209Y1 Macroeconomic Theory and Policy 52L,26T

Restricted to Commerce students.

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 only open to students in the B. Com (Commerce and Finance) program.

Exclusion: ECO202Y/208Y

Prerequisite: ECO100Y(67%)

Co-requisite: MAT133Y/135Y/137Y

ECO210H1 Mathematical Methods for Economic Theory 26L

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/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, STA220H, 221H, 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, STA220H, 221H, 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

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 International Relations, or Peace and Conflict Studies, or the joint Specialist Program from these areas.

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%)

WDW244H1 Labour Relations

See Woodsworth College

ECO250Y1/ Special Topics in Economics 52S/26S 251H1/ 252H1

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 45 for details.

ECO 301Y1 European Economic History, 1250 - 1750 (formerly ECO201Y1) 52L

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/206Y

ECO302H1 Comparative Economic Institutions in History (formerly ECO302Y1) 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/206Y

Economics

- | | |
|--|---|
| ECO303YI The Economic History of
Modern Europe to 1914 52L
<p>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/206Y</p> | ECO310YI Industrial Organization and
Public Policy 52L, 26T
<p>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/206Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)</p> |
| ECO307HI Issues in Canadian and US
Economic History to 1914 26L
<p>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 ECO354HI).
Prerequisite: ECO200Y1/206Y1
Exclusion: ECO221Y1, 321Y1, 354HI (North American Economic History to 1850), 423HI</p> | ECO313HI Environmental Economics and
Policies 26L
<p>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/206Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)</p> |
| ECO308HI The Economics of Life:A
Historical Perspective 26L
<p>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 ECO355HI).
Prerequisite: ECO200Y/206Y, ECO220Y/227Y or equivalent
Exclusion: ECO355HI (The Economics of Life:A Historical Perspective)</p> | ECO314HI Energy and Resource Economics 26L
<p>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/206Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)</p> |
| ECO309HI Economic Growth and
Development in Southeast Asia 26L
<p>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 ECO355HI).
Prerequisite: ECO200Y/206Y, ECO202Y/208Y/209Y
Exclusion: ECO355HI (Economic Growth and Development in Southeast Asia)</p> | ECO320HI Economic Analysis of Law 26L
<p>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/206Y, MAT133Y/135Y/137Y</p> |
| ECO321YI Canadian Economic History
since 1500
(formerly ECO221Y1) 52L
<p>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 221Y, 323Y
Prerequisite: ECO200Y/206Y</p> | ECO324YI Economic Development 52L
<p>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/206Y, 202Y/208Y/209Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)</p> |
| ECO325HI Advanced Economic
Theory - Macro 26L, 13T
<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.
Prerequisite: ECO208Y/202Y(70%)/209Y(70%), ECO220Y(70%)/227Y/ STA(250H[70%], 255H[70%])/(257H, 261H)
Recommended preparation: MAT223H/240H, MAT235Y/237Y/ ECO210H</p> | |

ECO326HI Advanced Economic Theory - Micro 26L, 13T

Game theory and applications. Topics include: strategic and extensive games, with applications to economics.

Exclusion: ECO372H5, 372Y5

Prerequisite: ECO206Y/200Y(70%), ECO220Y(70%)/227Y/STA(250H[70%], 255H[70%])/(257H, 261H); MAT133Y(63%)/135Y(60%)/137Y(55%)

Recommended preparation: MAT223H/240H, MAT235Y/237Y/ECO210H

ECO327YI Applied Econometrics 52L, 26T

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.

Exclusion: STA302H

Prerequisite: ECO200Y(70%)/206Y, ECO220Y(70%)/227Y/STA(250H[70%], 255H[70%])/(257H, 261H)

Recommended preparation: MAT223H/240H, MAT235Y/237Y/ECO210H

ECO328YI International Economics 52L, 26T

The operation of the international economy and the economic interdependence among nations, in terms of international monetary relationships, commodity trade and factor movements.

Prerequisite: ECO200Y/206Y, 202Y/208Y/209Y

Exclusion: ECO230Y

ECO329HI Topics in Monetary Economics 26L

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.

Exclusion: ECO349H5, ECO352H (2002-03)

Prerequisite: ECO200Y/206Y, ECO202Y/208Y/209Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H), MAT133Y/135Y/137Y

ECO332HI Economics of the Family 26L

This course uses microeconomics to study the behaviour of the family, including marriage, divorce, intra-family allocations, investment in children and gender roles.

Prerequisite: ECO200Y/206Y; MAT133Y/135Y/137Y

ECO333YI Urban Economics 52L

Spatial economic theory and urban public policy: firms and individuals in partial and general equilibrium, land development and land-use controls, urban transportation, efficiency and equity in spending and taxing.

Prerequisite: ECO200Y/206Y, MAT133Y/135Y/137Y

ECO336YI Public Economics 52L

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.

Exclusion: ECO236Y

Prerequisite: ECO200Y/206Y, MAT133Y/135Y/137Y

ECO338HI Economics of Education 26L

Application of microeconomic theory to conceptual and policy issues in education. Topics include the economic benefits and costs of education; investment in human capital and the returns to educational expenditures; the role of government in education; educational financing and planning.

Prerequisite: ECO200Y/206Y, MAT133Y/135Y/137Y

ECO339YI Economics of Labour 52L, 26T

The operation of labour markets; determinants of supply and demand for labour; wage differentials; discrimination; investment in schooling and training; unemployment; economics of unions.

Exclusion: ECO239Y, 361Y5

Prerequisite: ECO200Y/206Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)

ECO340HI Economics of Income Distribution 26L

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).

Prerequisite: ECO200Y/206Y, ECO220Y/227Y/STA(250H, 255H)/(257H, 261H)

ECO342YI Twentieth Century Economic History 52L

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.

Prerequisite: ECO200Y/206Y/(ECO230Y, POL208Y)

ECO350YI/ Special Topics in Economics 52S/26S 351HI/ 352HI

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

ECO353YI/ Special Topics in Economic 52S/26S 354HI/ History 355HI

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

ECO358HI Financial Economics I 26L

An introduction to economics of financial assets and financial markets. Topics: inter-temporal choice, expected utility theory, security valuation, selected asset pricing models, market efficiency, and the term structure of interest rates - essential materials for an understanding of the role and operation of financial markets.

Prerequisite: ECO200Y/206Y, ECO220Y/227Y/STA(250H, 255H)/(257H/261H)

Exclusion: ACT349HI, MGT331Y1, 337Y1

ECO359HI Financial Economics II: 26L Corporate Finance

Agency and incomplete information problems inherent in financial transactions; the role of contractual arrangements in overcoming them. Financial constraints on investment decisions of firms; the financial system in economic growth; the legal system in the functioning of financial markets. A look at theoretical and empirical literature covering these issues.

Prerequisite: ECO358HI

Exclusion: ACT349HI, MGT331Y1, 337Y1

Economics

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/206Y, 202Y/208Y/209Y, ECO220Y/227Y/STA(250H, 255H/257H)

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/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/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: ECO310Y, MGT310Y
Prerequisite: ECO200Y/206Y, 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/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%)/206Y(60%), ECO202Y(70%)/208Y(60%)/209Y(70%), ECO220Y(70%)/227Y(60%)

ECO398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 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/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

ECO424HI Topics in Development Economics 26L

Economic analysis of topics in economic development, such as patterns of growth, issues of poverty and inequality, land reform, tax design and price reform. Focus on application of theory, especially statistical analysis relating to conduct of economic policy in developing countries.
Prerequisite: ECO206Y, 327Y

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 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%)/206Y(60%), 202Y(70%)/208Y(60%)/209Y(70%), 220Y(70%)/227Y(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: ECO381HI, ECO370YI

Prerequisite: ECO200Y(70%)/206Y(60%), 220Y(70%)/227Y(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

Prerequisite: ECO200Y/206Y; ECO202Y/208Y/209Y

ECO430YI/ Reading Course or Thesis 431HI TBA

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%)/ECO206Y(60%)

ECO450HI Long Term Economic Growth: 26L Historical and Theoretical Perspectives

Stylized facts about growth and development; how a simple neoclassical growth model explains these observations. New growth models emphasizing institutions, endogenous population growth and technological change; how they explain cross-country income differences in the postwar period; the historical experience in some countries, with a look at Europe and Asia.

Exclusion: ECO421H

Prerequisite: ECO200Y(70%)/206Y(60%), ECO202Y(70%)/208Y(60%)/209Y(70%)

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, MGT331YI, 337YI

Prerequisite: ECO358H(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.

Exclusion: ACT349HI, MGT331YI, 337YI

Prerequisite: ECO327YI(70%), ECO358H(70%)

**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)
M.F.N. Dixon, MA, Ph D (N) (obiit)
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 (UTM)
F.T. Flahiff, MA, Ph D (SM)
M. Garson, MA, Ph D (UTM)
H.A. Gleason, BS, Ph D
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)
P.L. Heyworth, MA, B Litt (U)
F.D. Hoeniger, MA, Ph D (V)
P. Howard, MA, Ph D (I)
W.J. Howard, MA, Ph D (UTSC)
A.F. Johnston, MA, Ph D, LL D, FRSC (V)
W.J. Keith, MA, Ph D, FRSC (U)
M.C. Kirkham, M Phil (U)
J.C. Kuhn, MA, Ph D (SM)
J.F. Leyerle, Ph D (U)
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 (UTM)
D. Neill, MA, B Litt
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)
W.D. Shaw, AM, Ph D, FRSC (V)
M.J. Sidnell, MA, Ph D (T)
J. Skvorecky, Ph D, FRSC (UTM)

Sister G. Thompson, MA, Ph D (SM)
R.W. Van Fossen, AM, Ph D (UTM)
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)
S.P. Zitner, MA, Ph D (T) (obiit)

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 (U)
R.M. Brown, MA, Ph D (UTSC)
M. Cuddy-Keane, MA, Ph D (UTSC)
A.H. de Quehen, Ph D (U)
D.L. Esch, MA, Ph D (V)
E.R. Harvey, M Phil, Ph D
A. diP. Healey, MA, Ph D (U)
H.J. Jackson, MA, 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)
A.M. Leggatt, MA, Ph D, FRSC (U)
G. M. Leonard, MA, Ph D (UTSC)
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)
S. Neuman, Ph D, FRSC
A.P.M. Orchard, MA, Ph D (T)
S.J. Ortiz
A. Quayson, Ph D
M. Redekop, MA, Ph D (V)
J.H. Reibetanz, AM, Ph D (V)
P.D. Seary, MA, D Phil (N)
S.Z. Solecki, MA, Ph D (U)
P.A. Stevens, MA, Ph D
R. Sullivan, MA, Ph D, FRSC
L. Thomson, MA, Ph D (UTM)
D. Townsend, MA, Ph D (U)

Associate Professors

A. Ackerman, MA, Ph D (U)
S.C. Akbari, MA, Ph D (U)
G.E. Clarke, MA, Ph D (U) (V)
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 (UTSC)
R. Greene, D Phil (UTM)
E.D. Harvey, MA, Ph D
G. Henderson, MA, Ph D
N. ten Kortenaar, MA, Ph D (UTSC)
S. Lamb, MA, Ph D (UTSC)
M.J. Levene, MA, Ph D (UTM)
H. Li, Ph D
R.R. McLeod, MA, Ph D (UTM)
N. Morgenstern, MA, Ph D
M. Nyquist, MA, Ph D (N)
J.J. O'Connor, MA, Ph D (SM)
A.J.C. Patenall, MA, Ph D (UTSC)
J.W.O. Patrick, MA, Ph D (V)
C.E. Percy, MA, D Phil (N)
W. Robins, MA, Ph D (V)
S. Salih, MA, D Phil
K. Weisman, MA, Ph D

Assistant Professors

C. Bolus-Reichert, MA, Ph D (UTSC)
M. Cobb, MA, Ph D
C. Columpar, Ph D (I)
J. DeLombard, MA, Ph D (UTM)
S.E. Dickie, MA, Ph D
N. Dolan, MA, Ph D (UTSC)
A. DuBois, Ph D (UTSC)
A. Gillespie, MA, D Phil (UTM)
C. Hill, MA, Ph D (UTM)
D.H. Justice, MA, Ph D
J. Lopez, MA, Ph D
A. Maurice, MA, Ph D (UTSC)
A. Most, MA, Ph D
N. Mount, MA, Ph D
M. Ruti, MA, Ph D (UTM)
N. Sammond, MA, Ph D (I)
H.S. Syme, AM, Ph D (UTM)
C. Warley, MA, Ph D
D.E. White, MA, Ph D (UTM)
S. Wilson, MA, Ph D
M. Woodland, 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 produced in many countries around the world. The Department of English offers a wide range of courses which engage aspects of this vast subject: historical surveys, period courses, courses in national literatures, and studies of genres and of individual authors, as well as courses in the theory and practice of literary criticism. The Department's objective in every course is to deepen the student's awareness and appreciation of a complex and constantly evolving literary tradition. More broadly, studying English gives extensive practice in the interpretation of texts, and develops skills of critical thinking, analysis and

expression that are required by all areas of research, business, and professional activity, and that are essential to success both within and beyond university.

Courses are arranged in four series. This gradation denotes the amount of prior experience and the level of work expected. In the 100-series, the emphasis falls on introducing students to the study of English at the university level. The 200-series offers courses at both an introductory and an intermediate level. The 300- and 400-series courses are more advanced.

English Programs provide students with different frameworks within which to develop their knowledge of the field while balancing the demands of breadth and depth. The Specialist Program is not designed to meet the specific requirements for admission to any graduate program in English. Students interested in proceeding to graduate study in English should seek appropriate advice on course selection. Students considering a teaching career in Ontario should consult the Ontario Institute for Studies in Education/UT. Students with questions about the requirements of Minor, Major or Specialist Programs in English should consult the Office of the Associate Chair.

The Department of English publishes an Undergraduate Brochure each year which is usually available by mid-April. The Brochure provides detailed course descriptions, reading lists for individual sections, and information concerning program requirements and enrolment. The general policy of the Department is to regulate class size to maintain optimal conditions for teaching and learning. Enrolment in many sections is therefore limited. All students interested in taking an English course are urged to consult the Undergraduate Brochure for detailed information.

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)

Students are responsible for completing all the requirements of the English Program in which they are enrolled. Enrolment in any English Program requires completion of four previous courses. No minimum GPA is required.

Specialist program:

(10 ENG/JEF full courses or their equivalent, including at least four courses at the 300+ level, of which at least one must be a 400-series course)

Students wishing to complete an English Specialist Program must successfully complete at least ten ENG/JEF courses in a twenty-course degree program, fulfilling all of the following requirements:

1. ENG 201Y1 OR 202Y1
2. At least three full-course equivalents selected from the pre-1800 group of courses (Group A)

English

3. At least two full-course equivalents selected from the post-1800 group of courses (Group B)
4. At least one full-course equivalent from the Canadian Literature group of courses (Group C)
5. Only one 100-series ENG/JEF course may be counted toward the Program requirements; ENG 100HI, ENG 185YI, HUM 199YI may not be counted

Major program:

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

Students wishing to complete an English Major Program must successfully complete at least seven ENG/JEF courses, fulfilling all of the following requirements:

1. ENG 201YI OR 202YI
2. At least two full-course equivalents selected from the pre-1800 group of courses (Group A)
3. At least one full-course equivalent selected from the post-1800 group of courses (Group B)
4. At least one full-course equivalent from the Canadian Literature group of courses (Group C)
5. Only one 100-series ENG/JEF course may be counted toward the Program requirements; ENG 100HI, ENG 185YI, HUM 199YI may not be counted

Minor program:

(4 ENG/JEF full courses or their equivalent)

Students wishing to complete an English Minor Program must successfully complete at least four ENG/JEF courses, fulfilling all of the following requirements:

1. ENG 201YI OR 202YI
2. At least one 300+series ENG full-course equivalent
3. Only one 100-series ENG/JEF course may be counted toward the Program requirements; ENG 100HI, ENG 185YI, HUM 199YI may not be counted

Group A:

ENG 220YI, 240YI, 241YI, 243YI, 244YI, 300YI, 301HI OR 302YI, 303HI OR 304YI, 305HI OR 306YI, 307HI, 322YI, 330HI, 332YI OR 333HI, 334HI, 400YI, 401YI, 405HI, 406HI, 407HI, 408HI, 440YI, 441YI, 442YI, 455HI, 456HI, 457HI, 480YI, 481HI

Group B:

ENG 213HI, 214HI, 232HI, 236HI, 237HI, 238HI, 247YI, 250YI, 253YI, 254YI, 256YI, 278YI, 279YI, 308YI, 309HI, 312YI, 324YI OR 325HI, 328YI, 329HI, 338YI, 339HI, 348YI, 349HI, 358YI, 359YI, 361HI, 366YI, 420HI, 421HI, 422HI, 423HI, 443YI, 444YI, 458HI, 459HI; SMC 349HI

Group C:

ENG 215HI, 216YI, 223HI, 252YI, 277YI, 350HI, 354YI, 356HI, 430HI, 431HI, 432HI, 433HI

English and Drama - See Drama

English and Linguistics (Arts program)

Consult the Undergraduate Coordinator, Department of English.

Specialist Program:

(14 full courses or their equivalent, including at least one 400-

series course)

English (7 courses)

NOTE: Students wishing to complete a Combined Specialist Program in English and Linguistics must complete seven ENG/JEF courses, fulfilling all of the following requirements:

1. ENG 201YI or 202YI
2. ENG 367YI
3. At least two full-course equivalents selected from the pre-1800 group of courses (Group A); at least one of the courses must be at the 300+level (ENG 240YI and ENG 300YI specially recommended)
4. Only one 100-series ENG/JEF course may be counted towards the Program requirements; ENG 100HI, ENG 185YI, HUM 199YI may not be counted

Linguistics (7 courses)

First Year:

LIN 100YI

Second Year:

LIN 228HI, 229HI, 231HI, 232HI

Third and Fourth Years:

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)

Consult the Undergraduate Coordinator, Department of English.

Specialist program:

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

English (6 to 8 courses):

NOTE: Students wishing to complete a Combined Specialist Program in English and Philosophy must complete six or seven ENG/JEF courses, fulfilling all of the following requirements:

1. ENG 201YI OR 202YI
2. At least two full-course equivalents selected from the pre-1800 group of courses (Group A); at least one of the courses must be at the 300+level
3. At least one 300+level ENG full-course equivalent in addition to the one stipulated in requirement 2 (above)
4. Only one 100-series ENG/JEF course may be counted toward the Program requirements; ENG 100HI, ENG 185YI, HUM 199YI may not be counted

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

See page 31 for Key to Course Descriptions

For Distribution Requirement purposes (see page 25), all ENG courses are classified as HUMANITIES courses.

Please note: Not all courses are offered every year.

100-Series Courses

Note

The 100-series courses are designed to increase the students' skills in interpretation and effective writing, and are open to all students who have standing in no more than one full-course equivalent in English. ENG 100HI is a course in general writing skills relevant to a wide range of university subject areas. Only one of JEF 100Y1, ENG 110Y1, 120Y1, and 140Y1 can be used in fulfillment of a Specialist, Major, or Minor Program. JEF 100Y1 offers an acquaintance with the major works of various Western literary traditions in English translation. ENG 110Y1 explores the nature of narrative writing in a variety of fictional and non-fictional, poetic, and cinematic forms. ENG 120Y1 approaches the diversity of literature in English historically, dealing with works from many different periods; ENG 140Y1 approaches this diversity more geographically, focusing on contributions made to modern and contemporary literature in English in various areas of the world. Students with fewer than four full courses in the Faculty may enrol in ENG 201Y1 or 202Y1 provided they enrol in one of ENG 110Y1, 120Y1, 140Y1 or JEF 100Y1 as a co-requisite. ENG 100HI, ENG 185Y1, HUM 199Y1 may not be used to meet the requirements of any English program.

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.

ENG110Y1 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.

ENG120Y1 Forms of Literary Expression 78L

An exploration of how major forms of drama, poetry, and fiction have shaped the writer's expression and the reader's response through different eras. At least nine works, from such genres as comedy, tragedy, pastoral, elegy, satire, detective story, autobiography.

ENG140Y1 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.

ENG185Y1 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/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 45. This course may not count toward any English program.

JEF100Y1 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 100Y1 in the French program listings.)

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. Students without this prerequisite may enrol in ENG 201Y1 or 202Y1 if they are concurrently enrolled in any of ENG 110Y1, 120Y1, 140Y1, or JEF 100Y1. Students in a Specialist, Major, or Minor program in English are required to take either ENG 201Y1 or 202Y1. Students should note the special prerequisite for ENG 269Y1 and they should consult the Department's Brochure before the May 15 deadline for instructions about applying for this course.

ENG200Y1 The Bible and English Literature 78L

An introductory study of the Bible's influence on literature in English. Selections from the Bible, Milton, Blake, Eliot. Other works to be chosen by the instructor.

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.

Co-requisite: For students with fewer than four full-course equivalents, one of ENG 110Y1/120Y1/140Y1/JEF100Y1

ENG202Y1 Major British Writers 78L

Lectures and tutorials on the essential and influential texts that have helped ground our English literary heritage. Poetry, drama and fiction by at least fourteen authors such as Chaucer, Spenser, Shakespeare, Donne, Milton, Bunyan, Dryden, Congreve, Pope, Swift, Fielding, Austen, Blake, Wordsworth, Coleridge, Keats, Tennyson, Browning, Dickens, George Eliot, Joyce, Woolf, T.S. Eliot.

Co-requisite: For students with fewer than four full-course equivalents, one of ENG 110Y1/120Y1/140Y1/JEF100Y1

English

ENG213HI The Short Story 39L

A introduction to fiction through short stories of various kinds, written mainly in the nineteenth and twentieth centuries. Authors such as Hawthorne, Poe, James, Conrad, Kipling, Joyce, Lawrence, Mansfield, Faulkner, Hemingway, Singer, Gallant.

ENG214HI The Short-Story Collection 39L

A study of interrelated short-story collections written and put together by such authors as Kipling, Joyce, Lawrence, Hemingway, Mansfield, Salinger, Roth, Laurence, Faulkner, O'Connor, Gallant.

ENG215HI The Canadian Short Story 39L

A study of Canadian short fiction in English since its beginnings. A wide variety of regions, periods, styles, and writers is considered. Works by authors such as Callaghan, Ross, Laurence, Gallant, Munro, Buckler, Hood, Hodgins, and Atwood are included.

ENG216YI Twentieth-Century Canadian Fiction 78L

The vitality of modern and contemporary Canadian fiction is acclaimed both nationally and internationally. This course examines the work of writers who have achieved world-wide recognition as well as others who have added significantly to our knowledge of ourselves and our country. Twelve or more works studied.

ENG220YI 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.

ENG223HI Canadian Drama 39L

Canadian plays, with emphasis on major playwrights and on developments since 1940, but with attention also to the history of the theatre in Canada.

ENG232HI Twentieth-Century Biography 39L

An introduction to the varieties of biography in this century. Issues such as the nature of biographical sources, the aims of the biographer, the difference between biography and autobiography, and the bias of the biographer are discussed. Figures such as Wilde, Russell, Woolf, Plath, Lennon, Layton, MacEwen may be included.

ENG233YI Major Women Writers 78L

A study of at least eight and not more than twelve major women writers. The course includes works of poetry and fiction. Drama and non-fiction may also be represented.

ENG234HI Children's Literature 39L

An historical and critical study of poetry, fiction, and drama written for or appropriated by children. Works by at least twelve authors such as Bunyan, Defoe, Stevenson, Carroll, Twain, Milne, Tolkien, Norton, and Andersen.

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 and Fantasy 39L

The literature of possible worlds and thought experiments. Science fiction invents or extrapolates an inner or outer

cosmology from the physical, life, social, and human sciences, and fantasy animates a supernatural universe. Typical subjects include AI, alternate histories, holocaust, space-time travel, strange species, theories of everything, utopias or dystopias.

ENG238HI Science Fiction and Fantasy: Film 26L, 39P/T

Ten to twelve American films, from the 1950s to the present, by such directors as Haskin, Siegel, Kubrick, Spielberg, Reiner, Ridley Scott, Lucas, Fincher, Verhoeven.

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.

ENG241YI Medieval Literature 78L

Poetry, prose and drama of medieval England.

ENG243YI Early Modern Literature 78L

Poetry, prose and drama of the sixteenth and seventeenth centuries.

ENG244YI Eighteenth-Century Literature 78L

Poetry, prose and drama of the eighteenth century.

ENG247YI Nineteenth-Century Literature 78L

Poetry, prose and drama of the nineteenth century.

ENG250YI American Literature 78L

Introductory survey of major works in American literature. Works by about twelve authors writing in a variety of genres, including not only poetry and fiction, but also essays and slave narratives. Representative authors include Hawthorne, Melville, Thoreau, Emerson, Harriet Jacobs, Douglass, Twain, Whitman, Dickinson, James, Wharton, Faulkner, Cather, Hurston, Eliot, Frost, Brooks, Stevens.

ENG252YI Canadian Literature 78L

An introductory survey of Canadian poetry, prose and drama, consisting of the work of at least twelve writers, at least one of them of Native Canadian origin. At least one third of the works date from before 1950, but attention is also given to very recent works. The course includes works by at least eight of the following: Moodie, Lampman, Leacock, Pratt, Klein, Ross, Birney, Davies, Laurence, Reaney, Munro, Atwood.

ENG253YI World Literatures in English 78L

A study of approximately twelve writers from diverse English-speaking cultures, for example, those of Africa, Australia, India, New Zealand, and the West Indies. Authors include at least six of the following: Achebe, Coetzee, Gordimer, Ngugi, p'bitek, Soyinka, Keneally, Stead, Stow, White, Narayan, Rao, Rushdie, Frame, Bennett, Brathwaite, Harris, Naipaul, Walcott.

ENG254YI Contemporary Native North American Literature 78L

Contemporary North American aboriginal writing in English. The writings are placed within the context of aboriginal cultures and living oral traditions. Attention is given to linguistic and territorial diversity. Writers may include Paula Gunn Allen, Jeannette Armstrong, Beth Brant, Maria Campbell, Louise Erdrich, Joy Harjo, Tomson Highway, Basil Johnston, Emma LaRoque, Lee Maracle, N. Scott Momaday, Daniel David Moses, Leslie Marmon Silko.

ENG256YI Twentieth-Century North American Jewish Literature 78L

A survey of major texts, focusing on the relationship between genre and ethnic and national identity. Included are works of prose, poetry, drama, film, music, and other forms of popular culture by writers and artists who identified themselves, or were identified, as Jewish.

ENG257YI English Literature and Film 78L

At least eight literary works and a film adaptation of each focusing on a particular genre, topic, or period.

ENG267HI Literature and Criticism: 39L An Introduction

An introduction to some central issues and concepts of literary criticism, such as the notion of literature, the relation of literature to criticism, critical analysis and evaluation, and the making of literary canons.

ENG269YI Writing: Purposes, Strategies, Processes 78L

The skills involved in critical thinking are also used in the process of expressing thoughts precisely, suggestively, and persuasively in writing. This course in expository writing is an intermediate-level seminar in which students who already write effectively can improve their understanding and practice of rhetorical strategy and prose style through workshops in a variety of forms and subjects.

Prerequisite: Permission of instructor and the Associate Chair

ENG273YI Introduction to Gay and Lesbian Literature 78L

The course also introduces students to literary theory in this field.

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.

ENG279YI Chinese North American Literature in English 78L

An introduction to major Chinese Canadian and Chinese American writers in English through a survey of their writings in a variety of literary forms (e.g., novel, poem, drama, essay, autobiography). This course explores representations of radical and ethnic identity in relation to issues of gender, class, and nation.

ENG290YI Literature and Psychoanalysis 78L

Introduction to the study of literature by reference to psychoanalysis. Literary texts are examined in the context of major ideas of psychoanalysis, e.g., the Oedipus complex, dream interpretation, the desire of the Other, stages of development, and by reference to the common concern of literature and psychoanalysis with language. Texts include psychoanalytic and literary works by such authors as Freud, Jung, Lacan, Shakespeare, Dickens and D.H. Lawrence.

ENG299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

300-Series Courses

Note

300-series courses are open to students who have obtained standing in at least four full-course equivalents, including at least two full-course equivalent ENG or JEF courses. Students should note the special prerequisites for ENG 369YI, 390YI, 391YI, 392HI, 393HI and 394YI and they should consult the Department's Brochure before the May 15 deadline for instructions about applying for these courses.

Please note that exclusions will be strictly enforced.

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. Exclusion: ENG302YI

ENG302YI Poetry and Prose, 1500-1600 78L

Poetry: Wyatt and Surrey, Sidney, Marlowe, Shakespeare, Spenser (*The Faerie Queene*, at least two Books; and the *Mutabilitie Cantos*), and Donne. Other poets may be added. Prose: More, *Utopia*; and Sidney, *Defence of Poetry*. Selections from at least two of Elyot; Ascham; Hakluyt; Hooker; Lyly; Sidney, *Arcadia*; Nashe; Deloney. Supplementary readings from such authors as Erasmus, Castiglione, Machiavelli, and Ariosto may be prescribed. Exclusion: ENG301HI

ENG303HI Milton 39L

Selections from *Paradise Lost* and other works. Exclusion: ENG304YI

ENG304YI Poetry and Prose, 1600-1660 78L

Literature in an age of Civil War, intellectual revolution, and religious upheaval, from Donne and Jonson to Milton and Marvell. Such prose writers as Bacon, Burton, Browne and Traherne are also studied. Exclusion: ENG303HI

ENG305HI Swift, Pope and their Circle 39L

Selected works of poetry and prose by Swift and Pope; selected works by others in their circles such as Gay, Arbuthnot, Manley, Parnell; with occasional reference to works by contemporaries outside their circle such as Wortley Montagu, Addison, Steele, Defoe, Haywood. Exclusion: ENG306YI

English

ENG306YI 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: ENG305HI

ENG307HI Women's Writing of the Restoration and Eighteenth Century 39L

Selected works from women writers active in the period 1660-1800.

ENG308YI 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.

ENG309HI Women Writers of the Romantic Period 39L

This course will examine the important place of women's writing in the literature of the Romantic period. Poets, such as Barbauld, Hemans, Letitia Landon, and/or novelists, such as Austen, Charlotte Smith, Mary Shelley, will be represented.

ENG312YI Victorian Poetry and Prose 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."

ENG322YI Fiction before 1832 78L

A study of major and minor works of fiction, illustrating the emergence of prose fiction as a genre recognized in both a literary and a commercial sense. Authors studied include Defoe, Richardson, Fielding, Sterne, Scott, Austen.

ENG324YI 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: ENG325HI

ENG325HI Victorian Realist Novels 39L

The Victorian novel has been described as the heyday of literary realism. This course explores the great formal variety of "realism"—industrial novels, sensation fiction, multiplot novels, fictional autobiographies, historical fiction, mysteries. Six novels by such authors as Dickens, Thackeray, Eliot, Charlotte Brontë, Gaskell, Collins, Trollope, Hardy. Exclusion: ENG324YI

ENG328YI Fiction, 1900-1960 78L

At least twelve works, including one or more by each of James, Conrad, Joyce, Woolf, Lawrence, and Faulkner.

ENG329HI Contemporary British Fiction 39L

At least six works by at least four contemporary British novelists, such as Beckett, Burgess, Fowles, Golding, Lessing, Spark, Thomas.

ENG330HI Drama Before 1558 39L

A study of medieval English drama. Works include the Corpus Christi Cycle; Mary Magdalene; Castle of Perseverance, Mankind,

Everyman; plays by Henry Medwall and John Redford; at least two other plays.

ENG332YI Drama to 1642 78L

English drama from its beginnings to the closing of the public theatres during the English Civil War: medieval plays; Tudor interlude; Elizabethan, Jacobean and Caroline history, tragedy, comedy, tragicomedy, and romance; special attention to Shakespeare (reflecting the range of his career) and his contemporaries, particularly Marlowe and Jonson. Exclusion: ENG333HI

ENG333HI Marriage and the Family in Drama, 1580-1642 39L

At least eight plays, by a variety of authors including Shakespeare, that deal with such issues as marriage, adultery, parents and children, and domestic violence. Exclusion: ENG332YI

ENG334HI Drama, 1660-1800 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.

ENG338YI Modern Drama 78L

A minimum of twenty representative modern plays, one or more by at least five of Beckett, Churchill, O'Casey, O'Neill, Pinter, Shaw, Stoppard, Synge, Williams, Yeats; background readings from other dramatic literatures.

ENG339HI Contemporary Drama in English 39L

At least ten plays by at least six contemporary dramatists, such as Pinter, Albee, Stoppard, Orton, Bond, Storey, Mercer, Griffiths, Shaffer, Shepard, Sackler, Terry.

ENG348YI Poetry, 1900-1960 78L

Special study of Hopkins, Yeats, Pound, Eliot, and Stevens; selections from other poets.

ENG349HI Contemporary Poetry in English 39L

Works by at least six contemporary poets, such as Dickey, Ginsberg, Heaney, Howard, Hughes, Larkin, Lowell, Plath, Warren.

ENG350HI 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.

ENG354YI Modern Canadian Poetry 78L

Fifteen or more poets from the twentieth century, at least six to be chosen from Pratt, F.R. Scott, A.J.M. Smith, Birney, Layton, Livesay, Klein, Avison, Purdy, Souster, Reaney, Page, Atwood, Webb.

ENG356HI Topics in Canadian Literature 39L

Topics and issues in Canadian writing from its beginnings, covering a variety of genres. Topics vary from year to year; details are listed in the departmental brochure. Topics may include ethnic identity, periodical writing, forms of narrative, the individual and the community, realism and symbolism, nationalism and culture.

ENG358YI American Literature Before 1880 78L

A study of American writing before 1880, including works by at least five authors from the following list: Emerson, Cooper, Poe, Stowe, Melville, Hawthorne, Thoreau, Fuller, Whitman, Dickinson, James.

ENG359YI American Literature, 1880-1960 78L

A study of American writing between 1890 and 1960, including works by at least five authors from the following list: James, Twain, Wharton, Dreiser, Dos Passos, Cather, Williams, Stein, Hemingway, Faulkner, Frost, Welty, Stevens, A. Miller.

ENG361HI Contemporary American Fiction 39L

At least six works by at least four contemporary American novelists, such as Bellow, Doctorow, Hawkes, Mailer, Nabokov, Percy, Pynchon, Updike, Vonnegut.

ENG366YI Contemporary Theory and Criticism 78L

Major issues and movements in the theory of literature and literary criticism, with emphasis on the twentieth century. Among the movements studied are varieties of formal, psychological, and moral criticism and theory, feminist criticism, structuralism and post-structuralism. Authors studied may include such figures as Richards, Leavis, Brooks, Frye, Trilling, Barthes, Bloom, Eagleton, Barbara Johnson.

ENG367YI History of the English Language 78L

English from King Alfred's ninth-century Germanic to many-voiced present-day English, dominating popular culture, science, diplomacy, and business throughout the world. Specific texts show how sociopolitical history changes and varies this language. Topics include semantics, standardization, syntax, and vocabulary.

ENG369YI Creative Writing 52S

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

ENG390YI/ Individual Studies TBA

**392HI/
393HI/
394YI**

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

ENG391YI Individual Studies (Creative) TBA

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 45 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. These advanced courses normally presuppose earlier study in the field, and in some cases specific prerequisites are indicated. Except for ENG 490YI, courses in this series are taught in a seminar format, enrolment being limited to 25 students. Not all 400-series courses are offered every year; students should consult the Department's Brochure for course descriptions and deadlines. Students who require a 400-series course to satisfy their program requirements will have enrolment priority in the first round of course enrolment for these courses. Those who plan to take ENG 490YI should consult the Department's Brochure before the May 15 deadline for instructions about applying.

Please note that exclusions will be strictly enforced.

ENG400YI Beowulf and Other Old English Poetry 52S

Klaeber, ed., Beowulf. Other texts to be selected. Exclusion: ENG480YI

Prerequisite: Five courses in English, including ENG240YI

ENG401YI Studies in Medieval Literature 52S

Prerequisite: Five courses in English, including ENG240YI or 300YI

ENG405HI/ Studies in an Individual 26S

**406HI/
407HI/
408HI**

ENG420HI/ Studies in an Individual 26S

**421HI/
422HI/
423HI**

ENG430HI/ Studies in an Individual 26S

**431HI/
432HI/
433HI**

ENG440YI Studies in Renaissance Literature 52S

ENG441YI Studies in Seventeenth-Century Literature 52S

ENG442YI Studies in Eighteenth-Century Literature 52S

ENG443YI Studies in Nineteenth-Century Literature 52S

ENG444YI Studies in Twentieth-Century Literature 52S

ENG455HI Studies in Renaissance Literature 26S

ENG456HI Studies in Seventeenth-Century Literature 26S

ENG457HI Studies in Eighteenth-Century Literature 26S

ENG458HI Studies in Nineteenth-Century Literature 26S

ENG459HI Studies in Twentieth-Century Literature 26S

English

ENG467YI History of Literary Criticism 52S

Introduction to the work of the major figures in literary criticism from Plato to the mid-twentieth century. Topics include the evaluation and interpretation of literature, theories of the imagination, conceptions of genre and style, the social and historical context of literature. Among the authors will be five of the following: Plato, Aristotle, Sidney, Johnson, Coleridge, Arnold, Eliot, Woolf.

ENG468HI Critical Methods 26S

Study of one or more modes of criticism in relation to the interpretation of literary works.

ENG480YI Studies in Beowulf 52S

An undergraduate/graduate seminar devoted to a close reading of Beowulf.

Exclusion: ENG400YI

Prerequisite: Permission of instructor and five courses in English, including ENG240YI

ENG481HI Studies in Medieval Literature 26S

ENG485HI/ 486HI/ 487HI Advanced Research Seminar 26S

ENG490YI Senior Essay TBA

A scholarly project devised by the student and supervised by a member of the staff. The course is open to students enrolled in the English Specialist Program or in Combined Specialist Programs where it is an option. Proposal forms are available from the Department offices. Proposals should be submitted by May 15.

Prerequisite: Fourteen full-course equivalents, with at least five full-course equivalent ENG/JEF courses; an overall B average in all ENG/JEF courses previously taken, permission of the instructor and the Associate Chair

Exclusion: ENG390YI, 392HI, 393HI, 394YI

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). See below.

Environment & Resource Management (Arts program):

(See program details under Geography)

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.)

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)

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

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

Cross-Appointed Assistant Professors

S. Scharper, Ph D

Senior Lecturers

Karen Ing, MSc
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 HBA 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 Zoology. 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 science students who do not wish to 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. These 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

Centre for Environment

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 at Scarborough Calendar for 2006-07).

Collaborative Specialist Programs:

The Centre offers six Science specialist programs: Environment & Health; Environmental Chemistry; Environmental Geosciences; Earth Systems: Physics and Environment; Past Environments; and Environment & Toxicology. These programs combine the Centre's interdisciplinary core with a deliberately focused set of discipline-specific courses.

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/JGF 150Y1/JGG 150Y1. Students should compare specific program requirements and the prerequisites of 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, and the new Robert Hunter Scholarship (see <http://www.environment.utoronto.ca/UndergraduatePrograms/Scholarships/>)

For further information, see <http://www.environment.utoronto.ca/> or contact David Powell, Undergraduate Student Advisor, Centre for Environment at 33 Willcocks St., Room 2103, 416-946-8100 ordavid.powell@utoronto.ca

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 in 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 21 of the Calendar for program requirement details).

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 suggestions and advice consult the Centre for Environment at <http://www.environment.utoronto.ca/> or phone 416-946-8100.

Centre for Environment Programs

Environment & Science (Science program)

Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 2103, Earth Sciences Centre, 416-946-8100 or 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 3 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/](http://www.environment.utoronto.ca/UndergraduatePrograms/ApplicationProcedures/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/JBS 229H1/STA (250H1, 255H1) (257H1, 261H1) or an approved alternative
4. Three 300+-level full 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 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 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 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/JBS 229H1/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)

Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 2103, Earth Sciences Centre, 416-946-8100 or 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 3 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 3 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 in 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 3 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

Group A:

ENV 200Y1; AST 121HI, 201HI; BOT 202Y1; CHM 200Y1; FOR 200HI; 201HI; GLG 103HI, 105HI, 205HI; JPU 200Y1; PHE 110HI; ZOO 200Y1, 214Y1, 215HI

Group B:

ABS 250HI, 402HI; ANT 200Y1, 204Y1, 315HI, 349HI, 364Y1, 366HI, 450HI; APS 203HI, 302HI (App. Sci. & Eng.); ECO 313HI, 314HI, 324Y1, 333Y1; ENV 223HI, 234Y1, 235Y1, 236Y1, 332HI, 333HI, 335HI, 340HI, 341HI, 350HI, 395Y1, 420Y1, 422HI, 423HI, 424HI, 440Y1, 441HI, 442HI, 443HI, 444HI, 445HI, 446HI, 447HI, 481HI, 482HI, 483Y1, 491Y1, 492HI, 493HI; FOR 300HI, 301HI, 302HI, 303HI, 400Y1, 401HI; GGR 233Y1, 330HI, 314HI, 331HI, 332HI, 333HI, 334HI, 335HI, 338HI, 393HI, 403HI, 409HI, 415HI, 418HI, 435HI, 451HI; HIS 318Y1, 404HI; HPS 202HI, 307HI, 313HI, 328HI; JAG321HI; JIE 307Y1; JUG 320HI; UNI 460Y1; PHL 273HI, 373HI; POL 201Y1, 318HI, 341HI, 346HI, 347Y1, 469HI; PSY 335HI; RLG 228HI, 311HI, 345HI, 484HI; SOC 205Y1, 385HI; UNI 260Y1, 360Y1; or an alternative approved by the Undergraduate Student Advisor of the Centre

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)

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 223HI, 320Y1, 332HI/333HI, 341HI, 422HI, 423HI
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 340HI, 440Y1 and ENV410HI, 420Y1/(443HI, 444HI)/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 3 program is limited.

Higher Years:

1. Program Foundation: JGE221Y1/JIE222Y1; ENV 223HI, 320Y1, 332HI/333HI, 341HI, 422HI, 423HI
2. Applied Professional Experience: ENV 340HI, 440Y1 or ENV410HI, 420Y1/(443HI, 444HI)/ 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.

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, 332H1/333H1, 341H1, 422H1/423H1
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.

Group A:

ENV 350H1, 422H1, 423H1, 424H1, 441H1, 445H1, 446H1, 447H1; JIE 307Y1

Group B:

ENV 223H1, 234Y1, 235Y1, 236Y1, 315H1, 332H1, 333H1, 335H1, 340H1, 395Y1, 420Y1, 440Y1, 442H1, 443H1, 444H1, 481H1, 482H1, 483Y1, 491Y1, 492H1, 493H1; GGR338H1; IDSBO2H1 (UTSC)

Group C (Social Science and Humanities):

ABS 250H1, 402H1; ANT 364Y1, 450H1; APS 203H1, 302H1 (App. Sci. & Eng.); ECO 313H1, 314H1; FOR 302H1, 303H1, 400Y1, 401H1; GGR 233Y1, 272H1, 273H1, 314H1, 330H1, 331H1, 332H1, 334H1, 335H1, 393H1, 415H1, 418H1, 435H1, 473H1; HIS 318Y1, 404H1; HPS 307H1, 313H1, 324H1, 328H1; JAG321H1; UNI 460Y1; PHL 273H1, 373H1; POL 346H1, 347Y1; RLG 228H1, 311H1, 345H1, 484H1; SOC385H1; UNI260Y1, 360Y1; other approved courses*

Group D (Life & Physical Science):

BIO 301H, 302H1, 303H1, 305H1, 306H1, 307H1, 308H1, 319H1, 321H1, 328H1, 365H1, 428H1, 440H1, 465H1, 468H1, 469H1, 470H1, 471H1, 495Y1, 496Y1; CHM 310H1, 409Y1, 410H1, 415H1; FOR 200H1, 201H1, 300H1, 301H1, 400Y1, 401H1, 412H1, 413H1, 416H1; GGR 303H1, 305H1, 307H1, 310H1, 333H1, 373H1, 403H1, 409H1, 413H1, 462H1; GLG 351H1, 436H1, 450H1; JFG 470H1, 475H1; PCL 362H1, 473Y1, 474Y1, 481H1; PSY335H1; ZOO 265Y1, 304H1, 309Y1, 373H1, 375H1; other approved courses*

*NOTE:

Some courses offered by other Faculties or at the University of Toronto at 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)

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 Major.

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 at Scarborough Calendar for 2006-07 (www.utscc.utoronto.ca) and Professor Paul Kingston, Supervisor of International Development Studies (416-287-7305 or 416-946-8974 or kingston@chass.utoronto.ca).

SECTION I:

Students must take all 3.5 full-course equivalents:

ECMA01H Introduction to Microeconomics, ECMA05H Introduction to Macroeconomics or ECO100Y1/105Y1
EESAO1H1 Introduction to Environmental Science or ENV200Y1
IDSBO1H1 International Development Studies: Political Economy
IDSBO2H1 International Development Studies: Development and Environment
POLB90H Comparative Development in International Perspective, POLB91H Comparative Development in International 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 2006-2007 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)

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 2103, 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 3 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 137YI; PHY 140YI

Second Year:

JGE221YI/JIE 222YI; MAT 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. One FCE from: PHY 305HI/307HI/308HI/406HI/407HI/478HI/479YI
3. Two additional FCE's from the fourth year Physics options

Environmental Chemistry (Science program)

Specialist program:

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. See under Chemistry for program details.

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 2103, Earth Sciences Centre, 416-946-8100 or david.powell@utoronto.ca, or Professor J. Mungall, Department of Geology, mungall@geology.utoronto.ca

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 3 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 206HI, 207HI, 216HI, (ENV 234YI/GLG217HI); CHM (220HI/221HI)/225YI/238YI; MAT 235YI/(223HI, 224HI)/STA(220HI, 221HI)

Third and Fourth Years:

1. GLG 340HI, 351HI, 436HI, 448HI, 450HI; JGE221YI/JIE222YI, ENV 236YI, 315HI, 321YI
2. ENV 410HI/JIE401HI, ENV 421HI/GLG470YI
3. One additional FCE from 300/400-series GLG courses

Major program:

(8 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:

1. GLG 206HI, 207HI, 216HI, 217HI
2. One FCE from: ENV 235YI; MAT 235YI/(223HI, 224HI); CHM (220HI/221HI)/225YI/238YI

Third and Fourth Years:

ENV 315HI; GLG 340HI, 351HI, plus one half-course equivalent from any 300/400 series GLG

Environment & Health (Science program)

Jointly sponsored by the New College Human Biology Program and 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 2103, Earth Sciences Centre, 416-946-8100 or david.powell@utoronto.ca, or Office of the Registrar, New College, 300 Huron Street, 416-978-2460.

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 3 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>.

(Program enrolment in 2001 and after)

First Year:

Students must complete BIO 150YI and at least two of CHM (138HI, 139HI)/151YI; GGR 100YI; MAT 135YI/137YI/157YI/JMB 170YI; PHY 110YI/138YI/140YI (PHY 138YI recommended). *Students are encouraged to select an FCE from ANT/ECO/GGR/HIS/SOC to maximize optional course choice in later years.

Second Year:

(BCH 210HI**, CHM 247HI); BIO 250YI; JGE221YI/JIE 222YI; one of ENV 234YI/(235YI/236YI); PHL 273HI, BIO 260HI/HMB 265HI

Third Year:

BIO 349HI/JLM 349HI; ENV 321YI; the other of ENV 234YI/(235YI/236YI); (STA 220HI, 221HI/JBS 229HI)

Fourth Year:

1. ENV 410HI/JIE410HI
2. ENV 421HI or a minimum of 0.5 FCE from any approved departmental or college independent research project
3. Two FCE including at least one 300-series course from ANA/ANT/BCH/BIO/BOT/CHM/HMB/IMM/JBI/JZM/LMP/MBY/NFS/PCL/ZOO/ECO 369YI/ENV 341HI/(GGR 409HI, 450HI, 451HI)/(HIS 460HI, 463HI)/NEW

367H1/(SOC 242Y1/(243H1, 244H1)/255Y1/(256H1, 257H1)/309Y1/312Y1/363H1) or any other approved course for which the student has appropriate prerequisites.

(Program enrolment in 2000 and earlier)

First Year:

Students must complete BIO 150Y1 and at least two of CHM 137Y1(138H1, 139H1)/151Y1; JGF 150Y1/JGG 150Y1; MAT 135Y1/137Y1/157Y1/JMB 170Y1; PHY 110Y1/138Y1/140Y1 (PHY 138Y1 recommended)*

Second Year:

BIO 250Y1; CHM 240Y1; ENV 221Y1/JIE 222Y1; one of ENV 234Y1/(235Y1/236Y1); CHM 222Y1/(STA 220H1, 221H1/ JBS 229H1/BIO 260H1/HMB 265Y1)

Third Year:

(BCH 310H1, JLM 349H1)/BCH 321Y1; ENV 321Y1; the other of ENV 234Y1/(235Y1/236Y1); (BIO 351Y1/IMM 334Y1/MPL 375Y1/MBY 375Y1/(MBY 377H1, 378H1)); (ZOO252Y1/PSL 302Y1)

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 from ANT 337Y1/(204Y1, 348Y1)/LMP 301H1/404Y1/NEW 367H1/NFS 284H1/ 384H1/486H1/ (ECO369Y1/HIS 460H1/463H1) or any other approved course for which the student has appropriate prerequisites

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. ** BCH 210H1 requires CHM138H1, 139H1
3. In choosing between ENV 235Y1 and ENV 236Y1, students should pay particular attention to their respective prerequisites
4. BCH 321Y1 requires CHM 222Y1/225Y1/220H1

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 2103, Earth Sciences Centre, 416-946-8100 or david.powell@utoronto.ca, or Professor Friesen, Undergraduate Coordinator, Department of Anthropology, Room 303, South Borden Building, 416-978-4505.

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 3 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/>

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; ARH 305H1; ENV 321Y1
2. The other of ENV 234Y1/236Y1; GGR 302H1/GLG 4**H1 (consult the Centre for approved GLG courses)
3. One FCE from ANT 410H1/434H1/436H1; ENV 410H1/ JIE410H1, ENV 421H1/ANT 409H1/415Y1/498H1/499H1

Environment & Toxicology (Science program)

Consult David Powell, Undergraduate Student Advisor, Centre for Environment, Room 2103, Earth Sciences Centre, 416-946-8100 or david.powell@utoronto.ca, or Professor 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 3 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>.

(Program enrolment in 2005 and after)

First Year:

Students must complete BIO 150Y1; CHM (138H1, 139H1)/151Y1 and at least two of GGR100Y1; 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. BIO 250Y1; JGE221Y1/JIE 222Y1; ZOO 252Y1/PSL 201Y1/ PSL 302Y1
2. CHM 217H1/ 220H1, CHM 247H1/249H1; ENV 234Y1/235Y1/236Y1

Third and Fourth Years:

1. BCH 210H1/BCH 242Y1; PCL 201H1; ENV 321Y1
2. PCL302H1, 362H1; PCL 376H1/JBS 229H1/STA 220H1/ STA 221H1 (see NOTE 1, below)
3. CHM 310H1/GGR 409H1/PCL 470Y1/481H1/LMP 301H1/363H1
4. PCL 473Y1
5. (ENV 410H1/JIE410H1, ENV 421H1)/PCL 474Y1 (see NOTE 2, below)

(Program enrolment in 2004 and earlier)

First Year:

Students must complete BIO 150Y1 and at least three of CHM (138H1, 139H1)/151Y1; GGR100Y1; 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; ENV 221Y1/JIE 222Y1; ZOO 252Y1/PSL201Y1/PSL302Y1
2. CHM 220H1, PCL 376H1/JBS 229H1/STA 220H1/ STA 221H1 (see NOTE 1, below)

Third and Fourth Years:

1. (BCH 310H1, JLM 349H1/BIO349H1)/BCH 242Y1/(BCH 210H1, PCL 201H1); ENV 321Y1
2. PCL302H1, 362H1; and one of ENV 234Y1/(235Y1/236Y1)
3. CHM 310H1/GGR 409H1/PCL 470Y1/481H1/LMP(301H1/363H1)
4. PCL 473Y1
5. The other of ENV 234Y1/(235Y1/236Y1), (ENV 410H1/JIE410H1, ENV 421H1)/PCL 474Y1(See NOTE 2, below)

Notes:

1. PCL 376H1 is a prerequisite for students intending to take PCL 474Y1 instead of (ENV 410H1, ENV 421H1)
2. 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

Directed Environmental Minors

Consult David Powell, Undergraduate Student Advisor, the Centre for Environment at 416-946-8100 or david.powell@utoronto.ca, or <http://www.environment.utoronto.ca>

Environmental Anthropology (Arts program)

Consult the Undergraduate Office, Department of Anthropology (416-978-6414), Sidney Smith Hall, Rm. 1030

Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. ANT 100Y1
2. ANT 200Y1/203Y1/204Y1
3. Two FCE's from: ANT 315H1/333Y1/365Y1/420H1/429Y1/450H1/453H1

Environmental Biology (Science program)

Consult David Powell, Undergraduate Student Advisor, the Centre for Environment at 946-8100 or david.powell@utoronto.ca, or www.environment.utoronto.ca

Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

BIO 150Y1; ENV 234Y1; BIO 319H1, 321H1, 323H1, 324H1

Environmental Chemistry (Science program)

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, 220H1/225Y1, 238Y1, 247H1/249H1
3. ENV235Y
4. Any two of CHM 310H1, 410H1, 415H1

Environmental Economics (Arts program)

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 and having a CGPA of 2.0.

Minor program:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. ECO 100Y1/105Y1
2. ECO 200Y1/206Y1
3. ECO 220Y1/227Y1/STA (250H1, 255H1)/(257H1, 261H1)
4. One full course at the 300+ level, including at least one of ECO 313H1 and/or ECO 314H1

Note:

The minor in Environmental Economics cannot be completed without taking MAT133Y or its equivalent.

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. 2103 (416-946-8100, or david.powell@utoronto.ca).

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.

Environmental Geosciences (Science program)

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. CHM (138H1, 139H1)/151Y1
2. GLG 206H1, 207H1, 216H1, 217H1, 351H1; ENV 315H1

Geographic Information Systems (Arts program)

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)

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: 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)

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 31 for Key to Course Descriptions

To find ENV course categories for Distribution requirement purposes (see page 25), 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: 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.

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.

Exclusion: JIE 222Y1/GGR 233Y1

Recommended Preparation: GGR 100Y1/107Y1;

This is a social science course.

ENV223H1 Fundamental Environmental Skills (formerly INI223H1) 26L, 13T

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 223H1

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 some weekend field trips (total cost \$50.00). (Provided by the Departments of Botany, Geology and Zoology and the Faculty of Forestry).

Prerequisites: BIO150Y1/GGR100Y1/JGF150Y1/JGG150Y1

This is a Science course.

ENV235Y1 Physics and Chemistry of Planet Earth 52L, 26T

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 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 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 (138H1, 139H1)/151Y1/157Y1, MAT135Y1/137Y1/JMB170Y1, PHY138Y1/140Y1

This is a Science course.

ENV236Y1 Human Interactions with the Environment 52L, 9P

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 and

the diffusion of humans across the globe. It focuses on human environment interactions in North America since the last ice age, and concludes by considering some of the environmental consequences of European settlement. (Offered in alternative, even numbered, years)

Prerequisite: BIO150Y1/GGR100Y1/JGFI50Y1/JGG 150Y1 or permission of instructor

This is a Science course.

ENV299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 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/INI235Y1/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.

ENV315H1 Chemical Analysis of Environmental Samples 26L, 39P

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. 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 for most of the techniques covered. These include INAA, XRD, XRF, SEM, AA, ICPOES, GC, IC and ICPMS.

Exclusion: CHM217H1, 314Y1; GLG335H1

Prerequisite: CHM(138H1, 139H1)/151Y1 and any second year ENV or GLG courses

This is a Science course.

ENV320Y1 National and International Environmental Policy Making 52L, 26T (formerly INI 320Y1)

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

ENV321Y1 Approaches to Environmental Issues 52L, 24T (formerly ENV221Y1)

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.

ENV332H1 Culture and Nature 26S (formerly INI332H1)

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: INI332H1

This is classified as BOTH a Social Sciences and a Humanities course.

ENV333H1 Ecological Worldviews 26S (formerly INI333H1)

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 333H1

This is classified as BOTH a Social Sciences and a Humanities course.

ENV335H1 Environmental Design 39S (formerly INI335H1)

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 335H1

This is a Social Science course.

ENV340H1 Informed Environmental Practice 26S, 13T (formerly INI340H1)

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 340H1

This is a Social Science course.

ENV341H1 Environment and Human Health 26L, 13T (formerly INI341H1)

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 341H1

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.

ENV395Y1 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/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

ENV410HI Environmental Research Skills 26L (formerly JIE410HI)

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: ENV410HI if taken as a program requirement

Exclusion: INI 420Y1

This is a Social Science course.

ENV421HI 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 ENV410HI.

Prerequisite: JGE221Y1/JIE222Y1, ENV 320Y1/321Y1 or permission of the Undergraduate Student Advisor

Corequisite: ENV410HI

This is classified as BOTH a Social Sciences and a Humanities course.

ENV422HI Environmental Law (formerly INI422HI) 26S

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.

ENV423HI Public Policy and Environment 26S (formerly INI421HI)

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 421HI

This is a Social Science course.

ENV424HI 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: ENV340HI; 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.

ENV441HI Politics of the Environment 26S (formerly INI494HI)

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 494HI

This is a Social Science course.

Centre for Environment

ENV442HI Corporate Perspectives on the Environment (formerly INI442HI) 39S

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 442HI

This is a Social Science course.

ENV443HI/ Applied Environmental Research Course 444HI (formerly INI443HI/444HI)

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 443HI/444HI

This is a Social Science course.

ENV445HI US Environmental Politics (formerly INI445HI) 26S

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 445HI

This is a Social Science course.

ENV446HI Cities & Urban Environmentalism in a Global Context (formerly INI446HI) 26S

Provides an opportunity for in-depth exploration of the implications for urban governance and environmental protection 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 446HI

This is a Social Science course.

ENV447HI The Power of Economic Ideas (formerly INI447HI) 26S

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 447HI

This is a Social Science course.

ENV481HI/ Special Topics in the Environment 26S

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 the Environment (formerly INI497YI) 52S

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 497YI

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: ENV421HI

ENV491YI/ Independent Studies 492HI/ Project (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: INI491YI/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)

Equity Studies: see New College

Estonian: See Slavic Languages and Literatures

Ethics, Society & Law: see Trinity College

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 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.

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)

NOTE: Some of the courses listed below may have prerequisites.

First Year:

One of the following: EST 100Y1; FIN 100Y1; FSL 121Y1/161Y1/181Y1; GER 100Y1/200Y1; 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 161Y1/181Y1/261Y1/264Y1/281Y1; 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
2. One full course equivalent from: EST 300Y1; FIN 300Y1; FSL 261Y1/262Y1/264Y1/281Y1/361Y1/362Y1/366H1/381Y1/382H1/383H1; GER 300H1/370H1/400Y1/470H1; 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, 294H1, 296H1, 297H1, 298H1, 310Y1, 331H1, 390H1, 391H1, 392H1,

394H1, 395H1, 396H1, 397H1, 398H1, 490H1, 491H1, 492H1, 495H1, 496H1, 497H1; FIN 210Y1, 240H1, 250H1, 260H1, 310H1, 410Y1; GGR 339H1, 344H1, 361H1, 439H1; GER 150H1, 204H1, 205H1, 232H1, 305H1, 325H1, 334H1, 335H1, 351H1, 352H1, 410H1, 422H1; HIS 241H1, 242H1, 245Y1, 251Y1, 310Y1, 317H1, 331H1, 334Y1, 337Y1, 338Y1, 339Y1, 341Y1, 342Y1, 344Y1, 348H1, 353Y1, 354Y1, 357Y1, 388Y1, 407H1, 414H1, 429Y1, 445H1, 448Y1, 451H1, 453H1, 461H1, 477Y1, 483Y1; HUN 320Y1, 351H1, 450H1, 451H1, 461H1; INI 382Y1, 462H1; ITA 210Y1, 240Y1, 245Y1, 248Y1, 303H1, 340Y1, 347H1, 356/357Y1, 358/359Y1, 410H1, 441H1, 455H1, 472Y1; JEF 100Y1; JHP 453Y1; JPD 439Y1; PHL 210Y1, 215H1, 216H1, 220H1, 265H1, 275H1, 310H1, 311H1, 312H1, 315H1, 316H1, 318H1, 320H1, 321H1, 322H1; POL 302Y1, 317Y1, 320Y1, 321Y1, 324Y1, 344Y1, 349Y1, 405Y1, 414H1, 415H1, 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

European Studies Courses

See page 31 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

Courses Offered Through the Berlin Centre: Consult www.summerabroad.utoronto.ca for further information.

FAH390Y0 Art and Power

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.

Recommended preparation: FAH100Y1/101H1/102H1

This is a Humanities course. This course may be counted as an EUR course.

GGR300Y0 Special Topics in Geography: The City as Problem and Promise – Berlin as a Case Study

This course examines some of the policies of Berlin and activities of its citizens and non-profit organizations to address economic, social, and land use concerns. In particular it looks at social movements in the city, economic development, ethnic integration, neighbourhood revitalization. How do European cities differ from North American cities in the problems they face and policies they design to deal with them? Does the city represent a problem or a promise for the future?

This is a Humanities/Social Science course, and can be counted towards both the Urban Studies and Political Science programs at the University of Toronto. This course may be counted as a EUR course.

Fine Art History and Visual Studies

Faculty

Professors Emeriti

K. Andrews, MFA
H.A. Brooks, MA, Ph D, D Eng
L.E. Eleen, MA, Ph D
L.E. Johnson, 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)
R. Siebelhoff, MA, Ph D (S)
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
M. Gotlieb, MA, M Phil, Ph D (T)
E.M. Kavaler, MA, Ph D
E.M.M. Legge, MA, Ph D (V)
*J. Massey
A. Nagel, DEUG, MA, Ph D
N. O'Laoghaire, MA, Ph D
L. Safran, MA, Ph D
P. Scrivano, MA, Ph D
*J. Tod
K. Tomczak
J.T. Wollesen, Dr. phil. habil. (V)

Assistant Professors

A. S. Cohen MA, Ph D
S. Lloyd MFA
E. Pien, MFA
J. Purtle, MA, M Phil, Ph D
S. Schelle
S. Wiitasalo

Senior Lecturer

G. Hawken, BA

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

*Visiting Associate Professor

Courses in the Department of Fine 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 Fine 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

Fine Art History and Visual Studies

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 FAH 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 Fine 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 Fine Art Website and Undergraduate Handbook at www.fineart.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: Sue Lloyd (until December 30, 2006); George Hawken, (from January 1, 2007), Number 1, Spadina Crescent, Room 226 (416-946-8153)

Fine Art Programs

Fine Art (History of Art) (Arts program)

Students may enrol in the Major or Minor program in Fine Art History after completing at least four courses; there is no minimum GPA required. Students may enrol 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 full courses or their equivalent)

At least nine FAH courses, and two courses 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 courses may be taken at the 200-level.

4. 4.5 courses at the 300+level, **of which at least one full course must be at the 400-level.**
5. No more than 1.5 FCEs at the 400-level will be counted toward fulfilling program requirements.
6. 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 courses may be taken in combination.
3. Approved courses in other programs may be substituted for up to two FAH courses. See Department website for details.

Major program:

(6 full courses or their equivalent)

At least six FAH courses 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 courses at the 300+ level, **of which at least one half-course must be at the 400-level.**
3. No more than 1.0 FCE at the 400-level will be counted toward fulfilling program requirements.
4. No more than 7.5 FCEs of FAH courses may be taken in total.

Notes:

1. No more than 13 FAH and VIS courses may be taken in combination; of these, no more than 7.5 may be FAH courses.
2. Approved courses in other programs may be substituted for up to one FAH course. See Department website for details.

Minor program:

(4 full courses or their equivalent)

At least four FAH courses fulfilling the following distribution requirements:

1. FAH 102H1
2. At least one half course in two of the four FAH Groups (see below for definitions)
3. At least one course 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 Programs (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

Fine Art History Courses

See page 31 for Key to Course Descriptions

For Distribution Requirement purposes (see page 25), 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 45.

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,

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and the legacies left by Renaissance art to modern life and culture.

Exclusion: FAH200Y5/274H/274H5 I

FAH231H1 Baroque Art and Architecture 26L, 11T
(formerly FAH279H1)

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: FAH200Y5/279H1/279H5

FAH245H1 Modernism and anti-Modernism, c. 1750–1900 26L, 11T

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: FAH280H1/287H1/287H5

FAH 246H1 The Rise and Fall of the Modernist Empire c. 1900 to the Present 26L, 11T

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: FAH288H1/288H5/289H1/289H5

FAH248H1 Canadian Painting and Sculpture 26L, 11T
(formerly FAH286H1)

An introductory survey of the history of painting and sculpture in Canada from the 17th to the 20th century.

Exclusion: FAH286H1

FAH260H1 The Artistic Landscape of East Asia 26L, 11T
(formerly FAH290H1)

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: FAH290H1

FAH262H1 Art and Visual Experience in Modern and Contemporary East Asia 26L, 11T

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.

FAH270H1 Architecture: Rituals and Monuments 26L, 11T

A survey of architecture from pre-history to the start of modernism, with attention given to the ways in which architecture shapes human experience.

FAH272H1 Modern Architecture from 1750 to the Present 26L, 11T

An introduction to the buildings, issues and ideas from Neoclassicism to the present.

Exclusion: FAH282H1

FAH299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

Note

In addition to the prerequisites listed below, enrolment is also possible for each course with permission of instructor.

FAH300H1 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: FAH205H1/207H1

Exclusion: CLA389H1

FAH303H1 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: FAH205H1/207H1

FAH304H1 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: FAH205H1/206H1

Exclusion: CLA362H1

FAH305H1 Art and Archaeology of the Roman Empire 26L

The art, archaeology and architecture of the Roman empire outside Rome.

Prerequisite: FAH205H1/207H1

Exclusion: FAH302H1

FAH309H1 City of Rome 26L

The art, architecture and archaeology of the city of Rome to AD476.

Prerequisite: FAH205H1/207H1

Exclusion: FAH302H1

FAH310H1 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: FAH205H1/207H1

FAH311H1 Understanding Greek Sculpture 26L

Examination of the contexts in which Greek statuary was made, displayed and viewed, and its cultural significance.

Prerequisite: FAH205H1/207H1

FAH312H1 Art of the Hellenistic Age 26L
(formerly FAH317H1)

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: FAH205H1/207H1

Exclusion: FAH317H1

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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

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

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<p>FAH345HI The Romantic Movement in French Art (formerly FAH383HI) 26L</p> <p>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</p>	<p>FAH354HI Recent and Contemporary Canadian Art (formerly FAH386HI) 26L</p> <p>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</p>
<p>FAH346HI Impressionism (formerly FAH378HI) 26L</p> <p>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</p>	<p>FAH361HI Art and Ritual in East Asia 26L</p> <p>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</p>
<p>FAH347HI Cubism and Related Movements (formerly FAH384HI) 26L</p> <p>An investigation of the birth and development of Cubism, Futurism and Orphism in Europe and North America. Prerequisite: FAH245HI/246HI/287HI/288HI Exclusion: FAH384HI</p>	<p>FAH362HI Landscape and the Built Environment in East Asia 26L</p> <p>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</p>
<p>FAH348HI The Dada and Surrealist Tradition (formerly FAH385HI) 26L</p> <p>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</p>	<p>FAH363HI The Mechanics of the Image in East Asia 26L</p> <p>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</p>
<p>FAH349HI Abstraction in Twentieth-Century Art (formerly FAH387HI) 26L</p> <p>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</p>	<p>FAH364HI Art and Architecture in South Asia 26L</p> <p>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</p>
<p>FAH350HI Minimalism (formerly FAH389HI) 26L</p> <p>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</p>	<p>FAH365HI Colonialism, Nationalism and Modernity in South Asian Art 26L</p> <p>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</p>
<p>FAH351HI Theory in Art History (formerly FAH388HI) 26L</p> <p>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</p>	

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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
Recommended preparation: FAH260HI

FAH370HI European Renaissance Architecture (formerly FAH324HI) 26L

Architecture and architectural theory ca. 1400 – ca. 1600.
Prerequisite: FAH270HI/278HI
Exclusion: FAH324HI

FAH371HI Architecture and Urbanism in Baroque Europe (formerly FAH355HI) 26L

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 Historicism ca. 1750–ca. 1900 (formerly FAH281HI) 26L

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 (formerly FAH282HI) 26L

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: Architecture after 1945 (formerly FAH382HI) 26L

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 (formerly FAH395HI) 26L/52L

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 (formerly 329HI) 26L

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/Y0 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

Studies Abroad

Studying original works of art and architecture is a key component in the history of art. The Department of Fine 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, 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 Architecture

Prerequisite: one FAH half course in ancient art, architecture, and archaeology/permission of instructor

FAH392Y0 Studies Abroad in Medieval Art and Architecture

Prerequisite: one FAH half course in medieval art and architecture/permission of instructor

FAH393Y0 Studies Abroad in Renaissance and 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 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 Architecture

Prerequisite: one FAH half course in Canadian art and architecture/permission of instructor

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FAH396Y0 Studies Abroad in Asian Art and Architecture
Prerequisite: one FAH half course in Asian art and architecture/
permission of instructor

FAH397Y0 Studies Abroad in Architectural History
Prerequisite: one FAH half course in architectural history/
permission of instructor

FAH398H0/ 399Y0 Independent Experiential Study Project
An instructor-supervised group project in an off-campus setting.
See page 45 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/
CLA362HI/389HI

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/CLA362HI
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/CLA389HI
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

Fine Art History and Visual Studies

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

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/237YI/305YI/331YI/418HI

FAH462HI Outside East Asian Art 26S

Methodologically- and historiographically-focused seminar that attends to the contiguities 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/237YI/305YI/331YI/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/237YI/305YI/331YI

Fine Art History and Visual Studies

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/237YI/305YI/331YI

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 26S
(formerly FAH450HI)

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 26S
(formerly FAH377HI)

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 26S
(formerly FAH454HI)

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 26S
(formerly FAH455HI)

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

FAH483HI Introduction to Conservation: Materials, Deterioration, and Preservation in Art and Material Culture 26S
(formerly FAH453HI)

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 26S
(formerly FAH459HI)

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 26S
(formerly FAH456HI)

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

Fine Art History and Visual Studies

Visual Studies Courses

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 Fine Art web site.

Note 3.

Exclusions have been included for many FAS studio courses at the University of Toronto at Mississauga. St George students wishing to take any remaining FAS courses there will need the written permission of the Undergraduate Coordinator for VIS.

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

This course is designed to introduce students to Video Art production and post-production techniques. Students conceive, shoot and edit a video tape in a hands-on-manner under the guidance of the instructor. The production of the Video Art project occurs within the framework of seminars, exhibitions and current critical writing on issues particular to Video Art. (A studio fee of \$75 payable with tuition.)

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

Fine Art History and Visual Studies

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

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

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: VIS120HI, 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: VIS120HI, VIS130HI and one 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

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.

Fine Art History and Visual Studies

Prerequisite: VIS120HI, I30HI and permission of instructor

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, I30HI, permission of Undergraduate Secretary

Note:

Only three of VIS311HI, VIS403HI, VIS404HI, VIS405HI may be taken.

Given by Members of the Department of Slavic Languages and Literatures

Faculty

Professor Emeritus

G. Bisztray, MA, Ph D

Professor

B. Vähämäki, MA, Ph Lic, Ph D

Assistant Professor

T. Kirss, MA, 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 Eliel and Eero Saarinen.

Finnish studies at the University of Toronto are presently engaged in teaching the Finnish language - a three-year sequence - and in offering other courses on the literature and culture of Finland.

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

Enrolment in the Estonian, Finnish, or Hungarian program requires the completion of four courses; no minimum GPA required.

Estonian Studies (Arts program)

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)

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)

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

See page 31 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, Lauphis). 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

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

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 Gause, Aki and Mika Kaurismäki. (Offered in alternate years)

FIN300HI Advanced Finnish (formerly FIN300YI) 26S, 13P

FIN300H 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, Tgrellicks, 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

Finno-Ugric Studies

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

FIN420YI Independent Study TBA

A reading and research project

Prerequisite: Permission of instructor

FIN430YI 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.

HUN100YI 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.

HUN200YI Intermediate Hungarian 104P

Review of descriptive grammar; studies in syntax; vocabulary building; intensive oral practice; composition; reading and translation.

Prerequisite: Permission of instructor

HUN310YI 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.

HUN320YI 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. Readings in Hungarian.

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: Reflections of a Changing Society in Hungarian Literature 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. Readings in English (also available in Hungarian).

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: The Hungarian 20th Century Novel before World War II 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. Readings in English (also available in Hungarian).

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. Readings in English (also available in Hungarian).

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

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

M. Campbell, MA, Ph D
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.).

A major in Forest Conservation Science is available in the science stream and is intended to build on a student's interest in forestry and related issues. Students should consider combining this program 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, UTM or UTSC may be eligible for inclusion.)

First Year:
BIO150Y1; Two Science FCEs (GGR100Y1; CHMI38H1, 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; BOT 251Y1; EES C20H1 (UTSC); GGR 205H1, 206H1, 272H1, 273H1; PHL 273H1; ENV236Y1; JIE222Y1

Third Year:
1. FOR301H1, 305H1. At least One FCE from FOR 300H1, 302H1, 303H1, 306H1; BIO321H1

2. 0.5 FCE from: BIO 319HI, 323HI, 328HI; BOT 307HI, 340HI, 341HI
3. At least 1.5 FCE from: BIO 302HI, 303HI, 306HI, 308HI, 324HI, 465HI; GGR303HI, 305HI, 310HI; ZOO 324YI, 360HI, 361HI, 386HI, 388HI, 389HI

Fourth Year:

1. FOR 400YI, 401HI
2. One FCE from: FOR 403HI, 404HI, 405HI, 408HI, 412HI, 413HI, 416HI, 417HI; GGR403HI; INI 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, UTM or UTSC 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; JIE222YI

Third Year:

FOR305HI; 1.5 FCE from: FOR 300HI, 301HI, 302HI, 303HI, 306HI; BIO321HI

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

Fourth Year: FOR400YI

Forest Conservation (Arts program)

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 minor program 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, UTM or UTSC 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
3. One FCE from: ABS 201YI; ANT 204YI; JIE222YI; GGR 233YI; PHL 273HI

Third Year:

1. FOR301HI, 305HI; At least One FCE from: FOR 300HI, 302HI, 303HI, 306H; BIO321HI
2. At least One FCE from: ANT 365YI; ENV 321YI; GGR 331HI, 393HI; HIS 318YI; INI 320YI, 332HI; UNI 302HI, 315YI, 317YI; JAG321HI

Fourth Year:

1. FOR 400YI, 401HI
2. One FCE from: ANT 450HI, 453HI; FOR 403HI, 412HI, 416HI, 417HI; INI 421HI, 422HI, 447HI, 494HI; INI 440YI, 442HI; JFG 470HI, 475HI; JIE 410HI

Minor program:

(4 full courses or their equivalent)

First Year: One of ANTI00YI/ECO100YI/ENV200YI/ GGR100YI/107YI

Higher Years: 3 FCEs from (FOR200HI, 201HI, 301HI, 302HI, 303HI, 305HI, 306HI, 400YI, 401HI)

Forest Conservation Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25) 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

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; 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

Forest Conservation

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

Emerging societal values for forests and environment, methods for eliciting and analyzing societal values, and methods for incorporating societal values in forest resource 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 nutrient and energy. This course will include a substantial field and lab component.

Prerequisite: FOR200HI/201HI

Recommended preparation: BIO150YI/ENV234YI

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

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

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 (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 (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

FOR408HI 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, ZOO360HI or ZOO361HI

This is a Science course

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/ZOO322HI (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

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 (UTSC)
D.E. Bouchard, AM, Ph D (V)
P.A.R. Bouissac, LèsL, DES, D Phl (V)
N. Boursier, DES, CAPES, D 3e C (U)
Fl. Case, MA D 3e (N)
J.G. Chidaine, AM, Ph D (V)
C. Cloutier-Wojciechowska, LèsL, DES, MA, M Ph, DPS,
DUP (UTM)
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 (UTSC)
A.G. Falconer, MA, D 3e C (U)
P. Fitting, MA, Ph D (N)
J.F. Flinn, MA, D 3e C (U)
P. Grillo, MA, Ph D (SM)
C.M. Grisé, MA, Ph D (SM)
A.R. Harden, AM, Ph D (V)
D.M. Hayne, MA, Ph D, D 3e C (U)
E.A. Heinemann, MA, Ph D (N)
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)
N. Maury, LenD, D 3e C (T)
J.A. McClelland, MA, Ph D (V)
B. S. Merrilees, MA, D 3e C (V)
P.W. Nesselroth, MA, Ph D (U)
C.R. Parsons, MA, Ph D (U)
A. Rathé, LèsL, LèsD, Ph D (V)
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 (UTM)
T.R. Wooldridge, BA, D 3e C (T)

Associate Professor and Chair of the Department

P. M. Bhatt, MA, Ph D (SM)

Associate Professor and Associate Chair

TBA

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 (WW)
J. Paterson, MA, Ph D (I)
P.J.G.O. Perron, BA, D 3e C (U)
Y. Roberge, MA, Ph D (SM)

Associate Professors

B. Bolduc, MA, Ph D (V)
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 (UTM)
B. Havercroft, MA, Ph D (V)
D. Kullmann, MA, PhD (SM)
M. Lord, MA, Ph D (UTM)
P. Michelucci, MA, Ph D (UTM)
S. Mittler, MA, Ph D (UTSC)
A. Motsch, MA, Ph D (V)
J. Ndayiragije, MA, Ph D (UTSC)
E. Nikiema, MA, Ph D (UTM)

Assistant Professors

S. Benharrech, MA, PhD (UTM)
M. Pirvulescu, MA, Ph D (UTM)
Y. Portebois, MA, Ph D (SM)
P. Riendeau, MA, Ph D (UTSC)
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 (UTM)
D. Issa-Sayegh, MA, D 3e C (SM)
F. Mugnier-Manfredi, MA, Ph D (UTSC)
G. Paray-Clarke, MA, Ph D (SM)

Lecturers

C. Beauquis, MA, PhD (UTSC)
K. McCrindle, MA, Ph D (UTSC)
M. Tsimenis, MA, DES, Ph D

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 five main sequences: Literature, Linguistics, French as a Second Language, French Culture, 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) 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 incoming students to work at the most suitable level to develop their skills of reading, writing, listening and speaking French. 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: Completion of at least two courses in French including one at the 200-level may entitle students to participate in the Third Year Study Elsewhere Program at either Laval University in Québec, or in France. Information on these programs and on the Second Language Summer Program is

available on-line at 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.

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.

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, it is often recommended that a student take 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 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 and make an appointment to take the test at the Multimedia Centre. The test must be taken prior to registration in order to insure enrolment in the appropriate course.

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.

Counselling:
50 St. Joseph St., Rm. 226 (416-926-2333), email: french.undergraduate@utoronto.ca

Enquiries:
50 St. Joseph St., Rm. 210 (416-926-2302), email: french.secretary@utoronto.ca; website: www.chass.utoronto.ca/french

French Programs

Enrolment in all French programs requires the completion of four courses. No minimum GPA is required.

Note:

FRE 172HI 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.
2. FRE 240Y1
3. FRE 272Y1/273Y1

French

- FSL341Y1, 442HI, 443HI. Students exempted from FSL341Y1 may replace it with any FRE course. Students with 77% in FSL 341Y1 may replace FSL 442HI, 443HI with a 300+ series FRE course.
- Six additional FRE Literature courses including at least one course from each of Groups B, C and D. At least three of these courses must be at the 300/400-level, including 1.5 courses at the 400-level, and at least 1.0 from: FRE 320Y1, 322Y1, 324Y1, 326Y1.

Major program:

(8 full courses or their equivalent)

- FSL 221Y1. Students exempted from this course may replace it with FRE 250Y1.
- FRE 240Y1
- FRE 272Y1/273Y1
- FSL 341Y1. Students exempted from this course may replace it with any FRE course.
- Four additional FRE Literature courses including at least one half course from each of Groups B, C and D. At least two of these courses must be at the 300/400-level, including 1.0 course at the 400-level.

Group B:

FRE 420HI

Group C:

FRE 304HI, 324Y1, 332HI, 360HI, 367HI, 449HI, 450HI

Group D:

FRE 314HI, 317HI

Note:

THE THREE GROUPS ABOVE INCLUDE ONLY COURSES OFFERED IN 2006-2007.

French Language and French Linguistics (Arts programs)

Specialist program:

(10 full courses or their equivalent)

- FSL 221Y1. Students exempted from this course may replace it with FRE 172HI and an additional FRE Linguistics half-course.
- FRE 272Y1
- FRE 210Y1/240Y1
- FSL 341Y1, 442HI, 443HI. Students exempted from FSL 341Y1 may replace it with any FRE course. Students with 77% in FSL 341Y1 may replace FSL 442HI, 443HI with a 300+ series FRE course.
- FRE 376HI, 378HI
- 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)

- FSL 221Y1. Students exempted from this course may replace it with FRE 172HI and an additional FRE Linguistics half-course.
- FRE 272Y1

- FRE 210Y1/240Y1
- FSL 341Y1. Students exempted from this course may replace it with any FRE course.
- FRE 376HI, 378HI
- 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)

- FSL 221Y1. Students exempted from this course may replace it with higher-level FSL courses of their choice.
- JFI 225Y1, FRE 272Y1, FSL 277Y1, 341Y1
- FRE 210Y1/240Y1
- Two additional FRE courses among the following: FRE 375Y1/384HI/385HI/473HI

French as a Second Language (Arts Program)

Minor program:

(4 full courses or their equivalent)

- FSL 221Y1. Students exempted from this course may replace it with higher-level FSL courses of their choice.
- One 300-level FSL course
- One 400-level FSL course
- 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)

- FRE 375Y1
- FRE 480Y1, 481Y1
- An additional FRE course at the 200+ level

French Studies (Arts Program)

Minor program:

(4 full courses or their equivalent)

- FSL 221Y1
- 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 280HI, 318HI, 378HI, 383HI, 400HI, 404HI; FRE literature courses; HIS 314Y1, 349Y1, 388Y1, 413HI, 447HI, 467HI; JEF 100Y1; JVF 323HI; INI 385Y1, 386HI; SMC 228Y1

For other programs in French, see also: Drama and French; Modern Languages and Literatures; Linguistics and Languages.

French Courses

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.

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 French Department 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

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.

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) or the Department of French Undergraduate brochure for more details.

FCS195HI French Culture from 26S
Napoléon to Astérix

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 26S
Studies I: Pleasures of Versailles: Music in the Grand Century of France

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 26S
Studies I: The Art and Culture of the Networked Society

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 26S
Studies I: The Myth and Mystique of Provence

The paradoxical mystique of Provence, through its history, architecture, art, literature, cinema, cuisine, and social customs, from Gallo-Roman times to the present. Topics include: Roman Provence; the Moorish influence; the troubadours and "courtly love"; the Provençal Impressionists; the films of Marcel Pagnol; Peter Mayle's *A Year in Provence*, the truffle hunt and the perfect bouillabaisse.

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 2006-2007).

French

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: The Other Voice: Diaries of Women Writers in France and Quebec
An introduction to the French tradition of cultural studies, organized around readings by and on Michel Foucault and Michel de Certeau. Presentation of French cultural theory and practice within a framework of intellectual history, with focus on the emergence of modern subjectivity. Theoretical access to the historical and philosophical debates that define the Humanities today.
Prerequisite: At least 5 courses in any subject.

FCS 392HI Special Topics in French Cultural 26S
Studies II
Studies on an individual writer or a specific area of literature. (Not offered in 2006-2007).
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. (Not offered in 2006-2007).
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 2006-2007).
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 2006-2007)
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) 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 Writers 26S
An analysis of selected texts by women writers, emphasizing particular themes and textual strategies used to represent the female subject, her relationship to language, her reality and world view.
Prerequisite: FRE 240Y1

<p>FRE312HI Novels of the Quiet Revolution: Québec Fiction of the 60s 26S</p> <p>A study of five of the most significant Québec novels published during or dealing with the Quiet Revolution as examples of literary creations reflecting a society in the process of defining and liberating itself in the turbulent decade of the sixties. Authors may include Aquin, Bessette, Blais, Caron, Carrier, Jasmin, Paradis. (Not offered in 2006-2007; offered in alternate years). Prerequisite: FRE 240Y I</p>	<p>FRE324YI The 19th Century: The Age of Revolutions 52S</p> <p>From the Neo-Classicism of the Napoleonic era to Zola's Naturalism, a study of the way in which 19th century French literature is shaped by the various revolutions in the fields of science, language, politics and the arts. Prerequisite: FRE 240Y I</p>
<p>FRE314HI From Modernism to Postmodernism: Contemporary Québec Fiction 26S</p> <p>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 240Y I</p>	<p>FRE326YI The 20th Century: From Surrealism to Post-modernism and Beyond 52S</p> <p>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 2006-2007; offered in alternate years). Prerequisite: FRE 240Y I</p>
<p>FRE315HI Family Matters in Québec Theatre 26S</p> <p>A study of the characteristic themes and structures of Québec drama, the quest for social and individual identity, and the affirmation of a distinctly québécois theatrical expression in works by Gélinas, Dubé, and Tremblay. (Not offered in 2006-2007; offered in alternate years). Prerequisite: FRE 240Y I</p>	<p>FRE332HI Francophone Literature I 26S</p> <p>An introduction to francophone literature of Africa and the Middle East. Different approaches - textual, ideological, historical - to the works of francophone writers living and writing outside Québec or France. Prerequisite: FRE 240Y I</p>
<p>FRE317HI Explorations of Self in Contemporary Québec Theatre 26S</p> <p>From the intimate plays of Marie Laberge to the multimedia explorations of Robert Lepage, Québec dramatists continue to experiment, often through metatheatrical devices, with various ways of communicating the search for self-understanding. Prerequisite: FRE 240Y I</p>	<p>FRE359HI Studies in Drama I: Pre-1800 26S</p> <p>A study of selected pre-1800 French plays from various theoretical and ideological perspectives, involving questions of dramaturgy, staging techniques and productions. (Not offered in 2006-2007; offered in alternate years). Prerequisite: FRE 240Y I</p>
<p>FRE320YI The 17th Century: The Rise of Classicism 52S</p> <p>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. (Not offered in 2006-2007) Prerequisite: FRE 240Y I</p>	<p>FRE360HI Studies in Drama II: Post-1800 26S</p> <p>A study of selected post-1800 French plays from various theoretical and ideological perspectives, involving questions of dramaturgy, staging techniques and productions. Prerequisite: FRE 240Y I</p>
<p>FRE322YI The 18th Century: The Age of Enlightenment 52S</p> <p>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, Laclous, Graffigny, and Beaumarchais. (Not offered in 2006-2007; offered in alternate years). Prerequisite: FRE 240Y I</p>	<p>FRE364YI The Golden Age of the Novel 52S</p> <p>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. (Not offered in 2006-2007; offered in alternate years). Prerequisite: FRE 240Y I</p>
<p>JFV323HI Semiotics and Literature I 26S</p> <p>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. Prerequisite: At least 5 course credits in any subject. Recommended preparation: FRE240Y I/VIC120Y I</p>	<p>FRE365HI Pre-Revolutionary Prose Fiction 26S</p> <p>The various forms and transformations of the novel from its beginnings in the 16th and 17th centuries until the French Revolution. The corpus may include pastoral, historical, epistolary, philosophical, and libertine novels as well as the novella. (Not offered in 2006-2007) Prerequisite: FRE 240Y I</p>
	<p>FRE367HI Studies in the 20th Century French Novel I 26S</p> <p>An analysis of major French novels of the first half of the 20th century, reflecting various literary movements of this period. Works by authors such as Proust, the female novelists of the Belle Époque, Colette, Gide, Camus, Malraux, Yourcenar, Sartre, de Beauvoir, and Leduc. Prerequisite: FRE 240Y I</p>
	<p>FRE368HI Studies in the 20th Century French Novel II 26S</p> <p>An analysis of major French novels of the latter part of the 20th century, beginning with the New Novel and exploring other contemporary developments such as experimental writing, the</p>

French

women's movement, postmodernism, and the new generation of Minuit authors. (Not offered in 2006-2007; offered in alternate years).

Prerequisite: FRE 240Y1

FRE 370Y0 French Language and Culture: Grammar, Stylistics and Translation

Offered in Nantes only.

Prerequisite: Any 200-series FRE/FSL course.

FRE 371Y0 Quebec Novel

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.

FRE404HI Feminist Readings 26S

A study of the major trends and concepts in feminist theory. Selected literary texts by women writers are analyzed using different feminist perspectives as strategies of critical reading and interpretation. (Not offered in 2006-2007; offered in alternate years).

Prerequisite: FRE 240Y1

Recommended preparation: One 300+ series FRE Literature course

FRE410HI Advanced Topics in Québec Studies I 26S

An advanced seminar dedicated to specific issues of Québécois 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 2006-2007)

Prerequisite: Varies according to particular course offering;

consult the Department website (www.chass.utoronto.ca/french/under) or the Undergraduate brochure for exact prerequisites.

Prerequisite: Varies according to particular course offering;

consult the Department website (www.chass.utoronto.ca/french/under) or the Undergraduate brochure for exact prerequisites.

FRE411HI Advanced Topics in Québec Studies II 26S

An advanced seminar dedicated to specific issues of Québécois 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 2006-2007; offered in alternate years).

Prerequisite: Varies according to particular course offering;

consult the Department website (www.chass.utoronto.ca/french/under) or the Undergraduate brochure for exact prerequisites.

Prerequisite: Varies according to particular course offering;

consult the Department website (www.chass.utoronto.ca/french/under) or the Undergraduate brochure for exact prerequisites.

FRE419HI Literature of the Renaissance 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 2006-2007; offered in alternate years).

Prerequisite: FRE 240Y1

Recommended preparation: One 300+ series FRE Literature course

FRE420HI Ardour and Armour in Medieval France 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

Recommended preparation: One 300+ series FRE Literature course

Exclusion: FRE 420Y1

FRE431HI Francophone Literature II 26S

Francophone literature of the Caribbean. Different approaches - textual, ideological, historical - to the works of francophone writers living and writing outside Québec or France. (Not offered in 2006-2007)

Prerequisite: FRE 240Y1

Recommended preparation: One 300+ series FRE Literature course

FRE438HI Advanced Topics in French Studies I 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.

Prerequisite: Varies according to particular course offering;

consult the Department website (www.chass.utoronto.ca/french/under) or the Undergraduate brochure for exact prerequisites.

Prerequisite: Varies according to particular course offering;

consult the Department website (www.chass.utoronto.ca/french/under) or the Undergraduate brochure for exact prerequisites.

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 2006-2007; offered in alternate years).

Prerequisite: Varies according to particular course offering;

consult the Department website (www.chass.utoronto.ca/french/under) or the Undergraduate brochure for exact prerequisites.

Prerequisite: Varies according to particular course offering;

consult the Department website (www.chass.utoronto.ca/french/under) or the Undergraduate brochure for exact prerequisites.

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.

Prerequisite: FRE 240Y1

Recommended preparation: One 300+ series FRE Literature course.

FRE450HI The Sablé Centre Seminar in 19th Century French Studies 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.
 Prerequisite: FRE240Y1, one 300+ series FRE Literature course
 Recommended preparation: One additional 300+ series FRE Literature course

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.
 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 linguistics with special reference to French. This course is taught in English. (Not offered in 2006-2007)
 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 2006-2007; 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 26S

An advanced seminar on a specific aspect of French linguistics, reflecting the professor's current research. (Not offered in 2006-2007; offered in alternate years).
 Prerequisite: Varies according to particular course offering; consult the Department website (www.chass.utoronto.ca/french/under) or the Undergraduate brochure for exact prerequisites.

FRE489HI 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.
 Prerequisite: Varies according to particular course offering; consult the Department website (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/ 492HI Independent Study

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

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, it is often recommended that a student take 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 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 and make an appointment to take the test at the Multimedia Centre. The test must be taken prior to registration 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 FSL121YI.

Prerequisite: FSL100HI/FSL101HI or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

Exclusion: FSL 121YI 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: FSL161YI 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 121YI or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

Exclusion: FSL 161YI and higher

FSL277YI 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: FSL161YI/181YI/221YI

Exclusion: FRE277YI/Not open to fluent or native speakers of French, as determined by the results of the in-class Oral Proficiency Test.

FSL331YI Practical French I 78S (formerly FSL261YI)

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: FSL161YI/181YI/221YI or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

Exclusion: FSL 261YI/281YI/341Y and higher

FSL341YI Language Practice I: Written and Oral French 78L, 26P (formerly FSL281YI)

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: FSL161YI (77%)/181YI/221YI or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test

Exclusion: FSL 261YI/281YI/331YI and higher

FSL362YI 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. (Not offered in 2006-2007)

Prerequisite: Any 200-series FSL course or, upon first FRE/FSL enrolment, equivalent as determined by the French Placement Test.

Exclusion: FSL 461YI 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

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.

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

**Genes, Genetics and Biotechnology:
see Life Sciences: Human Biology**

Faculty

Professors Emeriti

L.S. Bourne, MA, Ph D, FRSC, DES Hons
J.N.H. Britton, MA, Ph D
I. Burton, Ph D, FRSC
L. Curry, MA, Ph D
A.J. Dakin, Ph D, ARIBA, FRTPI
W.G. Dean, MA, Ph D, LL D
N.C. Field, MA, Ph D
G.H.K. Gad, Dr Phil, Ph D (UTM)
J.H. Galloway, MA, Ph D (V)
G. Gracie, BA Sc, Ph D (UTM)
R. Jaakson, M Sc (PI), Ph D (UTM)
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P.D. Kerr, MA, Ph D
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J. Spelt, MA, Ph D
A. Waterhouse, M Sc (PI), Ph D
J.B.R. Whitney, MA, Ph D

Associate Professor and Chair of the Department

J.R. Desloges, M Sc, Ph D

Professors

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J.M. Chen, B Sc, Ph D
A.G. Daniere, MPP, Ph D
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M.S. Gertler, MCP, Ph D
B. Greenwood, B Sc, Ph D (S)
L.D.D. Harvey, M Sc, Ph D
J.R. Miron, MA, M Sc, Ph D (S; Chair Social Sci. UTSC)
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W. Gough, M Sc, Ph D (S)
D. Leslie, MA, Ph D
R.D. Lewis, MA, Ph D
V.W. Maclaren, M PI, MS, Ph D
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T. Conway, MS, Ph D (UTM)
S.A. Cowling, M Sc, Ph D
P. Desrochers, Ph D (UTM)
J. Dunn, MA, Ph D
S. Finkelstein, M PHL, Ph D
E. Gilbert, MA, Ph D
J. Hackworth, MA, MEP, Ph D
P. Hess, MEP, Ph D
M. Hunter, MA, Ph D (S)
K. MacDonald, MA, Ph D (S)
M. Mahtani, BA, Ph D (S)
D. McGregor, MES, Ph D
C. Rinner, M Sc, Ph D
M.J. Simpson, B Sc, Ph D (S)
A. Sorensen, M Sc, Ph D (S)
S. Wakefield, MA, Ph D
A. Walks, MA, Ph D (UTM)
M. Wells, B Sc, Ph D (S)
K. Wilson, MA, Ph D (UTM)

Senior Lecturer

D. Boyes, M Sc, Ph D
B. Murck, Ph D (UTM)

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. The Department offers several Specialist, Major and Minor Programs in Geography, cooperates in offering a combined program with Economics, shares with Botany and Zoology 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 A.M. Davis, Sidney Smith Hall, Room 5044 (416-978-5992)

Student Counsellor:

S. Calanza, Sidney Smith Hall, Room 5050 (416-978-6455)

General Enquiries: 416-978-3375

Geography Programs

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/GI/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)

Specialist program:

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)

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/JEG221Y1; GGR270HI, 271HI, 272HI, GGR 391HI, 393HI
2. GGR 491Y1/two of GGR 409HI, 415HI, 418HI, 435HI, 450HI, 451HI, 492HI, 498HI, 499HI
3. One additional half course from Group B
4. 4.0 courses from: GGR 220Y1, 256HI, 305HI, 307HI,, 314HI, 331HI, 332HI, 333HI, 334HI, 335HI, 338HI, 342HI, 343HI, 390HI, 409HI, 415HI, 418HI, 421HI, 435HI, 439HI, 450HI, 451HI, 456HI; INI 440Y1; 470HI, 475HI; JUG 320HI; JAG 321HI. Of the 4.0 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/JEG221Y1; GGR 270HI, 271HI
2. 4.0 courses from last option list in Specialist program above

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

Higher Years:

1. GGR 270HI, 271HI, 272HI, GGR 391HI
2. GGR 491Y1/two of GGR 409HI, 413HI, 415HI, 418HI, 431HI, 439HI, 446HI, 450HI, 451HI, 452HI, 459HI, 492HI, 498HI, 499HI
3. One additional half course from Group B
4. 5.5 GGR/JAG/JFG/JGF/GI/JUG/JEG courses with no more than one additional course from Group A.

Geography

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 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/JEG 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, 492HI, 499HI
3. One additional half course from Group B
4. 5.0 courses from: GGR 216HI, 239HI, 246HI, 249HI, 254HI, 336HI, 340HI, 342HI, 343HI, 344HI, 347HI, 348HI, 350HI, 360HI, 361HI, 362HI, 363HI, 364HI,

366HI, 368HI, 421HI, 439HI; JUG 320HI; JAG 321HI.

Of the 4.5 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, 391HI
6. GGR 491YI/two of GGR 403HI, 409HI, 413HI, 435HI, 498HI
7. One additional half-course from Group B
8. 4.0 courses from: GGR 201HI, 203HI, 205HI, 206HI, 301HI, 302HI, 303HI, 305HI, 307HI, 310HI, 314HI, 330HI, 333HI, 337HI, 403HI, 409HI, 413HI, 421HI, 435HI, 490HI 498HI. Of the 3.0 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

First Year:

1. One course from Group A (GGR 100YI strongly recommended)

2. One course from: BIO 150Y1/CHM 137Y1/(138HI, 139HI)/151Y1/MAT 135Y1/137Y1/PHY 110Y1/ 138Y1/ 140Y1

Higher Years:

1. Three of: GGR 201HI, 203HI, 205HI, 206HI
2. GGR 270HI, 390HI
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 201HI/203HI/ 205HI/206HI
3. GGR 390HI; (301HI/302HI/305HI); (272HI/307HI/ 310HI/312HI)
4. A half-course from Group C

Urban, Economic and Social 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 124Y1 recommended)

Higher Years:

1. GGR 220Y1, 270HI, 271HI, 272HI, GGR 391HI
2. GGR 491Y1/two of 431HI, 439HI, 450HI, 452HI, 455HI, 459HI, 492HI, 499HI, JFG 470HI
3. One additional half-course from Group B
4. 4.5 courses from: GGR 216HI, 233Y1/JEG221Y1; GGR 246HI, 249HI, 252HI, 254HI, 256HI, 323HI, 324HI, 326HI, 327HI, 328HI, 333HI, 334HI, 336HI, 339HI, 342HI, 343HI, 344HI, 350HI, 357HI, 361HI, 362HI, 363HI, 366HI, 368HI, 421HI, 431HI, 439HI, 450HI, 452HI, 459HI; JFG 470HI, 475HI; JGI 216HI, 346HI. Of the 4.5 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 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, 270HI, 271HI
2. 4.0 courses from last option list in Specialist program above

Group A:

GGR 100Y1, 107Y1, 124Y1

Group B:

GGR 270HI, 271HI, 272HI, 273HI, 337HI, 371HI, 373HI, 390HI, 391HI, 393HI, 462HI, 473HI, 480Y1, 490HI; JFG 470HI, 475HI

Group C:

ENV 236Y1; GGR 201HI, 203HI, 205HI, 206HI, 301HI, 302HI, 303HI, 305HI, 307HI, 310HI, 314HI, 333HI 402HI, 403HI, 404HI, 409HI, 413HI, 490H

Geography Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), GGR courses are classified in various categories; see entry at end of each course.

INX199HI/Y1 First Year Seminar 52S

SCII99HI/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 45.

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

Basic physical geography moulded around a simple systems approach. The atmospheric, biospheric and lithospheric systems and their interactions. Climate and weather. Plate tectonics and earth materials. Geomorphic processes. Soils and the biosphere. Exclusion: JGF150Y1/JGG150Y1
This is a Science course

GGR107Y1 Environment, Food and People 52L, 8T

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

Geography

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: GGR100YI

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: GGR100YI; MAT135YI/137YI; PHY110YI/138YI/140YI

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: CHM137YI/(138HI, 139HI); GGR100YI

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: GGR100YI; MAT135YI

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

JGI216HI 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.

GGR220YI 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

JGE221YI 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.

GGR233YI 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: GGR100YI/101YI/107YI

This is a Social Science course

GGR240HI Historical Geography of the Americas (formerly GGR240YI) 26L, 3T

An introduction to issues in the historical geography of the Americas emphasizing comparisons between North and South. The course begins with the pre-Columbian Americas and the impact of European imperial expansion. It explores the emergence of cultural realms and the development of regional economies and societies into the 20th century.

Exclusion: GGR240YI

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

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 45 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. In 2006-2007, the course will be subtitled "Nunavut's Lands & People". Description: This course will examine the evolution of the creation of Nunavut. Conditions and processes influencing the implementation of the Nunavut Land Claims Agreement and the establishment of the Territorial Government will be presented. Historical and contemporary issues facing the lands and people of Nunavut will also be explored.

Exclusion: Permission of the instructor must be obtained

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 and sediment transport.

River channel adjustments to environmental change and human impact and management effects on river development.

Paleohydrology and paleohydraulics. 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

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 scale 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

Geography

GGR312HI Physical Basis of Climate 30L, 4T

The large scale processes determining regional and global climate, including biogeochemical cycles, radiation, maintenance of general circulation, and sea, ice and snow processes.

Prerequisite : GGR203HI , MAT135YI/137YI

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

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: GGR124YI/220YI 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: GGR100YI 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: GGR100YI/107YI/233YI

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: GGR233YI/JEG221YI/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. (Offered in alternate years)

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: GGR100YI/107YI, GGR233YI/JEG221YI

This is a Social Science course

<p>GGR335HI Business and Environmental Change 26L</p> <p>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.</p> <p>Recommended preparation: GGR233Y1/JEG221Y1</p> <p>This is a Social Science course</p>	<p>GGR342HI The Changing Geography of Southeast Asia 26L</p> <p>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.</p> <p>Recommended preparation: Two courses in Geography</p> <p>This is a Social Science course</p>
<p>GGR336HI Urban Historical Geography of North America 26L</p> <p>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.</p> <p>Recommended preparation: GGR124Y1/SOC205Y1</p> <p>This is a Humanities course</p>	<p>GGR343HI The Changing Geography of China 26L</p> <p>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.</p> <p>Recommended preparation: Two courses in Geography</p> <p>This is a Social Science course</p>
<p>GGR337HI Environmental Remote Sensing 26L, 26P</p> <p>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.</p> <p>Prerequisite: GGR272HI</p> <p>This is a Science course</p>	<p>GGR344HI Changing Geography of Russia and Ukraine 26L</p> <p>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.</p> <p>Recommended preparation: Two courses in Geography</p> <p>This is a Social Science course</p>
<p>GGR338HI Environmental Problems in Developing Countries 26L</p> <p>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.</p> <p>Prerequisite: 200-level environmental course</p> <p>This is a Social Science course</p>	<p>JGI346HI The Urban Planning Process 26L</p> <p>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.</p> <p>Recommended Preparation: GGR124Y1</p> <p>This is a Social Science course</p>
<p>GGR339HI Urban Geography, Planning and Political Processes 26L</p> <p>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.</p> <p>Prerequisite: GGR124Y1, 246HI/254HI</p> <p>This is a Social Science course</p>	<p>GGR350HI Canada in a Global Context 26L</p> <p>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.</p> <p>Prerequisite: 1.0 GGR courses</p> <p>This is a Social Science course.</p>
<p>GGR341HI Arctic Canada 26L</p> <p>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.</p> <p>Recommended Preparation: Two courses in Geography</p> <p>This is a Social Science course</p>	<p>GGR360HI Culture, History, and Landscape 26L</p> <p>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.</p> <p>Prerequisite: 1.0 GGR courses</p> <p>This is a Social Science course.</p>

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: GGR124Y1

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: GGR124Y1

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 254, GGR 246, GGR 249 or GGR 240

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 2006.

Prerequisite: GGR100Y1

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 491Y1.

Prerequisite: Three 200/300-series GGR courses including

GGR270HI, and at least 0.5 at the 300- or 400-level

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 historical and institutional development of EIA in Canada, and EIA in the context of environmental regulation under advanced capitalism. Includes case studies of EIA statements and processes at various levels of government.

Prerequisite: GGR100Y1/107Y1/233Y1

This is a Social Science course

GGR398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 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. In 2006-2007, the course will be subtitled "Globalization and International Development". Course description: This course takes a critical look at the shifting development policies and practices in the South within the context of globalization and late capitalism. Drawing on cases from around the world, it begins with an in-depth investigation of the competing theories, dominant power relations (between donor agencies, INGOs, NGOs, state players, private agencies, and beneficiaries), and on-the-ground practices in the development planning field in the South. The course then analyzes how these conventional conceptions, power relations, and practices are being transformed by globalizing processes and assesses the potentials and limitations of these salient shifts. Particular attention is paid to the ways that spatial politics is being negotiated and employed to restructure the international development field. The course ends by exploring how a progressive sense of place and the geography of social justice could advance more effective development practices. (Recommended Preparation: GGR 107Y1, GGR 216H1) Exclusion: Permission of the instructor must be obtained

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 mission to health effects. Facility is gained with simple mathematical models. The interface between science and policy are discussed throughout.

Prerequisite: CHM137Y1/(138H1, 139H1)/151Y1/GGR205H1

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: GGR201H1/206H1/270H1

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 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, 270H1

This is a Social Science course

GGR435HI Technology, Toronto, and Global Warming 26L

Toronto as a case study of methods to reduce emissions of greenhouse gases, their costs and benefits, and of the practical problems involved. Seminar format with presentations by students in class and in high schools. (Offered in alternate years)

Prerequisite: GGR314H1

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 150YI 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 233YI

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: GGR124YI

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

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: GGR124YI, 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/ECO220YI/227YI/MAT133YI/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 26L
Systems Planning

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/ECO220YI/227YI/
MAT133YI/135YI/137YI
This is a Science course

GGR480YI Advanced Field Research-Human 26L
Geography

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- TBA
Physical Geography

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: GGR391HI, 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

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: GGR491YI
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: GGR491YI
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)
E.W. Nuffield, BA, Ph D, FRSC
J.C. Rucklidge, MA, Ph D
W.M. Schwerdtner, Dip Geol, Dr Rer Nat
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 (UTM)

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 (UTM)
K.W.F. Howard, M Sc, Ph D (UTS)
A.D. Miall, B Sc, Ph D, D Sc, FRSC
P.-Y. F. Robin, M Sc, Ph D (UTM)
S.D. Scott, Ph D, 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. Douglas, M Sc, Ph D
G.S. Henderson, M Sc, Ph D
M.P. Gorton, B Sc, Ph D
D.J. Schulze, M Sc, Ph D (UTM)
R. Pysklywec, M Sc, Ph D

Assistant Professors

G. Srinivasan, M Sc, Ph D
U. Wortmann, Dip Geol, Dr Rer Nat
J. Bollmann, Dip Geol, Ph D

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 Programs

The introductory 100-level course GLG102H1 is strongly recommended for enrolment in all programs in the Department of Geology. No minimum GPA is required.

Geology (Science program)

Consult the Undergraduate Coordinator, Department of Geology, Earth Sciences Centre

Specialist program:

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

First Year:
CHM 151Y1/(138H1, 139H1); MAT 135Y1/137Y1; PHY 138Y1/140Y1

Second Year:
GLG 206H1, 207H1, 216H1, 217H1; GLG202H1; GLG204H1; MAT 223H1

Third Year:
GLG 318HI, 340HI, 345HI, 351HI, 360HI; ENV 315HI

Fourth Year

1. GLG 445HI
2. 3.0 full 400-series GLG or JGP courses

Major program:

(8 full courses or their equivalent)

First Year:

CHM 151YI/(138HI, 139HI); MAT 135YI/137YI; PHY 138YI/140YI

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 GLG full course equivalents of which one full course or equivalent is at the 300/400-level

NOTE:

Some GLG courses have CHM/MAT/PHY prerequisites

Environmental Geosciences - See Centre for Environment

Geology and Chemistry - see Chemistry

Geology and Physics (Science program)

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

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), all GLG courses are classified as SCIENCE courses.

SC1199HI/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 45.

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.

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: JGG150YI

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: CHM151YI/(138HI, 139HI); MAT 135YI/137YI

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

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

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: GLG216HI

ENV234Y1 Environmental Biology (formerly JED234Y1)

See "Centre for Environment"

GLG299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 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 (in conjunction with GLG206HI) to view igneous and metamorphic rocks and structures. The venue for the trip alternates yearly between Bancroft and the Montreal area.

Prerequisite: GLG206HI, 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: GLG318HI, 360HI

GLG340HI Field Course I: White Fish Falls Manitoulin Island TBA

A twelve-day field course in mid-May. 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

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

GLG351HI Geochemical and Biological Regulation of Aqueous Systems 26L, 26P

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.

Exclusion: JGG350HI

Prerequisite: CHM (138HI, 139HI)/151Y1; and any 2nd year science course

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

GLG398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 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 of Environmental Change 26L, 39P

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/469YI/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

GLG442HI Mineral Deposits 26L, 39P

Geology and geochemistry of magmatically related ore deposits, principally Ni, Cu, Pt group, Cr, including porphyry Cu deposits. Use of S, O and H isotopes and fluid inclusions in mineral deposit geology. Origin and interpretation; systematic ore mineralogy, in hand specimen and reflected light microscopy.

Prerequisite: GLG 318HI

GLG443HI Ore Genesis and Exploration Geochemistry 26L, 39P

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.

This is a summer session course and students must also register with the Department during the preceding term.

Prerequisite: GLG318HI, 340HI, GLG345HI/MIN240F 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

Faculty

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

J.K. Noyes, MA, Ph D

Professor and Associate Chair for Graduate Studies

W. Goetschel, Lic Phil, Ph D

Associate Chair for Undergraduate Studies

U. Sherman, MA, Ph D

Associate Professors

M. Hager, Dr phil
J. Zilcosky, MA, Ph D

Assistant Professors

A. Fenner, Ph D
S. Soldovieri, MA, Ph D (UTM)
M. Stock, Dr phil

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 endeavour. 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 18th Century 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

Web site: www.chass.utoronto.ca/german

German Programs

German Studies (Arts program)

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.

1. GER100Y1,
2. GER200Y1, 205H1

3. GER300Y1, 305H1, 310H1
4. GER400H1
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, 205H1
3. GER300Y1, 305H1, 310H1
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 GER370H1 and GER470H1. 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 H1
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. GER360H1

3. GER361H1/362H1/363Y/364H1
4. GER462H1
5. The remaining courses should be taken from: GER490H1/490Y1, ENG256Y1, GER100Y1, HIS208Y1/433H1, SLA202H1 or other approved cognate courses.

German Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), all GER courses are classified as HUMANITIES courses.

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 45.

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 at 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

GER101H 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.

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 GER100Y1/101H1. Further expansion of basic grammar and vocabulary, practice in comprehension, translation, composition, and conversation. Exclusion: GER200H1/201H1; not open to fluent or nearly fluent speakers of German

Prerequisite: GER100Y1/101H1, 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

- 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 104P**
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 45 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/ 399Y0 Independent Experiential Study Project
 An instructor-supervised group project in an off-campus setting. See page 45 for details.

GER371HO 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 (formerly GER400YI) **39P**
 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 Intellectual History **26S**
 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 German Literature **26S**

A study of specific topics in Medieval Literature.
 Prerequisite: GER426HI or permission of the department

GER 430HI Topics in German Literature and Culture **26S**

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, 2006.

**Global Health: see Life Sciences:
 Human Biology**

Greek: see Classics

History

Faculty

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 (UTSC)
D.P. Morton, MA, Ph D (UTM)
H.I. Nelson, MA, Ph D
W.H. Nelson, MA, Ph D (U)
D.L. Raby, BA, Ph D (UTM)
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 (UTM)
K.R. Bartlett, MA, Ph D (V)
P. Blanchard, BA, Ph D
R. Bothwell, MA, Ph D, FRSC (T)
W. Dowler, MA, Ph D (UTSC)
M. Eksteins, B Phil, D Phil (UTSC)
M. Gervers, MA, Ph D (UTSC)
J.W. Goering, MA, Ph D
A. Greer, MA, Ph D
R. Halpern, MA, Ph D

R.E. Johnson, BA, Ph D (UTM)
J. Kivimäe, BA, Ph D
T. Lahusen, MA, Ph D
L.S. MacDowell, M Sc (Econ), Ph D (UTM)
M. MacMillan, B Phil, D Phil (T)
P.R. Magocsi, MA, Ph D, FRSC
M.R. Marrus, MA, Ph D, MSL, FRHS, FRSC (T)
K. Mills, MA, D Phil
A.C. Murray, MA, Ph D (UTM)
D.J. Penslar, MA, C Phil, Ph D
R.W. Pruessen, MA, Ph D
J. Retallack, BA, D Phil
I. Robertson, MA, Ph D (UTSC)
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 (UTM)
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 (UTM)
I. Cochelin, MA, Ph D
S. Hawkins, MA, Ph D
F. Iacovetta, MA, Ph D (UTSC)
J. Jenkins, MA, Ph D
E.T. Jennings, MA, Ph D
C. Keil, MA, Ph D (I)
L. Loeb, M MST, Ph D
M.G. McGowan, MA, Ph D (SM)
M.D. Meyerson, MA, Ph D
J. Mori, BA, Ph D
N. Musisi, MA, Ph D (N)
J. Noel, MA, Ph D (UTM)
I. Radforth, MA, Ph D
S. Rockel, MA, Ph D (UTSC)
G. Silano, MA, Ph D (SM)
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 (UTSC)
R. Birla, M Phil, Ph D
P. Cohen, Ph D
C. Chin, MA, Ph D
N. Everett, BA, Ph D
J. Hanssen, D Phil (UTM)
M. Kasturi, MA, M Phil, Ph D (UTM)
R. Kazal, MA, Ph D (UTSC)
T. Lam, Ph D (UTM)
M. Murphy, BA, Ph D
M.J. Newton, BA, D Phil
S. Penfold, MA, Ph D
N. Tran, BA, Ph D
D. Williams, MA, Ph D (UTM)
R. Wittmann, MA, Ph D (UTM)

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 in the Undergraduate Handbook available each year in the spring or year round at our website: 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 with a mark of at least 70% in each.

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 two 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; no minimum GPA required. Completion of a 100-series HIS course is recommended before enrolment.

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 one-half 400-series HIS course
2. At least two 300/400-series courses (in addition to item 1 above)
3. At least one course from each of the following divisions*:
 - I. Asia/Africa/Middle East
 - II. Canada/United States/Latin America/Caribbean
 - III. Europe
4. One pre-modern course*

*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 fulfill items 1 through 4 of the major program.

History

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

Note:

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)

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 with a mark of at least 70% in each; 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:

1. 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

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), all HIS courses are classified as HUMANITIES courses (except HIS 103Y1, which has NO distribution requirement status).

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 45.

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

HIS107YI Approaches to East Asian History 52L, 26T

This course examines how various histories of East Asia can be written. Topics as varied as Chinese uses of New World silver in the 17th century, the shifting fortunes of Korean shamanism, and the Tokyo War Crime Trials are used to ask questions about Eurocentrism.

Exclusion: EAS204YI, HIS103YI, 104YI, 106YI, 109YI

HIS109YI 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: HIS103YI, 104YI, 106YI, 107YI

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.

HIS208YI 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: HIS103YI/108YI/109YI

Exclusion: one full HIS course or equivalent

HIS220YI 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.

HIS232YI 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: HIS103YI/109YI

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.

HIS245YI 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.

HIS250YI 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.

HIS251YI 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.

HIS263YI 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: HIS262YI

HIS271YI 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.

HIS280YI 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.

HIS281YI 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/223YI/HIS281HI

HIS282YI 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.

History

HIS283YI Southeast Asian Crossroads 52L, 20T

This course surveys the historical experiences of the states that constitute present-day Southeast Asia and examines how long 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.

HIS291YI Latin America: The Colonial Period 52L, 20T

The evolution of Spanish and Portuguese America from pre-Columbian civilizations to the wars of independence.

HIS292YI Latin America: The National Period 52L, 20T

A survey of Latin American history from the wars of independence to the present day.

HIS294YI 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.

HIS295YI Introduction to African History (formerly HIS295HI) 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.

HIS296YI 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: NEW296YI

HIS299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

300-Series Courses

Note:

First-year students are not permitted to enrol in 300-series HIS courses.

HIS301YI 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: HIS243HI

HIS302HI Material Culture in Victorian Britain (formerly HIS302YI) 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: HIS302HI
Recommended preparation: HIS239HI/339YI

HIS303YI 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

JHP304YI Ukraine: Politics, Economy and Society (formerly JHP204YI) 52L, 20T

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. (Given by the Departments of History and Political Science)
Exclusion: JHP204YI

HIS305HI 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: HIS294YI

HIS306HI Culture, Society and Gender in England, 1560-1730 (formerly HIS306YI) 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: HIS306YI
Recommended preparation: HIS238HI

HIS309HI 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

HIS311YI 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: HIS262YI/263YI

<p>HIS313HI Canadian Labour and the Left (formerly HIS313Y1) 26L</p> <p>Canadian labour history from political action to collective bargaining in the period from Confederation to the present. Prerequisite: ECO244Y1/HIS262Y1/263Y1/WDW244H1/Y1 Exclusion: HIS 313Y1</p> <p>HIS314YI Quebec and French Canada 52L, 13T</p> <p>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.</p> <p>HIS315HI Narratives of “Viet Nam” 26L</p> <p>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.</p> <p>HIS316HI History of Advertising 39L</p> <p>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</p> <p>HIS317HI Modern Germany 1914 to the Present (formerly HIS317Y1) 26L</p> <p>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: HIS241H1, 242H1 Exclusion: HIS317Y1</p> <p>HIS318YI Canadian Environmental History 52L</p> <p>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</p> <p>HIS319HI Renaissance France and the Wars of Religion, 1483-1610 26L</p> <p>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: HIS243H1/309H1/388H1/443H1 or permission of instructor</p> <p>HIS320YI Early Medieval Europe, c. 300-1100 52L</p> <p>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</p>	<p>HIS321HI Rise of Industrial America, 1877-1907 26L</p> <p>An examination of the emergence of a mature industrial society in the United States from the end of reconstruction to the 1907 financial panic, focusing on the impact of the newly emergent industrial organization on labour, farmers, and consumers and the new political system. Prerequisite: HIS271Y1</p> <p>HIS322YI The High Middle Ages 52L</p> <p>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</p> <p>HIS323HI Rites of Passage and Daily Life in the Middle Ages (formerly HIS323Y1) 26L</p> <p>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</p> <p>HIS324YI Science, Technology, and the Development of Modern Culture 52L</p> <p>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</p> <p>HIS325HI Imperial Russia (formerly HIS325Y1) 26L</p> <p>The history of Imperial Russia from Peter I to 1917. The development of its political institutions, social and economic structures, cultural and intellectual values. Emphasis on the relations of society and the state and among the various social groups of the Empire. Exclusion: HIS325Y1 Prerequisite: HIS250Y1/permission of instructor</p> <p>HIS327HI America and the World to 1900 26L</p> <p>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</p> <p>HIS328YI Modern China since 1800 52L</p> <p>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</p>
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History

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 26L to the First World War (formerly HIS317Y1)

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/HIS241HI

Exclusion: HIS317Y1

HIS331HI Modern Baltic History 26L (formerly HIS331Y1)

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, 26L 1500-1800 (formerly HIS332Y1)

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: HIS238HI

HIS333YI Revolution in 20th Century 52L Latin America

An examination of the impact of 20th-century Latin American revolutions on the lives of their participants.

Exclusion: HIS333HI

Prerequisite: GGR249HI/HIS292Y1/IAS200Y1/POL201Y1/305Y1

HIS334YI 19th and 20th Century Central 52L Europe and the Great Powers

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 52L in 18th Century Britain (formerly HIS337Y1)

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, HIS238HI, 239HI

HIS338YI The Holocaust : Nazi 52L, 12T Germany, Occupied Europe and the Destruction of European Jewry (formerly HIS398Y1)

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

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/HIS238HI, 239HI

HIS340HI A Survey of Australian 26L History

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: HIS109Y1/220Y1/238HI/243Y1/244Y1/245Y1/EUR200Y1

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

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

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

HIS357YI A Social History of Renaissance Europe (formerly HIS357HI) 52L

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

HIS359HI Regional Politics and Radical Movements in the 20th Century Caribbean 26L

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

History

HIS360YI African Canadian History, 52L
1606 - Present

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

HIS362HI The Hansa: The World of Merchants 26L

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

HIS363HI Dynamics of Gender in 26L
Canadian History

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

HIS364HI Studies in the History of 26L
Modern India

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

HIS366YI Black Canadian Women's History 52L

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

HIS367HI History of Images 26L, 13P

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

HIS368HI British Government and 26L
Society, 1500-1800
(formerly HIS238HI)

An introduction to the history of early modern England with reference to politics, religion and social structure.

Exclusion: HIS238HI

HIS369YI Aboriginal Peoples of the 52L
Great Lakes from 1500
(formerly HIS369HI)

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

HIS370HI The Black Experience in the 26L
United States Since the Civil War

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

HIS374HI American Consumerism - The 26L
Beginnings

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 attitudes of 18th-century Americans towards consumer goods, fashion and style that led to the mass consumption of the 19th century.

Prerequisite: HIS271YI

Recommended preparation: At least 6 courses completed

HIS375HI History of 20th Century American 39L
Popular Culture
(formerly HIS375YI)

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: HIS271YI

Exclusion: HIS375YI

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 271YI

HIS377YI 20th-Century American 52L
Foreign Relations

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: HIS271YI/372YI/POL208YI

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: HIS271YI

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/271YI

HIS380YI Late Imperial China 52L, 13T

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/HIS280YI/JMC201YI

**HIS381HI Classical Indian History from 26L
Indus Valley to Gupta**

Covers the genesis and growth of Indian classical civilization, Indus Valley, Vedic age, Buddhist age, Mauryas, and Gupta empire. The focus is on ancient Indian political, social, and economic ideas and institutions.
Recommended preparation: HIS282YI

**HIS383HI African Women from Colonial 26L
Conquest to the Era of Structural
Adjustment
(formerly HIS383YI)**

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: HIS383YI
Prerequisite: HIS295YI

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: HIS362YI
Prerequisite: HIS106YI/262YI/263YI or permission of the instructor

**HIS385YI The History of Hong Kong 52L
(formerly HIS385HI)**

A study of political, economic, and social change in the British colony of Hong Kong from 1842 until the present day.
Exclusion: HIS385HI
Recommended preparation: HIS280YI/232YI/JMC201YI

**HIS386HI Muslims in India and Pakistan 26L
(formerly HIS386YI)**

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: HIS101YI/282YI
Exclusion: HIS386YI

**HIS388HI France Since 1870 26L
(formerly HIS388YI)**

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: HIS388YI

Prerequisite: EUR200YI/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 52L
of Revolution**

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 291YI/294YI/IAS 200YI/GGR 240YI

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: HIS271YI

**HIS394HI South Asian Migration 26L
and Settlement**

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 26L
Africa From Abolition of the
Trans-Atlantic Slave Trade to
the Era of Imperialism
(formerly HIS396YI)**

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: NEW150YI/HIS295HI

Exclusion: HIS396YI

HIS398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

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: HIS311YI/344YI/377YI

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 106YI/291YI/294YI

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: HIS206YI/220YI/243HI/322YI/357YI

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: HIS318YI
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: HIS311YI/POL312YI

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: HIS407YI
Prerequisite: HIS317YI 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: HIS271YI

HIS410HI Spectacle, Crowds, and Parades in Canada 26S
Social and cultural approaches to understanding spectacles, crowd behaviour, and parades in the Canadian past, 1660s - 1980s.
Prerequisite: HIS262YI/263YI/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 War, State and Society in the Early Modern Baltic (formerly HIS412HI) 52S
Reading of Balthasar Russow's Chronicle of the Province of Livonia (1584) and discussion of Danish, Swedish, German, Polish and Russian aspirations for hegemony in the Baltic Sea region. Political and social history of the Livonian Wars (1558-1583); everyday life history of the Baltic people in Early Modern Eastern and Northern European context. (Joint undergraduate-graduate)
Exclusion: HIS412HI
Recommended preparation: HIS250YI/353YI/permission of instructor

HIS414HI The Third Reich (formerly HIS414YI) 26S
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: HIS317YI/338YI or permission of instructor

HIS415HI Nationalism & Memory in Modern Europe 26S
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 Nineteenth-Century Germany 26S
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, and Technology 26S

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 Russian History (formerly HIS418YI) 26S

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

Exclusion: HIS 418Y1

HIS419HI Canadian Popular Culture, 1880 to the Present (formerly HIS419YI) 26S

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 HIS262Y1/263Y1

Exclusion: HIS419Y1

HIS420HI Democracy, Industry, & Public Culture in Twentieth-Century Germany 26S

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/317Y1/242HI

HIS421YI Soviet History Seminar (formerly HIS421HI) 52S

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: HIS351Y1 (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

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: HIS423Y1

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: HIS220Y1/304Y1/320Y1/322Y1

Exclusion: HIS424Y1

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: HIS220Y1

HIS428HI Medieval Monasticism 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 HIS220Y1

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

HIS431HI Comparative First-Wave Feminism, 1850-1940 26S

The course looks at the issues of "first-wave" feminism by comparing experiences of women in Canada, the United States and Britain. (Joint undergraduate-graduate)

History

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 HIS220Y1

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: HIS208Y1/251Y1/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: HIS220Y1/250Y1/320Y1/322Y1/JHP204Y1

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 103Y1/312Y1/a course in European history

HIS436HI Culture and the Cold War 26S (formerly HIS436Y1)

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: HIS436Y1

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

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. Primary sources translated into English will inform discussions and secondary readings whenever possible, and visual images will also be considered.

Recommended Preparation: HIS 106Y or 291Y 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 HIS443Y1) 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: HIS208Y1/241H1/242H1/244H1/250Y1/251Y1/317Y1/338Y1/341H1/353Y1/356H1/388H1 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

HIS447YI Advanced Readings in American Popular Culture 52S

This course focuses on selected issues and topics in American social and cultural history during the past 100 years. (Joint undergraduate-graduate)
Prerequisite: HIS271Y1, 375Y1

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: HIS 283Y1
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 241H1/251Y1/445HI

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

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: HIS251Y1/334Y1 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 JHP204Y1/HIS250Y1/351Y1/353Y1

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 250Y1

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: HIS351Y1 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: HIS291Y1/292Y1/294Y1/295Y1/394Y1/408Y1/IAS200Y1/320H1

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: HIS250Y1/334Y1/344Y1

History

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: INII 15YI/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: INII 15YI/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 26S
(formerly HIS466YI)**

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: 26S
History, Cultures, Texts, Film
(formerly HIS467YI)**

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: HIS262YI/263YI

**HIS469HI Religion, Culture and 26S
Society in Canada**

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 26S
in South Asia**

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 282YI 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: HIS271YI/377YI

Recommended preparation: HIS377YI

**HIS472HI Topics in Canadian Aboriginal/ 26S
Non-Aboriginal Relations
(formerly HIS472YI)**

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: HIS472YI

Prerequisite: HIS262YI/263YI

**HIS473YI The United States and Asia 52S
in the Cold War Era
(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/372YI/377YI

Exclusion: HIS 473HI

**HIS474HI The American Urban 26S
Black Experience
(formerly HIS474YI)**

Concentration on the experience of African-Americans in the city from the late 19th century to the present. Topics include the great migration north, creation of black urban communities, role of institutions such as family, church, black businesses; analysis of the problems of white racism, discrimination, poverty, crime, violence, health, housing.

Exclusion: HIS474YI

Prerequisite: HIS271YI

Recommended preparation: HIS370HI

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: HIS271YI/295YI

HIS476HI Voices from Black America (formerly HIS476YI) 26S

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: HIS271YI
Exclusion: HIS476YI

HIS477HI Topics in the Social and Cultural History of Victorian Britain (formerly HIS477YI) 26S

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: HIS477YI

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 271YI/USA 300HI

HIS479HI American Foreign Policy Since World War II (formerly HIS479YI) 26S

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: HIS271YI/377YI
Exclusion: HIS479YI

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 282YI, 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/296YI/383HI/396HI or permission of instructor

HIS482HI History and the Media in the United States 26S

This seminar examines how recent electronic media has interpreted the American past. We will view television and film documentaries, listen to radio documentaries, and examine websites. We will consider how producers working in these media have used different types of historical evidence - visual, aural, textual.
Recommended preparation: HIS 271Y

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: HIS245YI/306YI/354HI
Exclusion: HIS483YI

HIS484HI The Car in History: Business, Space, and Culture in North America (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: HIS 263YI/271YI
Exclusion: HIS484HI

HIS485YI Topics in Late Imperial and Modern Chinese History (formerly HIS485HI) 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: HIS485HI
Prerequisite: EAS102YI/HIS280YI, HIS380YI/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

History

HIS488HI The Secret War, 1939-1945 26S
(formerly HIS488YI)

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: EUR200YI/HIS103YI/
241HI, 242HI/343YI/344YI

Exclusion: HIS488YI

HIS489HI The History of Psychiatry and 26S
Psychiatric Illness

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

HIS491YI Nationalism in India Before 52S
and After Independence
(formerly HIS491HI)

The history of nationalism in India as it has developed out of the competing images and realities of national identity in the nineteenth and twentieth centuries. (Joint undergraduate-graduate)

Exclusion: HIS491HI

Prerequisite: HIS282YI or permission of instructor

HIS492YI Britain and the French Revolution, 52S
1785-1801
(formerly HIS492HI)

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 26S
Early Canada

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 52S
in West Africa c. 1500 to the present

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: HIS295YI/395YI

HIS495YI Topics in History 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.

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/ Independent Studies TBA
499YI

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.

History and Philosophy of Science and Technology

Sponsored by the Institute for the History and Philosophy of Science and Technology

Faculty

Professors Emeriti

P.M.H. Mazumdar, MB, M Tech, Ph D (V)

M.P. Winsor, M Phil, Ph D (V)

Director of the Institute

P. Thompson, BA, 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)

T.H. Levere, MA, D Phil, D Litt, FRSC (V)

Associate Professors

B. Baigrie, MA, Ph D (V)

N. Kremontsov, Diploma Candidate of Sciences/History and Philosophy of Science and Technology (V)

Assistant Professor

A. Chakravarty, BSc, MA, M Phil, Ph 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 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 J. Langins, Victoria College, Room 310 (416-978-4950)

Email: j.langins@utoronto.ca

Enquiries:

Victoria College, Room 316 (416-978-5397)

Email: ihpst.info@utoronto.ca; website: www.chass.utoronto.ca/ihpst/

History and Philosophy of Science and Technology Programs

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)

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. Two 200+H science half courses; 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

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.

History and Philosophy of Science (Arts program)

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 PHL/PHI half-courses in epistemology, logic and formal semantics, philosophy of science
5. One additional 400 series HPS/PHL course. Of the other HPS/PHL courses, three must be 300+ series

History and Philosophy of Science and Technology

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)

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

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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 critically examines several influential models of science and ideas of objectivity, rationality, theory change, revolution in science and the growth of scientific knowledge. (Prerequisite for HPS350H and a suitable pre-cursor to PHL355HI)

This is a Humanities course

HPS275HI Science and Technology in The Realms of Islam, 600-1600, Part I: The Mathematical Sciences and their Practical Applications 26L, 13S

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.

Exclusion: NMC379HI

This counts as a Humanities or Science course

HPS276HI Science and Technology in the Realms of Islam, 600-1600, Part II: The Life Sciences 26L, 13S

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.

Exclusion: NMC379HI

This counts as a Humanities or Science course

History and Philosophy of Science and Technology

- HPS299YI Research Opportunity Program**
Credit course for supervised participation in faculty research project. See page 40 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, 13**
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.
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 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**
This course surveys recent developments in the sciences of complex adaptive systems and their implications for evolutionary biology and cognitive science. Topics covered

may include: complex systems dynamics, artificial life, order and adaptiveness, self-organisation in biology and cognitive development, gene regulation and organismal development, genetic algorithms and the evolution of language.
This is a Humanities course.

- HPS323HI Darwinism 26L, 13T**
A close examination of the theory advanced in Darwin's Origin of Species, including historical investigation of its development in European thought in general and in Darwin's mind in particular, and the logic and strategy of Darwin's argument. Consideration of the effect of evolutionary ideas on science, religion and social thought in the 19th and 20th centuries, including eugenics, the Scopes trial and sociobiology.
Exclusion: ZOO354YI
This counts as a Humanities or Science 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

- HPS328HI Environment, Science and Crisis 13S**
The environmental movement has been driven by a sense of impending disaster. This course asks how such appeals function on a socio-political level, while also investigating the complex relationship between environmental science and environmental movements. Using methods from science studies, we ask what tools are required for ecologically responsible action.
Recommended preparation: Background in HPS or Environmental Studies
This is a Humanities course

- HPS333HI Topics in History of Biology 26L, 13T**
Classic episodes from the history of physiology, cell theory, embryology, genetics, and molecular biology, including the work of Aristotle, Galen, Harvey, Descartes, Roux, Mendel, Morgan, Watson and Crick.
Exclusion: ZOO354YI
Prerequisite: HPS323HI
This counts as a Humanities or Science 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

History and Philosophy of Science and Technology

software and services industries, networking, university computer science. Emphasis on international developments. This counts as a Humanities or Science Course

HPS350HI Revolution in Science 13S

A philosophical examination of a cluster of issues concerning the phenomenon of revolution in the natural sciences. Discussion will focus on the suggestion that revolutionary ferment is seeded by novelty (a new theory, set of theorems, device, experimental practice, etc.), which will be assessed against the background of a few canonical historical episodes. Prerequisite: HPS250HI or permission of the instructor This is a Humanities 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 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

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: 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

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 Chemistry 26S

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

Human Biology: see Life Sciences: Human Biology

Human Resources (Employment Relations): see Woodsworth College

Hungarian: see Finno-Ugric Studies

Ibero-American Studies: see Latin American Studies

Faculty**Associate Professors**

E.K. Armatage, Ph D
R. DiFrancesco, Ph D
C. Keil, Ph D

Assistant Professors

C. Columpar, Ph D
A. Fenner, Ph D
N. Sammond, Ph D

Senior Lecturers

R. Greenwald, Ph D
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].

Enquiries: Deborah Ohab, Program Assistant, (416-978-5809), d.ohab@utoronto.ca

Environmental Studies – See Environment (Centre for)

The Environmental Studies Program, formerly based at Innis College, has been amalgamated into the new Centre for Environment as of July 1st, 2005.

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), urban.studies@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:

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, signify 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

Innis College Programs**Cinema Studies (Arts program)**

Consult the Program Assistant, Deborah Ohab, (416-978-5809 or d.ohab@utoronto.ca) or the Cinema Studies Website:

www.utoronto.ca/cinema

Enrolment in the Cinema Studies programs requires completion of four full-course equivalents, with a minimum grade of 70% in IN1115Y1.

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

Group A: Core Courses

INI115Y1, 212Y1, 214Y1

Group B: Theory and Genre:

INI 224Y1, 322Y1, 323Y1, 325Y1, 327Y1, 329Y1, 330Y1, 374HI, 375HI, 383H, 384HI, 396Y1, 397HI, 398HI

Group C: National Cinemas:

EAS237Y1, 351HI; ENG238HI; 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; SMC354Y1; UNI 335HI

Group D: Interdisciplinary:

CLA388HI; ENG257Y1; FCS 331HI; HIS 345HI, 367HI, 375Y1, 447Y1; NEW308HI; SLA424HI; UNI221HI; VIC 311Y1, 411HI; VIS 202HI, 302HI

Group E: Senior Seminars:

EAS431HI; INI 423HI, 426HI, 428HI, 460HI, 461HI, 462HI, 463HI, 464HI, 465HI, 476Y1, 477HI, 478HI, 482Y1, 483HI, 484HI; ITA441HI

Urban Studies (Arts program)

For Program requirements and information, consult the College Secretary at 416-978-7023 or collegesecretary.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

Group A: Architecture

FAH 261HI, 274HI, 279HI, 281HI, 282HI, 316HI, 324HI, 325Y1, 339HI, 375HI, 376HI, 377HI, 380HI, 382HI, 405HI, 410HI, 413HI, 442HI

Group B: Economics

ECO 303Y1, 236HI, 333Y1, 334Y1; GGR 220Y1, 326HI

Group C: Geography

GGR 252HI, 254HI, 323HI, 324HI, 339HI, 357HI, 362HI, 364HI, 455HI, 459HI; JGI346HI, 454HI; JIG216HI

Group D: History

GGR 336HI, 366HI; HIS 312HI, 313YI, 322YI, 332HI, 339YI, 355HI, 360YI, 362HI, 370HI, 373YI, 385YI, 395YI, 474YI, 478YI; INI428HI; VIC440YI

Group E: Politics

JPF455YI; POL 209YI, 221HI, 317YI, 321YI, 333YI, 336HI, 349HI, 418YI, 436YI, 472HI, 473HI, 474HI, 475HI; INI308HI

Group F: Sociology

SOC 205YI, 210YI, 220YI, 260YI, 330YI, 369YI, 385YI, 386YI

Group G: Environment:

GGR 314HI, 323HI, 435HI; INI307YI, INI309HI

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 INI311YI) 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 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, 367YI; 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 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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: INI115YI

INI224YI 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)

INI225YI 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: INI326YI

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: INII 15Y1

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: INII 15Y1/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: INII 15Y1

INI325Y1 Documentary Film 52L, 52P

A critical survey of documentary practice including newsreels, direct cinema, cinema verité, 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: INII 15Y1

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: INII 15Y1

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: INII 15Y1

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

INI374H1/375H1 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: INII 15Y1

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: INII 15Y1

INI381H1 Aspects of a National Cinema 52S

In-depth treatment of a national cinema in a seminar format. (Offered in alternate years)
Prerequisite: INII 15Y1

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: INI382Y

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 milieu from which animation derived. (Offered in alternate years)
Prerequisite: INII 15Y, INI212Y.

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 (INII 15Y; 212Y; 214Y) and 2 additional Cinema Studies full course equivalents. (Offered in Alternate Years)

INI385Y1 Cinema in Canada 26L, 52P, 26T

Critical study of Canadian cinema from its inception to the present. (Offered in alternate years)
Exclusion: INI385H1; NEW 311H1
Prerequisite: INII 15Y1

INI386H1 Quebec Cinema (formerly INI486H1) 13L, 26P, 13T

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: INI486H1/NEW312H1
Prerequisite: INII 15Y1

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: INI15Y1

Recommended preparation: INI 212Y1, 214Y1

**INI396Y1/ Special Topics in Cinema Studies TBA
397H1/
398H1**

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.

INI423H1 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.

INI426H1 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.

INI428H1 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: INI321H1

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

INI460H1 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.

INI461H1 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.

INI462H1 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.

INI463H1 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.

**INI465H1 Cinema and Technology 26S, 26P
(formerly INI483H1)**

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: INI483H1

Prerequisite: At least ten full-course equivalents, including INI 115Y1, 212Y1, 214Y1 or permission of instructor.

**INI476Y1/ Independent Studies in Cinema TBA
477H1/
478H1**

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/ Advanced Studies in Cinema TBA
483H1/
484H1**

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 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), all INI Urban Studies courses are classified as SOCIAL SCIENCE courses.

**INI235Y1 A Multidisciplinary Introduction to 52L
Urban Studies**

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, GGRI24Y1, a 100-level POL course or POL214Y1, SOC101Y1 or permission of the instructor

**INI306Y1 Urban Experiential Learning 78S
in Toronto & the GTA**

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

INI307Y1 Urban Sustainability 52L, 26P

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: INI220Y1 or JIE222Y1 and enrolment in an Innis Environmental Studies program/ INI235Y1/ permission of the instructor (particularly for students who have completed ENV221Y1, GGR233Y1, POL209Y1, SOC 205Y1 or 260Y1)

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/ Special Topics in Urban Studies TBA
432H1/
433H1**

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.

**INI434Y1/ Independent Research in TBA
435H1/ Urban Studies 436H1**

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: INI235Y1, INI306Y1

JGI216H1 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: GGR124Y1

JGI346H1 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)

Prerequisite: GGR124Y1

Co-requisite: GGR 336H1/339H1/357H1/Major or Specialist in Urban Studies with at least 10 credits

**JGI454H1 The Role of the Planner: Making 26L
a Difference**

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 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), Writing and Rhetoric courses are classified as HUMANITIES courses, except for INI 300Y1, 301H1, 304H, 405Y1/406H1/407H1, and 408Y1/409H1/410H1 which are classified as both HUMANITIES and SOCIAL SCIENCE courses.

INI203Y1 Foundations of Written Discourse 78S

Designed to teach students to write persuasively and to recognize persuasive strategies at work in writing they analyze. Assignments will range over a variety of modes, including professional and academic writing. 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.

INI204Y1 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.

INI300Y1 Strategic Writing: 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 the environment, the depiction of Aboriginal peoples and international crises are examined.

Prerequisite: Completion of 4.0 full-course equivalents and CGPA of 2.3 or higher.

INI304HI The Illusion and the Reality of Evidence 26L

This seminar in critical reading, thinking, and analysis 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 Modern Ekphrasis: Word and Image in the Twentieth Century 39S

Ekphrasis is the description and evocation of images in words. Modern Ekphrasis examines the concept and the practice in 20th-century writing. 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 or Literary Translation 78S

A workshop course that requires directed reading and assigned work in addition to creative projects, and that gives student writers and literary translators an opportunity to learn from one another's concerns and methods

Prerequisite: Ten full-course equivalents, fluency in English, submission of a manuscript, permission of instructor

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, Rhetoric, and Critical Analysis. 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: INI203Y1 or 204Y1

Other Innis College Courses

INI299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

International Relations: see Trinity College

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)

Professor and Associate Chair

F. Guardiani, Dott in Lett, MA, Ph D (SM)

Professors

R. Capozzi, MA, Ph D
G.P. Clivio, MA, Ph D
K. Eisenbichler, MA, Ph D (V)
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:

Dr. R. Longo Lavorato, 100 St. Joseph St. Room 211 (416-926-2338)

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 Culture and Communication Studies (Arts program)

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)

Major program:

(7 full courses or their equivalent)

1. ITA 100Y1/101Y1/110Y1/(133HI, 134HI) (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 360HI, 361HI, 363HI, 430HI
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**

Italian Studies Courses

For Distribution Requirement purposes (see page 25), all ITA 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 breadth requirement course; see page 45.

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-course 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/(133HI, 134HI)/142Y1/152Y1 (Not open to students with a knowledge, however passive, of an Italian dialect)

ITA101Y1 Elementary Italian Language 78S, (formerly ITA110Y1)

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/(133HI, 134HI)/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/(133HI, 134HI)/142Y1/152Y1

ITA135Y0 Conversation and Culture: 78S An Introduction to Italian

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/(133HI, 134HI)/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/(133HI, 134HI)/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. (Given in English)

ITA220HI Introduction to Italian 26L Literature: Prose

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.

Prerequisite: ITA100Y1/101Y1/152Y1

ITA221HI Introduction to Italian 26L Literature: Poetry

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.

Prerequisite: Ita100Y1/101Y1/152Y1

Italian Studies

JFI225YI 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.

Prerequisite: FSL161Y1(73%)/181Y1/ITA100Y1/101Y1/102Y1/110Y1/(133H1, 134H1) (all with a minimum of 73%)/152Y1

ITA233YI 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. (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/(133H1, 134H1)/135Y1/142/152 or permission of Department.

ITA240YI 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.

The course is given in English and all films shown have English subtitles.

ITA245YI 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. (Given in English)

Exclusion: ITA246H1/247H1/248Y1/(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. (Given in English)

ITA250YI 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/(133H1, 134H1)

ITA251YI 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/(133H1, 134H1) or familiarity with an Italian dialect.

ITA252YI 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

ITA253YI 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

ITA271YI 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

ITA299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 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.

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.

Exclusion: ITA300Y1

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

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.

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

ITA311HI Mediaeval Italian Literature in Translation: Dante 26L

A study of the Vita Nuova and of the Divine Comedy within the literary and cultural context of the Middle Ages.

Exclusion: ITA320Y1/321Y1 /320H1/321H1

ITA312HI Mediaeval Italian Literature in Translation: Petrarch and Boccaccio 26L

A study of the Petrarch's Canzoniere and of Boccaccio's Decameron considered in relation to the later Middle Ages.

Exclusion: ITA325H1/427H1

ITA320HI Dante: Vita Nuova and Divina Commedia (Inferno) 26L

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.

Exclusion: ITA311H/320Y

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

ITA321HI Dante: Divina Commedia (Purgatorio and Paradiso) 26L

A continuation of ITA320HI, this course examines the Purgatorio and the Paradiso in the context of Dante's vision of contemporary society.

Exclusion: ITA311H/320Y

Prerequisite: ITA320HI

ITA325HI Themes and Forms of the Lyric Tradition from Petrarch to Tasso. 26L

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.

Exclusion: ITA325Y1/ITA312HI

Prerequisite: ITA250Y1/251Y1/252Y1/253Y1

ITA326HI Themes and Forms of the Lyric Tradition from Late Renaissance to 20th Century 26L

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.

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.

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. (Given in English)

Exclusion: ITA345HI

ITA334HI Italian Canadian Literature I: Life in a New World 13L, 13T

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. (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. (Given in English)

Exclusion: ITA340Y

Recommended preparation: ITA240Y1

ITA341HI 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. (Given in English)

Exclusion: ITA340Y

Prerequisite: ITA340HI or permission of Department.

VIC341HI The Self and Society in the Renaissance

See Victoria College Courses

VIC343YI 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.

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.

Exclusion: ITA252Y1/350Y1/351Y1/352Y1/353Y1/(354H, 355HI)/

(364HI, 365HI)

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.

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. Knowledge of Italian not required.

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.

Exclusion: ITA252Y1/(343HI, 344HI)350Y1/351Y1/352Y1/353Y1/

(364H, 365H)

Prerequisite: ITA251Y1/253Y1

Italian Studies

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.
Exclusion: ITA252YI/(343HI,344HI)/350YI/351Y/352YI/353YI/ (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. (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: ITA245YI/246HI/248YI

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. (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: ITA245YI/247HI/248YI

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.

Prerequisite: ITA250YI/251YI/252YI/253YI

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.

Prerequisite: ITA250YI/251YI/252YI/253YI 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.

Prerequisite: ITA250YI/251YI/252YI/253YI

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 placed on individual stylistic problems.

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.

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*.

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.

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.

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.

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. (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. (Given in English)

ITA398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 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.

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.

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.

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.

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. (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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Prerequisite: ITA250YI/251YI/252YI/253YI

Italian Studies

ITA471HI Translating IV 26S
Written translation of literary, administrative, business, and semi-technical texts from English into Italian and Italian into English.
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.
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.
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.
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

ITA490YI 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

ITA491HI 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.
Prerequisite: ITA250YI/251YI/252YI/253YI

ITA492HI 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.
Prerequisite: ITA250YI/251YI/252YI/253YI

ITA493HI 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. (Texts are available in Italian and English)
Recommended preparation: One of ITA233YI/334HI

ITA494HI The Artist as Writer 26S
Writings by Italian artists through the ages, including Michelangelo in the Renaissance.
Exclusion: ITA494YI

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
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)
Chancellor Rose and Ray Wolfe Professor of Holocaust Studies
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 (W,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, MAR, 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)

2006 Shoshana Shier Distinguished Visiting Professor

Professor James Kugel, Harry Starr Professor of Hebrew Literature, Harvard University and Directly, Institute of the Jewish Bible, Bar Ilan University

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
HIS304YI Medieval Spain: 711-1610
HIS307HI Middle East International Relations

Jewish Studies

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 31 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 25), 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

JBS229HI **Statistics for Biologists**

See Biology or Statistics
JBS229HI does not count as a distribution requirement course.

JDC400HI **Dramatic Text and Theatrical Communication**

See Drama

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

JIE307YI **Urban Sustainability (formerly INI307YI)**

See Geography 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

JMB170YI **Biology, Models, and Mathematics**

See 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

Joint Courses

JNV 300HI Gender, History and Literature

See New College or Victoria College
This is a Humanities 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

JPE400YI Political Economy of International Development

See Economics or Political Science
This is a Social Science course

JPF455YI Cities

See Philosophy or Political Science or Urban Studies or Faculty of Social Work or Faculty of Architecture, Landscape and Design
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

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

JUP460YI Contemporary Issues in Peace and Conflict

See Political Science or University College
This is a Social Science course

JZP326HI I Biological Rhythms

See Zoology or Psychology
This is a Science course

JZP428HI Advanced Topics in Biological Rhythms

See Zoology or Psychology
This is a Science course

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
Administrator
Latin American Studies at the University of Toronto
Munk Centre for International Studies, 327N
1 Devonshire Place
camille.harrison@utoronto.ca, 416 946-8972

Kenneth Mills
Professor of History & Director
Latin American Studies at the University of Toronto
ken.mills@utoronto.ca

LAS@UofT website: 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
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Geography

GGR240Y1	Historical Geography of the Americas
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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

Latin American Studies

- HIS441H1 Conversion & Christianities in the Early Modern Spanish World
 HIS456Y1 Black Slavery in Latin America

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 Eça de Queiroz
 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 20th 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

2. 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 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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 (Latina/o Identity in Canada) 26S

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 Topics in the Humanities (Postcolonial Imaginary in Latin America) 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.

LAS400HI 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: IAS200YI/LAS200YI 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

The following Life Science departments and programs are included in this section:

Biochemistry
Biology
Botany
Cell & Systems Biology
Ecology & Evolutionary Biology
Human Biology
Immunology
Laboratory Medicine & Pathobiology
Molecular Genetics & Microbiology
Neuroscience
Nutritional Sciences
Pharmacology & Toxicology
Pharmaceutical Chemistry
Physiology
Psychology
Zoology

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 in life sciences (as well as graduate education and research) is carried out in departments within the Faculty of Arts and Science and the Faculty of Medicine. Programs offered are:

Minor Programs

Biology, Botany, Physiology, Psychology, Zoology

Major Programs

Biochemistry, Biology, Botany, Life Science (Human Biology), Nutritional Sciences, Pharmacology, Physiology, Psychology, Toxicology, Zoology

Specialist Programs

Behaviour (Ecology & Evolutionary Biology), Biochemistry, Biogeography (Geography), Biological Chemistry (Chemistry), Bioinformatics & Computational Biology (Biochemistry), Biology, Biophysics (Physics), Botany, Comparative Animal Physiology (Cell & Systems Biology), Developmental Biology (Cell & Systems Biology), Ecology (Ecology & Evolutionary Biology), Environment and Health (Division of the Environment), Evolutionary Biology (Ecology & Evolutionary Biology), Genes Genetics and Biotechnology (Human Biology), Global Health (Human Biology), Health and Disease (Human Biology), Human Behavioural Biology (Human Biology), Immunology, , Molecular Genetics & Microbiology, Molecular Plant Biology (Cell & Systems Biology), Neuroscience, Pathobiology, Pharmaceutical Chemistry, Pharmacology, Physiology, Psychology, Psychology Research, Toxicology, Zoology.

Admission to all programs occurs after completion of first year (minimum 4.0 credits) or second year (minimum 8.0 credits). Admission to some specialist programs is limited. Please see individual program listings for admission criteria and procedures.

Check the *Registration Handbook and Timetable's* "Enrol in a Subject POSt" section for further details.

For those with career goals in health science, please see the "Admission to Other University Programs" section under "Admission" in this *Calendar*.

Animal Use in Laboratories

Laboratory investigations are part of life science programs at the University of Toronto. Programs in life sciences at the University of Toronto include courses that involve observation, handling, or experimentation on animals or on samples derived from animals. The use of animals in teaching and research is regulated by ethical and procedural guidelines and protocols. These are approved on an ongoing basis by the University Animal Care Committee, and follow provincial and federal government rules. We recognize, however, that some students may have strong reservations about personal exposure to any use of animal material in teaching. Students who want to avoid registration in programs or courses that include such labs are, therefore, encouraged to check in advance with the departments involved.

Given by members of the Faculty of Medicine

Faculty

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 Professors

A.M. Agur, M Sc, Ph D

Assistant Professor

C. Morshead, Ph D

Lecturer

Dr. B. Ballyk, 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

See page 31 for Key to Course Descriptions.

NOTE: For Distribution Requirement purposes, all ANA courses are classified as SCIENCE courses (see page 25).

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

Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

Faculty

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.
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
F.W. Keeley, B Sc, 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
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
C. Hogue, B Sc, Ph D
W. Houry, B Sc, Ph D
G. Lukacs, Ph D, MD
G. Privé, B Sc, Ph D
M.L. Rand, B Sc, Ph D
J. Rini, B Sc, Ph D
C.A. Smibert, B Sc, Ph D
I. Stagljar, Ph D, B Sc Dipl-Mol Biol
B. Steipe, MD, Ph D
C.M. Yip, BA Sc, Ph D

Assistant Professors

M.F. Manolson, B Sc, Ph D
A. McQuibban, PhD, M Sc, B Sc
J. Parkinson, B Sc Ph D
R. Pomès, B Eng, Ph D
A. Volchuk B Sc Ph D

Senior Lecturer

P.M. Bronskill, M Sc

Lecturer

S. Andreopoulos, M 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

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

Enquiries: Medical Sciences Building, Room 5207 (416-978-2700)
Brenda Bradshaw (brenda.bradshaw@utoronto.ca)

Web site: 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 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

Third Year:

1. BCH 335H1, 340H1, 371H1; MGY 311Y1
2. CHM 345H1/347H1
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/ BCH304H1 (departmental approval required)

Fourth Year:

1. BCH 471Y1

2. Four of: BCH 422H1/425H1/426H1/440H1/441H1/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.

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 220H1/ 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 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

Life Sciences: Biochemistry

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, MBY428H1, 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, MBY428H1, 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 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all BCB courses are classified as SCIENCE courses (see page 25).

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 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all BCH courses are classified as SCIENCE courses (see page 25).

BCH299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 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*** & SCII*** DO NOT EQUAL CHM138/139. WE CANNOT COUNT THEM AS PREREQUISITES FOR BIOCHEMISTRY COURSES.

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: BCH242Y1

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: BCH242Y1

Note

Students who have completed University of Toronto at Mississauga's CHM361H5 and 362H5 may enrol 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/242Y1, MGY311Y1/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/242Y1

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/242Y1, MGY311Y1/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/242Y1, IMM334Y1/335Y

Recommended preparation: BIO349HI/MGY311Y1/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/242Y1, MGY 311Y1/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/242Y1, MGY311Y1/BIO349HI/

PSL350HI

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: ANA304Y1, BCH305HI

Prerequisite: BIO250Y1, BCH210HI/242Y1

BCH471YI Advanced Biochemistry Laboratory 168P

Experiments demonstrating modern concepts of biochemistry and molecular biology. (Enrolment limited)

Prerequisite: (BCH335HI + 340HI + 371HI)/(CHM361H5 [UTM] + 362H5 [UTM] + 371H5 [UTM]) + MGY311Y1

BCH473YI Advanced Research Project in Biochemistry 154P

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: BCH471YI

Given by Members of the Departments of Cell and Systems Biology, and Ecology and 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; instead, biology courses which had been taught by the departments of Botany and Zoology will now be taught by members of the departments Cell and Systems Biology, and Ecology and Evolutionary Biology. Each of these new departments offers its own programs and courses, but also jointly offers Biology programs. Courses are available in the subject areas of behaviour, evolution, ecology, cell and molecular biology, genetics, and developmental biology. In addition, there are courses offering a field experience for students. Students should consult the Cell and Systems Biology, and Ecology and Evolutionary Biology entries in this Calendar. Because many areas of biology draw on mathematics and the physical sciences, background preparation in mathematics, chemistry and physics is recommended for students pursuing a major or specialist in biology.

Students entering their first year in the life sciences typically take BIO 150Y1. BIO 150Y1 is taken by students who have successfully completed OAC or grade 12 Biology (or an equivalent course) and is a prerequisite for almost all further courses in the life sciences. All students, regardless of campus or Faculty, must abide by the stated course prerequisites and exclusions.

Biology Programs

Enrolment in the Biology programs requires completion of four courses; no minimum GPA is required.

Note: Other sciences, particularly Chemistry and Mathematics, are essential for most advanced work in Biology.

Biology (Science program)

Consult Departments of Botany and Zoology.

Specialist program:

(12.5 or 13 full courses or their equivalent, including at least one 400-series course)

First Year:

BIO 150Y1; CHM (138H1, 139H1)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1

See also Higher Years Group 1. below. (In selecting 100-series CHM and MAT courses, students should consider prerequisites for courses they intend to take in higher years.)

Higher Years:

1. Any two of CHM (220H1, 247H1)/249H1; PHY 110Y1/138Y1/140Y1; PSY (201H1, 202H1)/(STA 220H, BIO 225H)/STA (220H1, 221H1)/(STA 220H1, JBS 229H1)/STA (250H1, 255H1)/STA (257H1, 261H1)
NOTE: One of the two courses selected here could also be taken in First Year
2. BIO 250Y1, 260H1; BOT 251Y1; ZOO 252Y1
3. One 200+ series half-course from BCH, BIO, BOT, ENV 234Y1, HMB 321H1, HPS 323H1, 333H1, JZR, MGY 312H1, ZOO (excluding BOT 202Y1, ZOO 200Y1, 214Y1, 215H1, 216H1)
4. One 300+ series BOT course
5. One 300+ series from BIO/HMB 321H1/HPS 323H1/333H1/JZR/MGY 312H1/ZOO
6. One additional 400- series BIO/BOT/ ZOO
7. Any 300+ series course in ANA, ANT 436H1, BCH, BIO, BOT, HMB 321H1, HPS 323H1, 333H1, IMM, JZR, MGY, PSL, or ZOO

Major program:

(8 full courses or their equivalent)

First Year:

BIO 150Y1; CHM (138H1, 139H1)/151Y1

Higher Years:

1. BIO 250Y1; BOT 251Y1; ZOO 252Y1
2. One 200+ series course from BCH, BIO, BOT, ENV 234Y1, HMB 321H1, HPS 323H1, 333H1, JZR, MGY 312H1, ZOO (excluding BOT 202Y1, ZOO 200Y1, 214Y1, 215H1, 216H1)
3. Two 300+ level courses in: ANA, BCH, BIO, BOT, HMB 321H1, HPS 323H1, 333H1, IMM, JZR, MGY, PSL, or ZOO

Minor program:

(4 full courses or their equivalent)

1. BIO 150Y1
2. BIO 250Y1/BOT 251Y1/ZOO 252Y1
3. One course from BIO, BOT (excluding BOT 202Y1), ENV 234Y1, MGY 460H1
4. One course from BIO, ENV 234Y1, HMB 321H1, HPS 323H1, 333H1, JZR, MGY 312H1, ZOO (excluding ZOO 200Y1, 214Y1, 215H1, 216H1)

NOTE: One of the courses chosen from 3. or 4. must be at the 300+ level.

Biogeography: see Geography

Biology, Human: see Human Biology

Biophysics: see Physics

Life Sciences: Biology

Botany (Science program)

Specialist program:

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

Enrolment in this program requires completion of four courses, including BIO 150Y1 and CHM 138H1, 139H1/151Y1 and one 100-series course from CSC 108H1, 148H1; JMB 170Y1/MAT 135Y1/136Y1/137Y1; PHY 110Y1/138Y1/140Y1; no minimum GPA is required.

First and Second Years:

1. BIO 150Y1; CHM 138H1, 139H1/151Y1
2. Two courses from: BCH 210H1; CHM (220H1, 247H1); CSC 108H1, 148H1; JMB 170Y1/MAT 135Y1/136Y1/137Y1; PHY 110Y1/138Y1/140Y1; STA 220H1, (STA 221H1/JBS 229H1)
3. BIO 250Y1, 260H1; BOT 251Y1

Higher Years:

1. ENV 234Y1 or 1.0 courses from: BIO 319H1, 321H1, 323H1, 324H1; BOT 300H1, 307H1
2. 2.5 courses from: BIO 302H1, 303H1, 305H1, 306H1, 308H1, 328H1, 349H1, 351Y1, 352H1; BOT 300+ series
3. 2.0 courses from: BIO 428H1, 440H1, 472H1, 473H1; BOT 400-series; MGY 460H1

Major program:

(8 full courses or their equivalent)

Enrolment in this program requires completion of four courses, including BIO 150Y1 and CHM 138H1, 139H1/151Y1 and one course from: CSC 108H1, 148H1; JMB 170Y1/MAT 135Y1/136Y1/137Y1; PHY 110Y1/138Y1/140Y1; no minimum GPA is required.

First Year:

1. BIO 150Y1; CHM 138H1, 139H1/151Y1
2. One course from: CSC 108H1, 148H1; JMB 170Y1/MAT 135Y1/136Y1/137Y1; PHY 110Y1/138Y1/140Y1

Higher Years:

1. BIO 250Y1; BOT 251Y1
2. One 200+ level course in BCH 210H1, BIO, BOT, ENV 234Y1 (excluding BOT 202Y1)
3. Two courses from: BIO 302H1, 303H1, 305H1, 306H1, 308H1, 328H1, 349H1, 351Y1, 352H1, 428H1, 440H1, 472H1, 473H1; BOT 300+ series; MGY 460H1

Minor program:

(4 full courses or their equivalent)

Enrolment in this program requires completion of four courses, including BIO 150Y1; no minimum GPA is required.

1. BIO 150Y1; BOT 251Y1
2. One full course from BIO/BOT/ENV/MGY 460H1 (excluding BOT 202Y1)
3. One BOT 300+ level course

Developmental Biology: see **Cell and Systems Biology**

Ecology: see **Ecology and Evolutionary Biology**

Evolutionary Biology: see **Ecology and Evolutionary Biology**

Zoology (Science program)

Note

Students in these Programs are encouraged to notify the departments of Cell and Systems Biology, and Ecology and Evolutionary Biology annually of their course selections, beginning in the Second Year.

Enrolment in the Specialist, Major and Minor programs listed below requires completion of four courses; no minimum GPA is required.

Specialist program:

(12.5 or 13 full courses or their equivalent, including at least one 400-series course)

1. BIO 150Y1, 250Y1, 260H1/HMB265H1 (BIO 260H1 is recommended), ZOO 252Y1
2. CHM (138H1, 139H1)/151Y1
3. JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1 (MAT 135Y1 may be required for certain courses)
4. CHM (220H1, 247H1)/249H1/ PSY (201H1, 202H1)/(STA 220H1, BIO 225H1)/STA (220H1, 221H1)/(STA 220H1, JBS 229H1)/STA (250H1, 255H1)/STA (257H1, 261H1)
5. CHM (220H1, 247H1)/249H1/ MAT 235Y1/237Y1/PHY 110Y1/138Y1/PSY 100H1/(201H1, 202H1)/(STA 220H1, BIO 225H1)/STA (220H1, STA 221H1)/(STA 220H1, JBS 229H1)/STA (250H1, 255H1)/STA (257H1, 261H1)
6. 5.5 courses from ANT 436H1, BIO, ENV 234Y1, HMB 321H1, HPS 323H1, 333H1, JZP, MGY 312H1, ZOO (except ZOO 200Y1, 214Y1, 215H1, 216H1) containing at least 78 hours of lab (field courses are equivalent to 52P). Of the 5.5 courses at least three must be at the 300+ level and one at the 400-level.

Major program:

(7.5 or 8 full courses or their equivalent)

1. BIO 150Y1, 250Y1, ZOO 252Y1
2. CHM (138H1, 139H1)/151Y1
3. CHM (220H1, 247H1)/249H1/ JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1/PSY (201H1, 202H1)/STA 220H1, (STA 221H1/JBS 229H1)/STA (250H1, 255H1)/(257H1, 261H1)
4. Any other three courses in BIO, ENV 234Y1, HMB 321H1, HPS 323H1, 333H1, JZP, MGY 312H1, ZOO (except ZOO 200Y1, 214Y1, 215H1, 216H1). At least two courses must be at the 300+ level.

Minor program:

(4 full courses or their equivalent)

1. BIO 150Y1
2. BIO 250Y1/ZOO 252Y1
3. Any two other courses from BIO, ENV 234Y1, HMB 321H1, HPS 323H1, 333H1, JZP, MGY 312H1, ZOO (except ZOO 200Y1, 214Y1, 215H1, 216H1). One course must be at the 300+ level.

Biology Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), all BIO and Joint BIO courses are classified as SCIENCE courses.

All of the courses listed below will be administered through two new departments as of 1 July 2006. These are Cell and Systems Biology and Ecology and Evolutionary Biology. Below indicates which department to go to for each course. **Both of these departments are listed under Life Sciences.**

BIO150YI Organisms in their Environment

See Ecology and Evolutionary Biology

JMB170YI Biology, Models, and Mathematics

See Cell and Systems Biology, & Ecology and Evolutionary Biology

BIO 225HI Biostatistics for Biological Sciences

See Cell and Systems Biology, & Ecology and Evolutionary Biology

JBS229HI Statistics for Biologists

See Cell and Systems Biology, & Ecology and Evolutionary Biology

ENV234YI Environmental Biology

See Centre for Environment

BIO250YI Cell and Molecular Biology

See Cell and Systems Biology

BIO260HI Concepts in Genetics

See Cell and Systems Biology

BIO301HI Marine Biology

See Ecology and Evolutionary Biology

BIO302HI Arctic Ecosystems

See Ecology and Evolutionary Biology

BIO303HI Tropical Ecology and Evolution

See Ecology and Evolutionary Biology

BIO305HI Experimental Ecology in Southern Ontario

See Ecology and Evolutionary Biology

BIO306HI Inter-University Field Courses

See Ecology and Evolutionary Biology

BIO307HI Alpine Ecosystems

See Ecology and Evolutionary Biology

BIO308HI Biodiversity and Ecology in Southeast Asia

See Ecology and Evolutionary Biology

BIO310HI Crustacean Aquaculture in Thailand: Physiological and Molecular Approaches

See Ecology and Evolutionary Biology

BIO319HI Population Ecology

See Ecology and Evolutionary Biology

BIO321HI Community Ecology

See Ecology and Evolutionary Biology

BIO323HI Evolution

See Ecology and Evolutionary Biology

BIO324HI Evolutionary Ecology

See Ecology and Evolutionary Biology

BIO328HI Physiological Ecology

See Ecology and Evolutionary Biology

BIO349HI Eukaryotic Molecular Biology (formerly JLM349HI)

See Cell and Systems Biology

BIO351YI Introductory Virology

See Cell and Systems Biology

BIO352HI Applied Bioinformatics

See Cell and Systems Biology

BIO365HI Biodiversity and Conservation Biology

See Ecology and Evolutionary Biology

BIO370HI Theoretical Ecology and Evolution

See Ecology and Evolutionary Biology

BIO428HI Global Change Ecology

See Ecology and Evolutionary Biology

BIO440HI Ecology and Evolution of Plant-Animal Interactions

See Ecology and Evolutionary Biology

BIO458HI Epigenetics

See Cell and Systems Biology

BIO459HI Population Genetics

See Ecology and Evolutionary Biology

BIO460HI Molecular Evolution

See Ecology and Evolutionary Biology

BIO461HI Chromosome Biology (formerly BIO359HI)

See Cell and Systems Biology

BIO463HI Evolutionary Genomics

See Ecology and Evolutionary Biology

BIO465HI Topics in Conservation Biology

See Ecology and Evolutionary Biology

BIO468HI Lectures in Limnology

See Ecology and Evolutionary Biology

BIO469HI Limnology

See Ecology and Evolutionary Biology

BIO471HI Quantitative Ecology

See Ecology and Evolutionary Biology

BIO472HI Computational Genomics and Bioinformatics

See Cell and Systems Biology

BIO473HI Chemical Genomics

See Cell and Systems Biology

BIO482YI Topics in Developmental Biology (formerly ZOO 482YI)

See Cell and Systems Biology

BIO494YI Seminar in Evolutionary Biology

See Ecology and Evolutionary Biology

BIO495YI Seminar in Ecology

See Ecology and Evolutionary Biology

BIO496YI Seminar in Behaviour and Behavioural Ecology

See Ecology and Evolutionary Biology

Faculty

University Professor Emeritus

J. Dainty, MA, D Sc, FRSC (N)

Professors Emeriti

P.W. Ball, B Sc, Ph D (UTM)
N.G. Dengler, MS, Ph D
M.C. Heath, B Sc, Ph D, FRSC
J.A. Hellebust, MA, Ph D
V.J. Higgins, MS, Ph D
M.H. Hubbes, Dr Dipl Ing Agr †
R.L. Jefferies, B Sc, Ph D
D.W. Malloch, MA, Ph D
P.F. Maycock, M Sc, Ph D (UTM)
J.H. McAndrews, MS, Ph D †
C. Nalewajko, B Sc, Ph D (S)
Z.A. Patrick, B Sc, Ph D
J.C. Ritchie, Ph D, D Sc (S)
N.A. Straus, M Sc, Ph D (U)
J. Svoboda, B Sc, Ph D (UTM)
J.P. Williams, B Sc, Ph D

Professor and Chair of the Department

R.F. Sage, MS, Ph D

Associate Professor and Associate Chair (Graduate Affairs)

J.E. Eckenwalder, M Sc, Ph D

Professors

M.G. AbouHaidar, M Sc, Ph D
J.B. Anderson, BA, Ph D (UTM)
S.C.H. Barrett, B Sc, Ph D, FRSC
T. Berleth, Diplom, Ph D
T.J. Blake, MF, B Th, Ph D †
J.R. Coleman, B Sc, Ph D (U)
W.R. Cummins, B Sc, Ph D (UTM)
G.S. Espie, B Sc, Ph D (UTM)
D.R. Goring, M Sc, Ph D
P.A. Horgen, MS, Ph D (UTM)
L.M. Kohn, B Sc, Ph D (UTM)
P. McCourt, B Sc, Ph D
J.D. Thomson, MS, Ph D †
V.R. Timmer, M Sc F, Ph D †

Associate Professors

M.M. Campbell, B Sc, Ph D
T.J. Carleton, B Sc, Ph D
T.A. Dickinson, M Sc, Ph D †
M.S.V. Douglas, M Sc, Ph D †
R.R. Fulthorpe, M Sc, Ph D (S) †
D.S. Guttman, B Sc, Ph D
C.A. Hasenkampf, MS, Ph D (S)
P.M. Kotanen, M Sc, Ph D (UTM)
H.J. Kronzucker, B Sc, Ph D (S)
J.-M. Moncalvo, M Sc, Ph D †
C.D. Riggs, B Sc, Ph D (S)
G.C. Vanlerberghe, B Sc, Ph D (S)

Assistant Professors

D. Christendat, B Sc, Ph D
S.R. Cutler, M Sc, Ph D
D. Desveaux, M Sc, Ph D
S. Gazzarrini, M Sc, Ph D (S)
N.J. Provart, M Sc, Ph D
T.L. Sage, MS, Ph D
S. Stefanovic, M Sc, Ph D (UTM)
J.R. Stinchcombe, BA, Ph D
S.C. Thomas, BA, Ph D †
K. Yoshioka, MS, Ph D

Senior Lecturers

C.A. Goldman, M Sc

† Cross-appointed

The Department of Botany (and the Department of Zoology) will be disestablished as of July 1, 2006, and its faculty, programs and courses will become part of the new departments of Cell and Systems Biology (CSB), and Ecology and Evolutionary Biology (EEB). During the transition period, courses in Biology, Botany, and Zoology that will be administered through CSB are now listed under that department name in the Calendar. The same is true for the courses that apply to EEB. With regard to the programs, please see below for the listing of programs and where you can now find them in the Calendar.

Botany Programs

Biogeography: see **Geography**

Biology: see **Biology**

Botany: see **Biology**

Bioinformatics and Computational Biology: see **Biochemistry**

Developmental Biology: see **Cell and Systems Biology**

Ecology: see **Ecology and Evolutionary Biology**

Evolutionary Biology: see **Ecology and Evolutionary Biology**

Molecular Plant Biology: see **Cell and Systems Biology**

Botany Courses

See page 31 for Key to Course Descriptions..

For Distribution Requirement purposes, all BIO and BOT courses, ENV 234Y1, and JMB 170Y1 are classified as SCIENCE courses (see page 25).

All of the courses listed below will be administered through two new departments as of 1 July 2006. These are Cell and Systems Biology and Ecology and Evolutionary Biology. Below indicates which department to go to for each course. **Both of these departments are listed under Life Sciences.**

BIO150Y1 Organisms in Their Environment

See Ecology and Evolutionary Biology

BIO 225H1 Biostatistics for Biological Sciences

See Cell and Systems Biology, & Ecology and Evolutionary Biology

BIO250Y1 Cell and Molecular Biology

See Cell and Systems Biology

BIO260H1 Genetics

See Cell and Systems Biology

BIO302H1 Arctic Ecosystems

See Ecology and Evolutionary Biology

BIO303H1 Tropical Ecology and Evolution

See Ecology and Evolutionary Biology

BIO305H1 Experimental Ecology in Southern Ontario

See Ecology and Evolutionary Biology

BIO306H1 Inter-University Field Courses

See Ecology and Evolutionary Biology

BIO307H1 Alpine Ecosystems

See Ecology and Evolutionary Biology

BIO308H1 Biodiversity and Ecology in Southeast Asia

See Ecology and Evolutionary Biology

BIO319H1 Population Ecology

See Ecology and Evolutionary Biology

BIO321H1 Community Ecology

See Ecology and Evolutionary Biology

BIO323H1 Evolution

See Ecology and Evolutionary Biology

BIO324H1 Evolutionary Ecology

See Ecology and Evolutionary Biology

BIO328H1 Physiological Ecology (formerly BOT328H1)

See Ecology and Evolutionary Biology

BIO349H1 Eukaryotic Molecular Biology (formerly JLM349H1)

See Cell and Systems Biology

BIO351Y1 Introductory Virology

See Cell and Systems Biology

BIO352H1 Applied Bioinformatics

See Cell and Systems Biology

BIO365H1 Biodiversity and Conservation Biology

See Ecology and Evolutionary Biology

BIO370H1 Theoretical Ecology and Evolution

See Ecology and Evolutionary Biology

BIO428H1 Global Change Ecology

See Ecology and Evolutionary Biology

BIO440H1 Ecology and Evolution of Plant-Animal Interactions

See Ecology and Evolutionary Biology

BIO458H1 Epigenetics

See Cell and Systems Biology

BIO459H1 Population Genetics

See Ecology and Evolutionary Biology

BIO460H1 Molecular Evolution

See Ecology and Evolutionary Biology

BIO461H1 Chromosome Biology

See Cell and Systems Biology

BIO463H1 Evolutionary Genomics

See Ecology and Evolutionary Biology

BIO465H1 Conservation Biology (formerly BIO395H1)

See Ecology and Evolutionary Biology

BIO468H1 Lectures in Limnology

See Ecology and Evolutionary Biology

BIO469H1 Limnology

See Ecology and Evolutionary Biology

BIO471H1 Quantitative Ecology

See Ecology and Evolutionary Biology

BIO472H1 Computational Genomics & Bioinformatics

See Cell and Systems Biology

BIO473H1 Chemical Biology

See Cell and Systems Biology

BIO482Y1 Topics in Developmental Biology (formerly ZOO482Y1)

See Cell and Systems Biology

BIO494Y1 Seminar in Evolutionary Biology

See Ecology and Evolutionary Biology

BIO495Y1 Seminar in Ecology

See Ecology and Evolutionary Biology

BIO496Y1 Seminar in Behaviour and Behavioural Ecology

See Ecology and Evolutionary Biology

ENV234Y1 Environmental Biology

See Centre for Environment

JBS229H1 Statistics for Biologists

See Cell and Systems Biology, & Ecology and Evolutionary Biology

JMB170Y1 Biology, Models, and Mathematics

See Cell and Systems Biology, & Ecology and Evolutionary Biology

MGY460H1 Plant Molecular Genetics

See Molecular Genetics & Molecular Biology

SC1199H1/Y1 First Year Seminar

See Cell and Systems Biology, & Ecology and Evolutionary Biology

Life Sciences: Botany

BOT202Y1 Plants and Society

See Ecology and Evolutionary Biology

BOT251Y1 Biology of Plants and Micro-organisms

See Ecology and Evolutionary Biology

BOT299Y1 Research Opportunity Program

See Cell and Systems Biology, & Ecology and Evolutionary Biology

BOT300H1 Systematic Botany

See Ecology and Evolutionary Biology

BOT301H1 Introduction to the Fungi

See Ecology and Evolutionary Biology

BOT304H1 Field Botany

See Ecology and Evolutionary Biology

BOT307H1 Families of Vascular Plants

See Ecology and Evolutionary Biology

BOT310H1 Comparative Plant Morphology

See Ecology and Evolutionary Biology

BOT340H1 Plant Development

See Cell and Systems Biology

BOT341H1 Plant Anatomy

See Ecology and Evolutionary Biology

BOT350H1 Laboratory in Molecular Plant Biology

See Cell and Systems Biology

BOT351H1 Introduction to Plant-Microbe Interactions

See Cell and Systems Biology

BOT398H0/ 399Y0 Independent Experiential Study Project

See Cell and Systems Biology, & Ecology and Evolutionary Biology

BOT404H1 Biology of Moulds

See Ecology and Evolutionary Biology

BOT421H1 Plant Cell Metabolism

See Cell and Systems Biology

BOT450H1 Plant Proteomics and Metabolomics

See Cell and Systems Biology

BOT452H1 Plant-Microorganism Interaction

See Cell and Systems Biology

BOT458H1 Plant Molecular Biology and Biotechnology

See Cell and Systems Biology

BOT460Y1/ 461H1 Project in Botany

See Cell and Systems Biology, & Ecology and Evolutionary Biology

BOT462Y1/ 463H1 Advanced Topics in Botany

See Cell and Systems Biology, & Ecology and Evolutionary Biology

Life Sciences: Cell and Systems Biology

The new Department of Cell and Systems Biology (starting date: July 1, 2006), 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.

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).

For 2006-7, the courses and programs offered by the previous departments of Botany and Zoology will continue to be available. All students currently pursuing these programs, and those starting in these programs, will be able to complete them. As new programs are developed, students may be able to transfer into them, depending on the courses they have taken.

Student Counseling and Enquiries:

Contact the Undergraduate Office in the Ramsay Wright Zoological Laboratories and consult the departmental website.

Cell and Systems Biology Programs

Bioinformatics and Computational Biology: see Biochemistry

Biology: see Biology

Botany: see Biology

Comparative Animal Physiology (Science program)

Specialist program:

(12 or 12.5 full courses or their equivalent, including at least one 400-series course)

First Year:

BIO 150Y1; CHM (138H1, 139H1)/151Y1; JMB 170Y1/MAT 135Y1/137Y1; PHY 110Y1/138Y1/140Y1

Higher Years:

1. BIO 250Y1, 260H1/HMB 265H1 (BIO 260H1 is recommended); CHM (220H1, 247H1)/249H1; ZOO 252Y1
2. STA 220H1
3. BCH 210H1
4. JZP 326H1/ZOO 345H1/346H1; ZOO 325H1/344H1; ZOO 332H1; ZOO 347H1

5. ZOO (425H1, 430H1)/485Y1

6. One full course equivalent from: BOT 251Y1/BCH 370H1/BIO 349H1/JZP 428H1/PSL 302Y1/372H1/ZOO 498Y1

Developmental Biology (Science program)

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 138H1, 139H1/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1.

Specialist program:

(12.5 -13 full courses or their equivalent, including at least one 400-series course)

First Year:

BIO 150Y1; CHM (138H1, 139H1)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1

Higher Years:

1. BCH 210H1; BIO 250Y1, 260H1; BOT 251Y1/ZOO 252Y1; CHM 220H1/247H1/249H1
2. BIO 349H1/MGY 311Y1*
3. BOT 340H1; ZOO 328H1
4. 2.5 (or 3.5**) courses from: ANA 300Y1, ANA 301H1; BCH 304H1, 340H1, 370H1, 425H1, 426H1; BIO 460H1, 472H1, 473H1; BOT 310H1, 341H1, 350H1, 450H1, 458H1; IMM 334Y1/335Y1, 429H1; JBI 428H1; MGY 312H1, 425H1, 428H1, 451H1, 452H1, 460H1, 470H1; PSL 303Y1, 420H1, ZOO 327H1, 329H1, 330H1, 331H1, 344H1, 425H1
5. 1.0 (or 2.0**) courses from BIO 458H1, 461H1, 482Y1; BOT 460Y1; MGY 480Y1; ZOO 429H1, 430H1, 498Y1

*With permission of Undergraduate Secretary, Department of Medical Genetics and Molecular Biology

**Requirements 4 and 5 must include a total of at least 4.5 full courses

Molecular Plant Biology (Science program)

Specialist program:

(11.5 or 12 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 138H1, 139H1/151Y1 and JMB 170Y1/MAT 135Y1/136Y1/137Y1; no minimum GPA is required.

First Year:

BIO 150Y1; CHM 138H1, 139H1/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1

Second Year:

BCH 210H1, BIO 250Y1, 260H1; BOT 251Y1; CHM 220H1, 247H1

Third and Fourth Years:

1. BOT 458H1; BIO 349H1/MGY311Y1*; MGY 460H1
2. 3.0 courses from BIO 351Y1, 472H1, 473H1; BOT 301H1, 340H1, 341H1, 350H1, 421H1, 450H1, 452H1, 460Y1, 461H1, 462Y1, 463H1

NOTE: no Molecular Plant Biology Major program exists; therefore, a student may qualify for a Botany major after third year.

*With permission of Undergraduate Secretary, Department of Medical Genetics and Molecular Biology

Neuroscience: see Neuroscience

Zoology: see Biology

Life Sciences: Cell and Systems Biology

Cell and Systems Biology Courses

For Distribution Requirement purposes, all BIO, BOT and ZOO courses, ENV 234Y1, and JMB 170Y1 are classified as SCIENCE courses (see page 25).

BIO 225HI Biostatistics for Biological Sciences 26L, 26P

This course presents biostatistics to students in the life sciences using biological examples where appropriate. Students will 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: ECO 220Y1/227Y1/GGR 270HI/PSY 202HI/SOC 300Y1/STA 221HI/250HI/JBS 229HI

Prerequisite: BIO 150Y1, STA 220HI

BIO250Y1 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/>

Prerequisite: BIO150Y1, CHM (138HI, 139HI)/151Y1

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: BIO150Y1

Co-requisite: BIO250Y1

BIO349HI Eukaryotic Molecular Biology 22L, 18T (formerly JLM349HI)

Genome organization and evolution, gene expression and regulation, differentiation and development. Consult web pages for details: <http://bio349s.chass.utoronto.ca/>

Exclusion: MGY311Y1, PSL350HI

Prerequisite: BIO250Y1, BIO260HI/HMB265HI

Recommended preparation: BCH210HI/320Y1

BIO351Y1 Introductory Virology 52L, 104T

An introduction to basic and medical virology. Attendance in tutorials is optional.

Prerequisite: BIO250Y1

BIO352HI Applied Bioinformatics 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 bioinformatics tools to analyze data and generate biological hypotheses.

Exclusion: BCB Specialist program students

Prerequisite: BIO250Y1, BIO260HI/HMB265HI

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 faculty. Students can enrol in only one of these. However, students wishing to take an additional course should contact the Cell and Systems Biology, and Ecology and Evolutionary Biology Undergraduate Offices.

BIO458HI Epigenetics 39S

A seminar course exploring non-Mendelian phenomena in plants, fungi and animals that reveal aspects of genome organization and regulation that may provide insight into genome function and evolution.

Prerequisite: BIO 260HI/HMB 265HI, BIO 349HI/MGY 311Y1

Recommended preparation: HMB 321HI

BIO461HI Chromosome Biology 26L, 26T (formerly BIO359HI)

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: BIO359HI

Prerequisite: BIO250Y1, 260HI/HMB265HI, BIO349HI/HMB 321H/MGY311Y1

BIO472HI Computational Genomics 26L, 13T and Bioinformatics

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

Prerequisite: BIO250Y1

Recommended preparation: BIO 260HI/HMB 265HI

BIO473HI Chemical Genomics 26L

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.

Prerequisite: BIO150Y1, CHM247HI

Recommended Preparation: BIO250Y1, BCH210HI

BIO482Y1 Topics in Developmental Biology 52S (formerly ZOO 482Y1)

A class directed seminar analyzing the major problems in developmental biology from cellular, genetic, and molecular perspectives.

Exclusion: ZOO 482Y1

Prerequisite: BOT340HI and/or ZOO 328HI

BOT299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

BOT340HI Plant Development 26L

Plant developmental genetics at the molecular, cellular and organismal level, generation and use of genomic resources in plant

400-Series Courses

Note

BIO 482Y1, 494Y1, 495Y1, 496Y1, and ZOO 485Y1 are courses that are advanced in level but are broader in scope, emphasizing

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model organisms. Plant embryo and meristem development, as well as vascular tissue patterning. Genomic approaches applicable in plant biotechnology include the generation of enhancer-trap and activation-tag collections as well as the exploitation of natural genetic variation to improve fibre properties in trees.
Prerequisite: BIO150Y1, 250Y1, 260H1

BOT350H1 Laboratory in Molecular Plant Biology 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.
Prerequisite: BIO250Y1, BIO260H1/HMB265H1
Exclusion: ZOO330H1

Recommended preparation: BOT251Y1 or higher level plant biology course; BIO349H1/MGY311Y1 concurrently

BOT351H1 Introduction to Plant-Microbe Interactions 26L

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.
Prerequisite: BIO150Y1

Recommended preparation: BOT251Y1

BOT398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

BOT421H1 Plant Cell Metabolism 26L

Advanced plant metabolism in relation to primary and secondary biosynthetic processes. Developments in metabolism of acetate, mevalonate, aromatic amino acid and compounds of mixed biosynthetic origin.
Prerequisite: BCH210H1/BIO250Y1

BOT450H1 Plant Proteomics and Metabolomics 26L

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.
Prerequisite: BIO250Y1, BCH210H1

BOT452H1 Plant-Microorganism Interaction 24L

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.
Prerequisite: MGY311Y1/BIO349H1
Recommended preparation: BOT251Y1

BOT458H1 Plant Molecular Biology and Biotechnology 26L

This course introduces students to major features of gene expression and signal transduction in plants. Topics include strategies for generating transgenic plants and regulating gene expression, as well as the importance of signal transduction in plant growth and survival. How plants sense and respond at the molecular level to environmental stresses such as drought, salinity, cold and disease will be discussed. The application of this basic

scientific information in biotechnological strategies for improving agronomic traits will also be addressed..

Prerequisite: BIO349H1/MBG311Y1

BOT460Y1/ Project in Botany TBA 461H1

A research project, requiring the prior consent of a member of the Department to supervise the project. The topic is to be agreed on by the student and supervisor before enrolment in the course; they must also arrange the time, place, and provision of any materials. Written and oral reports are required. Normally open only to fourth-year students with adequate background in Botany. Exclusion: If BOT460Y1 is taken then BOT461H1 may not be taken for credit

Prerequisite: Permission of Department

BOT462Y1/ Advanced Topics in Botany TBA 463H1

Selected research/lecture topics in plant sciences offered to advanced students. Students completing a second research project may not be supervised by their BOT460Y1/461H1 faculty sponsor. Exclusion: If BOT462Y1 is taken then BOT463H1 may not be taken for credit

Prerequisite: Permission of instructor

JBS229H1 Statistics for Biologists 39L, 13T

Continuation of STA220H1, jointly taught by Statistics and Biology faculty, emphasizing methods and case studies relevant to biologists including experimental design and ANOVA, regression models, categorical and non-parametric methods.

Exclusion: ECO220Y1/227Y1/PSY201H1/SOC201Y1/STA221H1/222Y1/242Y1/250H1/255H1/257H1

Prerequisite: STA220H1

JBS229H1 does not count as a distribution requirement course.

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; and chaos. This course is intended for students in the life sciences. Co-requisite: BIO150Y1

JZP326H1 Biological Rhythms 26L, 13T

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 adaptive value of rhythms to animals. (Given by the Departments of Psychology and Zoology)

Prerequisite: BIO150Y1/PSY100H1; one full or two 200-series half-courses in the Sciences

JZP428H1 Advanced Topics in Biological Rhythms 26S

Circadian rhythms with emphasis on non-photic entrainment and phase shifting of rhythms by behaviour (e.g., social interactions, or becoming active). Properties and physiological mechanisms for non-photic effects and comparisons with those for photic effects. Seminars and readings of original papers. Emphasis on basic principles, but possible applications are also discussed. (Given by the Departments of Psychology and Zoology)

Prerequisite: JZP326H1

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MGY460HI Plant Molecular Genetics
See “Molecular Genetics and Molecular Biology”

SCII99HI/YI First Year Seminar 52S
Undergraduate seminar that focuses on specific ideas, questions, phenomena or controversies, taught by a regular Faculty member engaged in the discipline. Open only to newly admitted first year students. It may serve as a breadth requirement course; see page 45.

ZOO200YI Aspects of Human Biology 52L, 26T
Biological issues and concepts. Human interactions with each other, with other species, and with the physical environment. Human biological and cultural evolution (mechanisms, changes in anatomy, behaviour, conceptualization, resource consumption, biotechnology); sexuality (development, theories and controversies in current research); population growth and environmental impact (carrying capacity, water and land use; pollution, resource management); environmental health (biodiversity, food supply, pesticides, ethics and decision-making).
This course counts as a Science Distribution Requirement for students in all years and disciplines; particularly suitable for Humanities and Social Science students.

ZOO252YI Introductory Animal Physiology 52L, 24P
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, salt and water balance, respiration, thermoregulation, reproduction and metabolic processes.
Prerequisite: BIO150Y1

ZOO325HI Endocrine Physiology 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.
Prerequisite: ZOO 252Y1/PSL 302Y1
Recommended preparation: ZOO 265Y1

ZOO327HI Extracellular Matrix Macromolecules 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.
Prerequisite: BIO250Y1

ZOO328HI Developmental Biology I 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.
Prerequisite: BIO250Y1, 260HI/HMB 265HI

ZOO329HI Evolution of Development 26L, 26T
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.
Prerequisite: BIO250Y1, 260HI/HMB 265HI
Recommended preparation: ZOO 328HI

ZOO330HI Techniques in Molecular, Cellular and Developmental Biology 13L, 39S
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
Prerequisite: BIO 250Y1, BIO 260HI/HMB 265HI
Recommended preparation: ZOO328HI

ZOO331HI Cell Adhesion and Migration in Development 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
Prerequisite: BIO 250Y1

ZOO332HI Neurobiology of the Synapse 26L, 13T
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.
Prerequisite: PSL201Y1/302Y1/ZOO252Y1

ZOO344HI Comparative Endocrinology of Invertebrates 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.
Prerequisite: ZOO252Y1

ZOO 345HI Biology of Sleep 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.
Prerequisite: PSL302Y1/ZOO252Y1

ZOO346HI Neurobiology of Respiration 26L, 13T
Integrated control of cardio-respiratory physiology and metabolism in vertebrates. Topics include exercise, diving, sleep and hibernation.
Prerequisite: ZOO252Y1/ PSL302Y1

ZOO347HI Comparative Cellular Physiology 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

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organism responses will be investigated. Broad-ranging common strategies among diverse organisms are examined.

Prerequisite: ZOO252Y1/PSL302Y1

ZOO357HI Biology of Vector-Borne 26L, 24P, 10T Parasitic Diseases

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: JZM 357H1, 358H1

Prerequisite: BIO 250Y1

ZOO398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

400-Series Courses

Note

BIO 482Y1, 494Y1, 495Y1, 496Y1, and ZOO 485Y1 are courses that are advanced in level but are broader 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 faculty. Students can enrol in only one of these. However, students wishing to take an additional course should contact the Cell and Systems Biology, and Ecology and Evolutionary Biology Undergraduate Offices.

ZOO 425HI Endocrinology of 26L, 13T Transformation

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.

Prerequisite: ZOO 325H1/PSL 424H1; CGPA 2.7

ZOO 429HI Germ Cell Biology 13L, 13S

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.

Prerequisite: BIO 349H1/BOT 340H1/ MGY312H1/ZOO 328H1/329H1

ZOO 430HI Developmental Neurobiology 26L, 13T

An examination of the molecular genetic basis of nervous system formation. Experimental evidence from recent studies in selected invertebrate and vertebrate species will be discussed.

Topics include the evolution of neural development, neural cell fate determination, stem cell function, axon guidance and synaptogenesis, and adult neurogenesis.

Prerequisite: (NRS 201H1, 202H1)/ZOO328H1

ZOO485Y1 Research in Physiology 26T, 78P

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.

Prerequisites: PSL302Y1/ZOO252Y1; one course from ZOO325H1/332H1/344H1/346H1/347H1/375H1, 300-level laboratory courses(s) with 39P

ZOO498Y1 Project in Zoology I 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 Zoology. 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.

ZOO499Y1 Project in Zoology II TBA

Allows students to do a second independent project, supervision of which must be different from ZOO498Y1. Operates in the same manner as ZOO498Y1.

Prerequisites: ZOO498Y1

Life Sciences: Ecology and Evolutionary Biology

The Department of Ecology and Evolutionary Biology (EEB) arose, along with its sister department, the Department of Cell and Systems Biology, from a reorganization of the previous departments of Botany and Zoology. Ecologists and evolutionists 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 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 in addition to laboratory and field studies. We offer a very wide range of courses that deal with molecular evolution, population and quantitative genetics, animal behaviour, population, community and landscape ecology, evolutionary and ecological theory, bioinformatics, 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.

For 2006-7, the courses and programs offered by the previous departments of Botany and Zoology will continue to be available. All students currently pursuing these programs, and those starting in these programs, will be able to complete their degrees within them. As new EEB programs are developed, students may be able to transfer into them, depending on the courses they have taken.

Students entering their first year in the life sciences typically take BIO 150Y1. BIO 150Y1 is taken by students who have successfully completed OAC or grade 12 Biology (or an equivalent course) and is a prerequisite for almost all further courses in the life sciences. All students, regardless of campus or Faculty, must abide by the stated course prerequisites and exclusions.

Student Counselling and Enquiries:

Contact the Undergraduate Office in the Earth Sciences Centre and consult the departmental website.

Ecology and Evolutionary Biology Programs

Behaviour (Science program)

Students wishing to take PSY courses to fulfill the requirements of this program should take PSY 100H1. To take additional PSY courses, students must be enrolled in a PSY program or have obtained a minimum of 70% in PSY 100H1.

Specialist program:

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

First Year: BIO 150Y1; CHM (138H1, 139H1)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1

Higher Years:

1. BIO 250Y1, 260H1/HMB 265H1 (BIO 260H1 is recommended); PSY (290H1, 391H1)/ZOO 252Y1
2. ZOO 322H1
3. PSY (201H1, 202H1)/(STA 220H1, BIO 225H1)/STA (220H1, 221H1)/(STA 220H1, JBS 229H1)/STA (250H1, 255H1)/STA (257H1, 261H1)
4. BIO 323H1, 324H1;
BIO 301H1/302H1/303H1/305H1/306H1/307H1/308H1/469H1/
ZOO 304H1/360H1/361H1; BIO 494Y1/495Y1/496Y1
5. 3.5 courses from ANT 436H1, BIO, ENV 234Y1, HMB 321H1, HPS 323H1, 333H1, JZP, PSY (except PSY 300H1), ZOO (except ZOO 200Y1, 214Y1, 215H1, 216H1), 1.5 of which must be at the 300+ level. JZP 326H1, 428H1; PSY 260H1, 280H1, 362H1, 369H1, 390H1, 392H1, 393H1, 396H1, 399H1, 460H1, 490H1; ZOO 362H1, are recommended for this program.

Biology: see Biology

Botany: see Biology

Ecology (Science program)

Specialist program:

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

First Year:

BIO 150Y1; CHM (138H1, 139H1)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1

Higher Years:

1. BIO 250Y1, 260H1, 323H1; BOT 251Y1/ZOO 252Y1; ENV 234Y1/ZOO265Y1
2. PSY (201H1, 202H1)/(STA 220H, BIO 225H)/STA (220H1, 221H1)/(STA 220H1, JBS 229H1)/STA (250H1, 255H1)/STA (257H1, 261H1)
3. BIO 301H1/302H1/303H1/305H1/306H1/307H1/308H1/
469H1/ZOO 304H1/360H1/361H1
4. Two courses from: BIO 319H1, 321H1, 324H1, 328H1, 365H1, ZOO 322H1
5. One course from: BIO 494Y1, 495Y1, 496Y1
6. Two courses from: ANT 436H1, BIO, BOT (except BOT 202Y1), CHM, ENV (except ENV 200Y1), GGR (only science courses), GLG (except GLG 100H1, 103H1, 105H1, 110H1), HMB 321H1, HPS 323H1, 333H1, JZP, MAT, PHY (except PHY 100H1, 110Y1), STA, ZOO (except ZOO 200Y1, 214Y1, 215H1, 216H) and at least 0.5 course at the 300+ level. BIO 370H1, 428H1, 440H1, 465H1, 469H1, 471H1, ZOO 373H1, 375H1 are recommended for this program

Environmental Biology (Minor): see Centre for Environment

Evolutionary Biology (Science program)

Consult Departments of Zoology and Botany.

Specialist program:

(12.5 or 13 full courses or their equivalent, including at least one 400-series course)

First Year:

BIO 150Y1; CHM (138H1, 139H1)/151Y1; JMB 170Y1/MAT 135Y1/136Y1/137Y1/157Y1

Higher Years:

Life Sciences: Ecology and Evolutionary Biology

- BIO 250Y1, 260H1; BOT 251Y1/ZOO 252Y1
- CHM (220H1, 247H1)/249H1/ PSY (201H1, 202H1)/(STA 220H1, BIO 225H1)/STA (220H1, 221H1)/(STA 220H, JBS 229H1)/STA (250H1, 255H1)/STA (257H1, 261H1)
- CHM (220H1, 247H1)/249H1/ GLG (110H1, 216H1)/MAT 235Y1/237Y1/PHY 110Y1/138Y1/PSY100H1/(201H1, 202H1)/(STA 220H1, BIO 225H1)/STA (220H1, 221H1)/STA 220H1, JBS 229H1)/STA (250H1, 255H1)/STA (257H1, 261H1)
- BIO 319H1, 323H1, 324H1; ZOO 362H1
- 3.5 courses from: ANT 436H1, BIO, BOT (except BOT 202Y1), ENV 234Y1, HMB 321H1, HPS 323H1, 333H1, JZP, ZOO (except ZOO 200Y1, 214Y1, 215H1, 216H1). Of the 3.5 courses, 0.5 must be from: BIO 301H1/302H1/303H1/305H1/306H1/307H1/308H1/469H1/ZOO 304H1/360H1/361H1, and one from: BIO 494Y1, 495Y1, 496Y1, ZOO 480Y1-496Y1 (BIO 494Y1 is recommended). BIO 321H1, 365H1, 370H1, 460H1, ZOO 462H1 are recommended for this program.

Zoology: see Biology

Ecology and Evolutionary Biology Courses

For Distribution Requirement purposes, all BIO and BOT courses, ENV 234Y1, and JMB 170Y1 are classified as SCIENCE courses (see page 25).

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/OAC Biology or equivalent. Students without high school Biology are advised to consult the Zoology Undergraduate Office.

BIO 225H1 Biostatistics for Biological Sciences 26L, 26P

This course presents biostatistics to students in the life sciences using biological examples where appropriate. Students will 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: ECO 220Y1/227Y1/GGR 270H1/PSY 202H1/SOC 300Y1/STA 221H1/250H1/JBS 229H1

Prerequisite: BIO 150Y1, STA 220H1

BIO301H1 Marine Biology TBA

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: BIO150Y1 and permission of instructor
Recommended preparation: Any 2nd year Ecology or Environmental Biology course

BIO302H1 Arctic Ecosystems TBA

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: BIO150Y1 and permission of instructor
Recommended preparation: At least one course in ecology

BIO303H1 Tropical Ecology and Evolution TBA

A field course to introduce students to the diversity of biological communities in the tropics focussing on ecological and evolutionary interactions. Plant and animal communities of tropical sites in the New World tropics are compared and contrasted with temperate communities. Students undertake small-scale research projects in the field. Lectures will be given on Friday afternoons prior to departure to the field.

Prerequisite: BIO150Y1 and any other life science course with a lab

BIO305H1 Experimental Ecology in Southern Ontario TBA

A field course offered at a Southern Ontario field station for approximately 2 weeks in the summer. Students learn the natural history of the region and conduct a mini thesis project in the field. Projects will focus on terrestrial plant ecology, plant-insect interactions and other topics selected by the students.

Prerequisite: BIO150Y1, any other Life Science course with a laboratory, and permission of instructor
Recommended preparation: a second or third-year ecology, evolution or environmental science course

BIO306H1 Inter-University Field Courses TBA

Inter-university selections from the offerings of the Ontario Universities Program in Field Biology. Courses, of 1 or 2 weeks duration at field sites from May through August, are announced each January. Consult Professor J.D. Rising, Zoology Department. Prerequisite: Varies by module. See Department of Zoology for details.

BIO 307H1 Alpine Ecosystems TBA

A field course at a Rocky 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 either catalogue the natural diversity or examine ecological interactions between organisms and their environment.

Prerequisite: BIO 150Y1, BOT 251Y1 or ZOO 252Y1, and permission of instructor

BIO308H1 Biodiversity and Ecology in Southeast Asia TBA

Offered in early or late summer for approximately two weeks. Students will 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
Recommended preparation: ZOO360H1/384H1/386H1/388H1

BIO 310H1 Crustacean Aquaculture in Thailand: Physiological and Molecular Approaches 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.

Prerequisite: BIO 250Y1, ZOO 252Y1

Life Sciences: Ecology and Evolutionary Biology

BIO319HI Population Ecology 26L, 39P

Distribution of species; population growth, regulation and declines; interactions within and among species; food webs. Basic ecological principles and applied issues discussed. Laboratory includes experiments, and computer simulations.. See www.zoo.utoronto.ca/bio319/index319.htm.

Exclusion: BIO320YI

Prerequisite: BIO150YI, JMB170YI/MAT135YI/136YI/137YI/157YI

Recommended preparation: a course in statistics

BIO321HI Community Ecology 26L, 39P

A comprehensive survey of community and ecosystem ecology emphasizing current developments and controversies. Field trips and computer exercises provide training in sampling, simulation, and data analysis.

Exclusion: BIO320YI

Prerequisite: BIO150YI and a course in statistics

Recommended preparation: ENV234YI

BIO323HI Evolution 26L, 13T

The principles of organic evolution. Evolutionary theory; the development of the theory of natural selection; population variation and polymorphism; levels of selection; introductory population genetics; the origin of species and higher taxa.

Exclusion: ZOO324YI

Prerequisite: BIO150YI

Recommended preparation: a course in statistics

BIO324HI Evolutionary Ecology 26L, 13T

Empirical and theoretical approaches to key areas of research including foraging, natural and sexual selection, and life histories. Other topics may include character displacement, and co-evolution.

Exclusion: ZOO324YI

Prerequisite: BIO323HI

BIO328HI Physiological Ecology 26L, 26T

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: BOT251YI/ZOO252YI or equivalent

BIO365HI Biodiversity and Conservation Biology 26L, 26T

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. Tutorials include computer labs and small group discussions of lecture topics.

Prerequisite: BIO150YI

Co-requisite: BIO319HI/321HI/323HI/324HI/ZOO322HI

BIO370HI Theoretical Ecology and Evolution 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: BIO470HI

Prerequisite: BIO150YI, JMB170YI/MAT135YI/137YI/157YI

400-Series Courses

Note

BIO482YI, 494YI, 495YI, 496YI, and ZOO485YI are courses that are advanced in level but are broader 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 faculty. Students can enrol in only one of these. However, students wishing to take an additional course should contact the Cell and Systems Biology, and Ecology and Evolutionary Biology Undergraduate Offices.

BIO428HI Global Change Ecology 39L

An examination of organism, population and ecosystem responses to long-term environmental change occurring at the global scale, with emphasis on human caused perturbation to climate and the carbon, nitrogen and hydrologic cycles and their ecological effects.

Prerequisite: 1.0 courses from BIO/BOT/ZOO at the 300+ level

Recommended preparation: ENV234YI

BIO440HI Ecology and Evolution of Plant-Animal Interactions 26L, 13T

This course delves into major concepts in ecology and evolution from the perspective of plant-animal interactions. We explore the richness of interactions between plants and animals, including antagonistic interactions (e.g. herbivory, carnivorous plants) and mutualistic interactions (e.g. seed dispersal and ant-plant associations). Interactions involving two to many species and across trophic levels are considered.

Prerequisite: BIO301HI/302HI/303HI/305HI/306HI/308HI/319HI/321HI/323HI/324HI/328HI or equivalent

BIO459HI Population Genetics 26L, 13T

Study of the genetics of evolutionary processes, with emphasis on the relationship between theory and experiment. Topics include natural selection, evolution of quantitative traits, genetic drift and neutral theory, population structure, genetics of adaptation, maintenance of genetic variation, and conservation genetics.

Prerequisite: BIO260HI/HMB265HI/ZOO323HI

Recommended preparation: JMB170YI/MAT135YI/136YI/137YI, STA220HI or equivalent

BIO460HI Molecular Evolution 26L, 13T

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, 260HI/HMB265HI

BIO463HI Evolutionary Genomics 26L, 26T

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: BIO460HI

BIO465HI Topics in Conservation Biology 39L

The principles and practices of conservation biology from both a global and Canadian perspective, including: biodiversity; endangerment; habitat loss and fragmentation; exploitation; exotic species; conservation genetics; metapopulations; demography; captive breeding; species concepts; reserve design; human issues; and the role of IUCN and COSEWIC.

Life Sciences: Ecology and Evolutionary Biology

Prerequisite: One of BIO319HI/321HI/323HI/324HI/365HI/
ZOO322HI plus one other course in behaviour, ecology,
evolution, or genetics

BIO 468HI Lectures in Limnology 26L

Basic ecological principles and applied issues of physical, chemical and biological (microbes, algae, plants, invertebrates, fish) interaction in lakes and streams. Same lectures as BIO 469HI, but no practical work. Major paper is expected to be equivalent to the field work required in BIO 469HI. See <http://www.zoo.utoronto.ca/bio469/>. (Offered in alternate years.)

Exclusion: BIO 368HI/469HI/469YI

Prerequisite: CHM (I38HI, I39HI)/I51YI, BIO 319HI/321HI/
ENV 234YI

BIO469HI Limnology 26L, TBA

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 may be collected. See <http://www.zoo.utoronto.ca/bio469/>. (Offered in alternate years.)

Exclusion: BIO368HI/468HI, 469YI

Prerequisite: CHM (I38HI, I39HI)/I51YI, ENV234YI/ BIO319HI/
321HI

BIO471HI Quantitative Ecology 26L, 39P

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. (Offered in alternate years)

Prerequisite: BIO319HI/321HI, statistics course

BIO494YI Seminar in Evolutionary Biology 78S

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: BIO323HI, 324HI; one of BIO319HI, 321HI,
ZOO322HI, cGPA 2.5

BIO495YI Seminar in Ecology 52S

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: BIO319HI/321HI, one of BIO 319HI/321HI/324HI/
365HI/ENV 234YI, cGPA 2.5

BIO496YI Seminar in Behaviour and Behavioural Ecology 52S

Topics may include: history of ethology, behavioural ecology including predator-prey interactions, mate choice and foraging, experimental psychology. Emphasis on student seminars and student led discussions of assigned topics.

Prerequisite: ZOO322HI.; BIO323HI/324HI//ZP326HI/PSY
362HI/369HI/ZOO362HI or a BIO or ZOO field course,
cGPA 2.5

domestication, genetic resource conservation, biological invasions, environmental pollution, global warming, genetic engineering and biotechnology. Evaluation of the social implications of advances in modern plant science.

Exclusion: All BIO courses except BIO100YI; all BOT and ZOO courses except ZOO200YI, if taken previously or at the same time.

This course is intended primarily for Humanities and Social Science students

BOT251YI Biology of Plants and Micro-organisms 52L, 39P

An introduction to the biology of plants, fungi and algae. Diversity of forms, reproductive patterns, structure and physiology are emphasized. Laboratories demonstrate major species groups and the relationship between structure and function of plants.

Prerequisite: BIO150YI

BOT299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

BOT300HI Systematic Botany 26L, 39P

The theoretical foundations of taxonomy and the types of evidence used in constructing plant classifications. Practicals emphasize taxonomic characters and their uses. Includes an independent taxonomic project.

Prerequisite: BIO150YI

Recommended preparation: BOT307HI

BOT301HI Introduction to the Fungi 26L, 39P

Systematics, ecology, physiology, and genetics. Role in the environment and importance to man. Techniques of isolation, identification, and manipulation.

Prerequisite: BIO150YI

Recommended preparation: BOT251YI

BOT304HI Field Botany TBA

A 2-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 garden 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

Recommended preparation: BOT300HI, BOT307HI

BOT307HI Families of Vascular Plants 26L, 39P

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: BIO150YI

BOT310HI Comparative Plant Morphology 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: BIO150YI

BOT341HI Plant Anatomy 26L, 39P

The microscopic structure of plants with emphasis on the characteristics of cells and tissues, how they are formed from plant

BOT202YI Plants and Society 52L

The continuing impact of new scientific technologies on society through changes in agriculture, industry and the economy. Plant

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meristems and how they function in transport, photosynthesis, transpiration, absorption, and reproduction.

Prerequisite: BOT251Y1

BOT398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

BOT404HI Biology of Moulds 26L, 39P

The biology and identification of microscopic fungi. The physiological and structural characteristics of moulds that allow them to locate, occupy and consume nutrient substrates in the face of environmental stresses and competition from other organisms. Techniques for assessing mould activities in natural and human environments.

Prerequisite: BOT251Y1/301HI/permission of instructor

BOT460YI/ Project in Botany 461HI TBA

A research project, requiring the prior consent of a member of the Department to supervise the project. The topic is to be agreed on by the student and supervisor before enrolment in the course; they must also arrange the time, place, and provision of any materials. Written and oral reports are required. Normally open only to fourth-year students with adequate background in Botany. Exclusion: If BOT460YI is taken then BOT461HI may not be taken for credit

Prerequisite: Permission of Department

MGY460HI Plant Molecular Genetics

See "Molecular Genetics and Molecular Biology"

BOT462YI/ Advanced Topics in Botany 463HI TBA

Selected research/lecture topics in plant sciences offered to advanced students. Students completing a second research project may not be supervised by their BOT460YI/461HI faculty sponsor. Exclusion: If BOT462YI is taken then BOT463HI may not be taken for credit

Prerequisite: Permission of instructor

ENV234Y1 Environmental Biology

See "Centre for Environment"

JBS229HI Statistics for Biologists 39L, 13T

Continuation of STA220HI, jointly taught by Statistics and Biology faculty, emphasizing methods and case studies relevant to biologists including experimental design and ANOVA, regression models, categorical and non-parametric methods.

Exclusion: ECO220Y1/227Y1/PSY201HI/SOC201Y1/STA221HI/222Y1/242Y1/250HI/255HI/257HI

Prerequisite: STA220HI

JBS229HI does not count as a distribution requirement course.

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; and chaos. This course is intended for students in the life sciences.

Co-requisite: BIO150Y1

JZP326HI Biological Rhythms 26L, 13T

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 adaptive value of rhythms to animals. (Given by the Departments of Psychology and Zoology)

Prerequisite: BIO150Y1/PSY100HI; one full or two 200-series half-courses in the Sciences

JZP428HI Advanced Topics in Biological Rhythms 26S

Circadian rhythms with emphasis on non-photic entrainment and phase shifting of rhythms by behaviour (e.g., social interactions, or becoming active). Properties and physiological mechanisms for non-photic effects and comparisons with those for photic effects. Seminars and readings of original papers. Emphasis on basic principles, but possible applications are also discussed. (Given by the Departments of Psychology and Zoology)

Prerequisite: JZP326HI

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 45.

ZOO214Y1 Evolution and Adaptation 52L, 26T

Organic evolution by natural selection, both as formulated by Darwin and Wallace and modified by modern workers: topics vary but may include speciation; evolution of development; evolution of higher taxa, mutation, natural selection, adaptations and coevolution. Essays and reading required.

Exclusion: BIO150Y1/323HI/ZOO324Y1

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

ZOO 215HI Conservation Biology 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: BIO 365HI

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

ZOO 216HI Marine Mammal Biology 26L, 12T and Conservation

This course introduces students to anatomical and physiological adaptations of marine mammals and how they differ based on their own unique needs. The effects of various environmental stressors will also be covered. Anatomical models will be provided (skulls, teeth, etc.), supplemented with video and other teaching tools. This course counts as a Science Distribution Requirement for students in all years and disciplines; particularly suitable for Humanities and Social Science students.

Prerequisite: Biology 12/OAC Biology or equivalent

ZOO263Y1 Comparative Anatomy 26L, 78P, 26T

The ontogeny and phylogeny of vertebrate structure are considered within the context of evolutionary theory. Functional

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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: BIO150Y1

ZOO265Y1 Animal Diversity 52L, 78P
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. Laboratories emphasize recognition of major groups, and use living organisms when possible, but involve no invasive procedures.
Prerequisite: BIO150Y1

ZOO299Y1 Research Opportunity Program
Credit course for supervised participation in faculty research project. See page 45 for details.

ZOO304HI Field Ornithology TBA
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

ZOO322HI Behaviour and Behavioural Ecology 26L, 39P
A broad introduction to animal behaviour emphasizing concepts from ethology and behavioural ecology. Field and laboratory studies are undertaken.
Prerequisite: BIO150Y1, PSY 201HI/STA 220HI/250HI/257HI

ZOO354Y1 History of Biology 52L, 26T
The historical evolution of modern biological science, focussing on the development of its methodology and its unifying theories, from Aristotle to DNA.
Exclusion: HPS323HI, 333HI
Prerequisite: BIO150Y1, a course in BIO/BOT/HPS/MPL/ZOO

ZOO356HI Insect Biology 26L, 18P
Lectures provide an introduction to the morphology, physiology, development, behaviour, evolutionary history and biological significance of insects. Labs will include demonstrations and multimedia to complement lectures and student presentations. An activity fee may be collected. (Offered in alternate years)
Exclusion: ZOO 360HI
Prerequisite: BIO 150Y1

ZOO360HI Entomology 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 end of summer preceding Fall session. ZOO 360HI can be used to fulfil a program's field course requirement. (Offered in alternate years)
Exclusion: ZOO 356HI
Prerequisite: BIO 150Y1

ZOO361HI Field Entomology 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. Includes intensive field work.
Prerequisite: ZOO 356HI/360HI, and permission of instructor.

ZOO362HI Introduction to Macroevolution 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, coevolution, community evolution, and the role of evolutionary information in conservation and biodiversity initiatives. Tutorials emphasize methods used to reconstruct phylogenetic relationships.
Prerequisite: BIO150Y1

ZOO375HI Environmental Factors 39L
A lecture and seminar course dealing with the effects of physical and chemical environments on animals.
Prerequisite: BIO150Y1
Recommended preparation: ZOO252Y1, BIO319HI/321HI/ENV234Y1

ZOO384HI Biology of Amphibians 13L, 39P
Introduction to the natural history, evolution, and diversity of amphibians. (Offered in alternate years)
Prerequisite: ZOO263Y1
Recommended preparation: BIO323HI/ZOO362HI

ZOO386HI Avian Biology 13L, 39P
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: BIO150Y1
Recommended preparation: An additional course in evolution, ecology or behaviour

ZOO388HI Biology of Mammals 13L, 39P
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. Laboratory includes a survey of Ontario mammals. (Offered in alternate years)
Prerequisite: BIO323HI/ZOO252Y1/322HI

ZOO389HI Mammalian Diversity 13L, 39P
The origin, evolution, zoogeography, phylogenetic relationships and diversity of mammals; speciation, extinction and current issues in conservation biology. Laboratory surveys mammalian orders, their characteristics, identification, and systematic relationships. (Offered in alternate years)
Prerequisite: BIO323HI/ZOO362HI

ZOO398H0/ Independent Experiential Study Project 399Y0
An instructor-supervised group project in an off-campus setting. See page 45 for details.

400-Series Courses

Note

BIO 482Y1, 494Y1, 495Y1, 496Y1, and ZOO 485Y1 are courses that are advanced in level but are broader 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 faculty. Students can enrol in only one of these. However, students wishing to take an

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additional course should contact the Cell and Systems Biology, and Ecology and Evolutionary Biology Undergraduate Offices.

ZOO462H1 Advanced Applications of 13L, 39P
Phylogenetic Systematics

Computer-assisted methods for constructing and testing phylogenetic hypotheses are introduced through lectures and laboratories. Molecular, biochemical, and morphological data are compared and contrasted as indicators of relationships. Character coding, parsimony, compatibility, and congruence are discussed. Students prepare a comprehensive term paper based on analysis of individual data sets. (Offered in alternate years)

Prerequisite: ZOO362H1

Recommended preparation: Basic PC literacy

ZOO498Y1 Project in Zoology I 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 Zoology. 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.

ZOO499Y1 Project in Zoology II TBA

Allows students to do a second independent project, supervision of which must be different from ZOO498Y1. Operates in the same manner as ZOO498Y1.

Prerequisites: ZOO498Y1

Life Sciences: Human Biology

Collaborative program of the Faculty of Arts & Science and the Faculty of Medicine

Faculty

Professor and Program Director

J.J.B. Smith, MA, Ph D

Professor and Associate Program Director

J. Hay, MSc, 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, and consists of three Specialist programs and one Major program leading to an Honours B.Sc. degree. The goal of each program is to provide a multi-disciplinary education focused on an area of biological science relevant to humans. Each program emphasizes courses from the life sciences, but includes social sciences and humanities. The Specialist programs are: Genes, Genetics and Biotechnology; Global Health; Health and Disease; and Human Behavioural Biology. Each program will allow students to study an area in depth while maintaining flexibility of course selection.

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. But 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. Students will receive a solid foundation in life science courses together with insights from the humanities and social sciences. The programs are intended to provide a broad education rather than an intensive focus in a specific discipline.

Graduates will be equipped to pursue further study in areas such as health sciences, biotechnology, law, education, and administration, and will have a broad range of skills to take with them into the job market (check our web site at <http://www.hmb.utoronto.ca> for more career paths).

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. 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 for Human Behavioural Biology is similar in requiring biology and chemistry, but students will need introductory courses in calculus and psychology for this program. 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.

In both the Genes, Genetics and Biotechnology and the Health and Disease programs, the choice of anthropology, psychology or sociology courses in the first year should be influenced by which of these areas students want to pick courses from in the upper years.

Each of the four programs has core half-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 at the 300 level; 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 include a Life Science 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 Program Office, New College, 300 Huron Street (416) 946-5393 or e-mail us at human.biology@utoronto.ca.

Human Biology Programs

Genes, Genetics and Biotechnology (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. MAT 135Y1/136Y1/137Y1/157Y1/PHY110Y1/138Y1/140Y1
4. 1.0 FCE from: ANT 100Y1; ECO100Y1; GGR107Y1; GGR124Y1; PHL100Y1/PHL102Y1; PSY 100H1; SOC 101Y1; VIC170Y1/171Y1

Second Year:

1. HMB 201H1, 265H1/BIO 260H1; BCH 210H1; BIO 250Y1; CHM 247H1
2. 1.0 FCE from: ANT 203Y1, 204Y1; ENV 222Y1/236Y1; 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 301HI, 321HI; BIO 349HI
2. 0.5 FCE science laboratory from: HMB 311HI; BCH 370HI; BOT 350HI; MGY 376HI; PSL372HI; ZOO 330HI
3. 2.0 FCE from the sciences: ANA301HI; BIO 351YI/352HI; BCH 300 series (see Note 1 below); BOT 310HI/340HI/341HI/351HI; IMM 334YI; JZP 326HI; LMP 301HI, 363HI; MGY 377HI, 378HI; NFS 284HI, 386HI; PCL 201HI, 302HI; PSL 302YI; ZOO 323HI, 324HI, 325HI, 327HI, 328HI, 329HI, 331HI, 332HI, 345HI, 347HI, 357HI
4. 1.0 FCE from a Bio-Social or Social perspective: ANT 300-series; GGR 314HI, 331HI, 333HI, 334HI, 335HI, 338HI, 393HI; HPS 318HI, 319HI, 323HI, 324HI, 326HI, 328HI, 333HI, 350HI; WGS 365HI, 366HI, 367HI, 368HI, 372HI, 373HI; PHL 341HI, 342, 344HI, 345HI, 347HI, 349HI, 381HI, 383HI, 384HI; SOC 303HI, 306YI, 309YI, 312YI, 317YI, 320YI, 327YI, 339HI, 344YI, 347HI, 355YI, 356YI, 363HI, 365YI, 366HI, 369YI, 370YI, 373HI, 374HI, 375YI, 381YI, 382YI, 385YI, 386YI, 388HI
5. 1.0 FCE from a 400-level science series (see Note 3. below): HMB 421HI, 435HI; BCH 400-series (see Note 1 below); BIO 458HI, 459HI, 460HI, 461HI, 463HI, 472HI 482YI; BOT 421HI, 452HI, 458HI; LMP 400-series; MGY 400 Series (see Note 2 below); NFS 400-series; PCL477HI; PSL 400-series; ZOO 426HI, 429HI, 430HI, 443HI
6. 1.0 FCE from a Science, Bio-social or Social Perspective (see Note 3 below): ANT 428HI, 429HI, 433HI, 448HI, 450HI; GGR 415HI, 416HI, 439HI, 450HI; PHL 407HI, 470HI, 475HI, 482HI, 483HI; JFG 475HI; NEW 425YI, 465HI; HMB 420HI, 421HI, 435HI, 438HI, 498YI, 499YI; BCH 400-series (see Note 1 below); BIO 459HI, 460HI, 461HI, 472HI 482YI; BOT 421HI, 452HI, 458HI; LMP 400-series; MGY 400 Series (see Note 2 below); PHC 400 Series; PSL 400-series; ZOO 426HI, 443HI

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 150YI
2. 1.0 FCE from: CHM 138HI, 139HI/MAT135YI/136YI/137YI/157YI /PHY110YI/138YI/140YI
3. 1.0 FCE from: ANT 100YI/ GGR 100YI/GGR107YI/ GGR124YI
4. 0.5 to 1.0 FCE from: PHL100YI/ PSY 100HI/ SOC 101YI/ TRN150Y/TRN151Y/VIC170YI/171YI/ NEW150Y/ POLI05Y/POLI08Y

Second Year:

1. HMB 203HI, BIO 250YI, STA220HI,
2. 1.0 FCE from Environment or Resource Management: ENV 200YI, 222YI; FOR201HI; GGR 201HI/203HI/206HI/233YI; JEG 221YI; ZOO215HI
3. 1.0 FCE from Social, Cultural or Political Science: ANT 204YI; GGR 220YI/256HI; WGS 261YI; PHL 273HI/275HI/281YI; POL 201YI/208YI; PSY 220HI; SOC205YI/210YI/214YI /242YI/246HI/247HI

Second Year and Higher Years:

1. 1.0 FCE from Biological Sciences: ANT 203YI/BOT252YI/ HMB265HI/ ENV 234YI/ ENV236YI/ ZOO252YI/ ZOO263YI/ZOO265YI/BCH 210HI/PSL302YI / STA221HI /JBS229HI
2. HMB303HI
3. 0.5 FCE in Laboratory Sciences: HMB312HI, BCH 370HI, MGY 376HI, PSL 372HI, ZOO 330HI.
4. 1.0 FCE from Basic Medical Sciences: LMP363HI/ NFS284HI/MGY377HI/388HI/ BIO351YI
5. 1.0 FCE from Ecology/Evolution: BIO319HI/321HI/323HI/324HI/328HI/349HI/365HI/ZO0357HI/362HI/375HI
6. 1.0 FCE from Environmental Issues: GGR 303HI/305HI/307HI/312HI/314HI/ENV321HI/ FOR302HI/303HI
7. 1.0 FCE from Social Sciences or Humanities: ANT 342HI/348YI/349HI/364YI, ENV 350HI; GGR 334HI/338HI/393HI; INI 320YI, 332HI, 341HI, 335HI; JIE 307YI; WGS 367HI, 372HI; PHL 373HI/380HI/381HI/382HI/383HI/384HI, POL 301YI/317YI/343YI/346HI/350HI; PSY 333HI, 335HI; SOC 309YI/312YI/327YI/381YI
8. 1.0 FCE from 400 Science/Env/Eco series; HMB 420HI, 438HI; BOT 452HI, 458HI; BIO 428HI/440HI/459HI /465HI/469HI/471HI/495YI; GGR 403HI, 409HI; LMP 402HI, 406HI, 436HI; MGY 434HI, 440HI, 485HI; NFS 486HI, 487HI, 490HI; PSL 420HI, 421HI, 470HI, 472HI; ZOO 433HI, 462HI
9. 1.0 FCE from 400 Soc/Hum/Proj series: HMB 420HI, 438HI, 498YI, 499YI; ANT 427HI, 440YI, 448HI, 450HI, 452HI, 455YI; ENV 423HI, 441HI; GGR 415HI, 418HI, 439HI, 450HI, 451HI, JFG 475HI; INI 422HI, 446HI, NEW 425YI, 465HI; POL 401HI, 412YI, 417YI, 418YI; PHL 415HI, 447YI, 470HI, 482HI; TRN 410YI/411YI/419YI/421YI, UNI 410HI, 464HI

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 150YI; CHM 138HI, 139HI; MAT 135YI/136YI/137YI/157YI/PHY 110YI/138YI/140YI
2. 1.0 FCE from: ANT 100YI; GGR107YI; GGR124YI; PHL100YI/PHL102YI; PSY 100HI; SOC 101YI; VIC 170YI/171YI

Second Year:

1. HMB 202HI, 265HI; BCH 210HI; BIO 250YI; CHM 247HI
2. 1.0 FCE from: ANT 203YI, 204YI; ENV 222YI/236YI; GGR 220YI/233YI/246HI/256HI/270HI; WGS 261YI; PHL 240HI/245HI/237HI/255HI/275HI//281YI; SOC 205YI/207YI/210YI/212YI/213YI/214YI/220YI/242YI/246HI/247HI/260YI/263HI

Higher Years:

1. HMB 302HI; BIO 349HI; MGY 377HI, 378HI; PSL 302YI
2. 0.5 FCE science laboratory from: HMB 312HI; BCH 370HI; MGY 376HI; PSL 372HI; ZOO 330HI
3. 0.5 FCE from the sciences: ANA 300YI, 301HI, 304YI; BIO 351YI; BOT 251YI/301HI/310HI/340HI/341HI/351HI; BCH 300-series (see Note 1 below); IMM 334YI; JZM

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- 357HI, 358HI; JZP 326HI; LMP 301HI, 363HI; NFS 284HI, 386HI; PCL 201HI, 302HI, 362HI; PSL 303YI; ZOO 252YI, 325HI, 327HI, 328HI, 329HI, 331HI, 332HI, 345HI, 346HI, 347HI, 357HI
- 1.0 FCE from a Bio-Social or Social perspective: ANT300-series; GGR 314HI, 331HI, 333HI, 334HI, 335HI, 338HI, 393HI; HPS 318HI, 319HI, 323HI, 324HI, 326HI, 328HI, 333HI, 350HI; WGS 365HI, 366HI, 367HI, 368HI, 372HI, 373HI; PHL 341HI, 342, 344HI, 345HI, 347HI, 349HI, 381HI, 383HI, 384HI; SOC 303HI, 306YI, 309YI, 312YI, 317YI, 320YI, 327YI, 339HI, 344YI, 347HI, 355YI, 356YI, 363HI, 365YI, 366HI, 369YI, 370YI, 373HI, 374HI, 375YI, 381YI, 382YI, 385YI, 386YI, 388HI
 - 1.0 FCE from a 400-level science series (see Note 3. below): HMB 422HI, 432HI, 435HI; BCH 400-series (See Note 1. below); BIO 458HI, 460HI, 461HI, 463HI, 472HI, 482YI; BOT 404HI, 405HI, 452HI; IMM 429HI, 430HI, 435HI; JBI 428HI; JZP 428HI; LMP 400-series; MGY 400-series; NFS 400-series; PCL 470YI, 471YI, 473YI, 475YI, 477HI, 481HI; PSL 400-series; ZOO 426HI, 429HI, 430HI, 443HI
 - 1.0 FCE from a Science, Bio-social or Social Perspective (see Note 3. below): ANT 428HI, 429HI, 433HI, 434HI, 440YI, 448HI, 449HI, 450HI; GGR 415HI, 416HI, 439HI, 450HI; PHL 407HI, 470HI, 475HI, 482HI, 483HI; JFG 475HI; NEW 425YI, 465HI; BCH 400-series (See Note 1. below); BIO 460HI, 461HI, 472HI, 482YI; BOT 404HI, 405HI, 452HI; HMB 420HI, 422HI, 432HI, 435HI, 438HI, 498YI, 499YI; IMM 429HI, 430HI, 435HI; JBI 428HI; JZP 428HI; LMP 400-series; MGY 400-series; NFS 484HI, 486HI, 488HI, 490HI; PCL 470YI, 471YI, 473YI, 475YI, 481HI; PHC 400 Series; PSL 400-series; ZOO 426HI, 443HI

Human Behavioural Biology (Science program)

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 150YI
2. CHM 138HI, 139HI
3. MAT 135YI/136YI/137YI/157YI
4. PSY 100HI

Second Year:

1. HMB 200HI; BCH 210HI/CHM247HI; BIO 250YI; STA 220HI/PSY 201HI
2. 1.0 FCE from: ANT 203YI, 204YI; ENV 222YI/236YI; JAL 253HI, 254HI; WGS 261YI; PHL 281YI
3. 1.5 FCE from: JAL 253HI/254HI/NRS 201HI/PSY202HI/210HI/220HI/230HI/240HI/260HI/270HI/280HI/290HI, STA 221HI

Higher Years:

1. HMB 300HI
2. 0.5 FCE science laboratory from: HMB 310HI; PSL 372HI; PSY 319HI, 369HI, 379HI, 389HI, 399HI
3. 0.5 FCE in Genetics/Evolution from: HMB265HI; PSY 390HI; ZOO 322HI, 323HI, 324HI, 362HI, 366HI, 367HI
4. 1.5 FCE in Behavioural Systems from: JZP 326HI; PSL 201YI, 302YI; PSY 375HI, 378HI, 392HI, 393HI, 394HI, 396HI; ZOO 252YI, 332HI, 333HI, 347HI

5. 1.5 FCE from a Bio-Social or Social perspective: ANT 300-series; ENV 321YI; JAL 355YI, 356HI; JLP 315HI, 374HI; JPA305HI; WGS 372HI; PHL 341HI, 342HI, 351HI, 381HI, 382HI, 383HI; any PSY 300-series course
6. 1.0 FCE from a 400-level science series (see Note 3. below): BIO 472HI, 494YI, 496YI; HMB 420HI, 435HI, 438HI; JZP 428HI; LMP 400-series; PCL 475YI; PSL 400-series; PSY 401HI/402HI/409HI/420HI/490HI; ZOO 443HI/462HI/485YI
7. 1.0 FCE from a Science, Bio-social or Social perspective (see Note 3. below): ANT 425HI, 427HI, 428HI, 429HI, 433HI, 434HI, 440YI, 441HI; JLP 471HI; JLS 474HI; PHL 407HI, 451HI, 475HI, 481HI, 482HI, 483HI; BIO 494YI, 496YI; HMB 420HI, 435HI, 438HI, 498YI, 499YI; JZP 428HI; PSL 420HI, 421HI, 440YI, 441HI, 460HI, 472HI; PSY 401HI/402HI/409HI/420HI/490HI; ZOO 443HI/462HI/485YI

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 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.

Life Science (Science program)

Major program:

(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. 1.0 FCE from: JMB 170YI; MAT 135YI/137YI/157YI; PHY 110YI/138YI/140YI; PSY100HI; VIC 170YI/171YI

Second Year:

HMB265HI; BCH 210HI; BIO 250YI

Third Year:

1. 1.0 FCE from: BOT 251YI; PSL 302YI; ZOO 252YI
2. 1.0 300+level FCE from: BIO, BOT, HMB, PSY, ZOO
3. 1.0 300+level FCE from: ANA, BCH, HMB, IMM, LMP, MGY, NFS, NRS, PCL, PSL (see note below)

NOTE: Courses listed in above may require prerequisites; please check course listings

Human Biology Courses

See page 31 for Key to Course Descriptions..

For Distribution Requirement purposes, all HMB courses are classified as SCIENCE courses, with the exception of HMB303HI and HMB498YI, which are classified as HUMANITIES or SOCIAL SCIENCE courses (see page 25).

HMB200HI Introductory Human Behavioural Biology 26L, 13T

An introductory course in Human Behavioural biology covering topics and concepts from behavioural genetics and evolutionary psychology.

Prerequisite: BIO150YI, PSY100HI

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: BIO150Y1

Co-requisite: BIO250Y1

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 are necessary for understanding the dynamic nexus of human health and disease.

Prerequisite: BIO150Y1

HMB203HI Introduction to Global Health 26L, 13T

An introductory course in Global Health covering the theories, operational components and strategies of implementing primary health care in developing countries. Discussed are topics such as health education, control of vector borne diseases, provision of essential drugs, maternal and child health and nutrition and how they incorporate alternative and complementary technologies, community participation and the deployment of paraprofessional health service providers.

Prerequisite: BIO150Y1

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: BIO150Y1

Co-requisite: BIO250Y1

HMB300HI Human Behavioural Biology II 26L, 13T

Intermediate course for the Specialist program in Human Behavioural Biology. Consult web page for more information: <http://hmb.utoronto.ca/hmb300h>.

Prerequisite: HMB200HI

HMB301HI Biotechnology 26L, 13T

Intermediate course in biotechnology; topics vary but include the use of vectors, and biochemical pathways in biotechnology.

Prerequisite: HMB201HI

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

HMB303H 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.

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

HMB310HI Laboratory in Human Behavioural Biology 26L, 39P

A laboratory course based on current research techniques for students in the Specialist program in Human Behavioural Biology. Lab topics include brain anatomy and imaging, immunocytochemistry, startle reflex analysis, human neuropsychology, animal behaviour, and behavioural profiling.

Exclusion: PSY399HI, NRS302HI

Co-requisite: HMB300HI

HMB311HI Laboratory in Genes, Genetics, and Biotechnology 26L, 39P

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.

Co-requisite: HMB301HI

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.

Prerequisite: HMB202HI, HMB302HI

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: BIO260HI/ HMB265HI

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: HMB300HI

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: HMB301HI

Life Sciences: Human Biology

HMB422HI Seminar in Health and Disease 26S

Lecture and seminar course underlining current medical research related to human disease. Topics vary yearly

Prerequisite: HMB202HI, 302HI

HMB432HI Topics in Histology and Histopathology 26S

Lecture and seminar course emphasizing current research and expand on the topics covered in HMB302H. 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

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

HMB498Y Research Project in Health and Human Rights 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 Program office from which application forms may be obtained.

Prerequisite: 15 full course equivalents and permission of coordinator.

Recommended prerequisite: HMB203HI, HMB303HI

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 Program office from which application forms may be obtained.

Prerequisite: An approved 300+ series science laboratory course

Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

Faculty

Professor Emeritus

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

B.H. Barber, M Sc, Ph D (Adjunct)
N. Berinstein, MD
J. Danska, AB, Ph D
H.M. Dosch, MD
E. Fish, M Sc Ph D
R.M. Gorczynski, Ph D, MD
C. Guidos, B Sc, Ph D
J.B. Hay, M Sc, Ph D
N. Hozumi, Ph D, MD (Adjunct)
R.D. Inman, BA, MD
N.N. Iscove, Ph D, MD
D.E. Isenman, B Sc, Ph D
M.H. Julius, B Sc, Ph D
E.C. Keystone, B Sc, Ph D
M.V. Letarte, B Sc, Ph D
G. Levy, B Sc, MD, FRCP
R.G. Miller, M Sc, Ph D
P.S. Ohashi, B Sc, Ph D
C.A. Ottaway, Ph D, MD, LMCC, FRCP
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
E. Silverman, MD
K. Siminovitsh, MD, FRCP, ABIM
T.H. Watts, B Sc, Ph D
D. Williams, M Sc, Ph D
G.E. Wu, M Sc, Ph D (Adjunct)
L. Zhang, MD, Ph D
J.C. Zúñiga-Pflücker, B Sc, Ph D

Associate Professors

S. Berger, M Sc, Ph D
J.W. Chamberlain, M Sc, Ph D
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)

Senior Lecturer

D. Filipp, M Sc, Ph D

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 microorganisms, 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. J. Hay

Enquiries:
Department of Immunology, Room 5271, Medical Sciences
Building (416-978-8360)

More information is available on our website:
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, LMP, MGY, or ZOO

Immunology Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all IMM courses are
classified as SCIENCE courses (see page 25).

IMM299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research
project. See page 45 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.

Life Sciences: Laboratory Medicine and Pathobiology

Given by Members of the Faculty of Medicine

Faculty

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. Grynbas, Ph D
J.B. Hay, Ph D
A. Hinek, 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
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. Thorner, MD, Ph D
M.S. Tsao, MD
D. Westaway, Ph D
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
H.P. Elsholtz, Ph D
P. Hamel, Ph D
G. Hannigan, Ph D
D.M. Irwin, Ph D

T. Mazzuli, MD
M. McGavin, Ph D
J. McLaurin, PhD
J.O. Minta, 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
G. Denomme, Ph D
S. Der, Ph D
D. Hwang, Ph D, MD
C. McKerlie, DVM, DV Sc
J. Mogridge, Ph D
M. Ohh, 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

Course Coordinators:

LMP300Y1: Dr. D.M. Templeton (416-978-3972)
LMP301H1: Dr. A. Vandenbroucke (416-360-4000 ext. 2150)
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. D. Westaway (416-978-1556)
Dr. J. McLaurin (416-978-1035)
LMP436HI: Dr. R. Bishop (416-946-7103)

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,
436HI

Laboratory Medicine and Pathobiology Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all LMP courses are classified as SCIENCE courses (see page 25).

LMP299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 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

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/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

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/310HI, 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.

LMP410HI Pathobiology of Neurodegenerative Disease 26L

Molecular basis of neurodegenerative diseases of the central and peripheral nervous systems. Relevant neuroanatomy and

Life Sciences: Laboratory Medicine and Pathobiology

molecular biology of the CNS. Current research topics in neurodegenerative diseases.

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, IMM334YI/MGY377HI

Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

Faculty

Professors

B. J. Andrews, Ph D
I. Andrulis, 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
C.J. Ingles, Ph D
H. M. Krause, Ph D
H. D. Lipshitz, Ph D
P. McCourt, Ph D
A. Nagy, Ph D
P.N. Ray, Ph D
B.H. Robinson, Ph D
J. M. Rommens, Ph D
J.M. Segall, Ph D
M. D. Tyers, Ph D
J. Wrana, Ph D

Associate Professors

T. Berleth, Ph D
B.J. Blencowe, Ph D
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
S. Cutler, Ph D
D. Durocher, Ph D
T. Hughes, Ph D
B. D. Lavoie, Ph D
P.J. Roy, Ph D
C.S. Taylor, 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)

Undergraduate Office/General Inquiries: Medical Sciences Building Rm 4396 (416-978-8359; email: undergrad.medgen@utoronto.ca)

More information is available on our website: <http://www.utoronto.ca/medicalgenetics/>

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.

Life Sciences: Molecular Genetics and Microbiology

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:
MGY425HI, MGY428HI, MGY451HI, MGY452HI,
MGY460HI, MGY470HI
3. Up to 1.0 full-course equivalent may be taken from list 2:
BCH422HI, 440HI, 441HI; BIO461HI, 472HI; HPS333HI;
MGY434HI, 440HI, 445HI, 480Y1; ZOO328HI

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:
LMP 402HI, 436HI; MGY 420HI, 428HI, 434HI, 440HI,
445HI, 485HI
3. Up to 1.0 full-course equivalent may be taken from list 2:
BCH 304HI, 335HI, 340HI, 422HI, 426HI, 435HI, 441HI,
BIO472HI, BOT 404HI, 405HI, 452Y1, IMM 430HI, JBI
428HI, LMP 403HI, MGY 425HI, 451HI, 452HI, 460HI,
470HI, 480Y1, ZOO 357HI

Molecular Genetics and Microbiology Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all MGY courses are
classified as SCIENCE courses (see page 25).

MGY299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research
project. See page 45 for details.

MGY311Y1 Molecular Biology 78L (formerly MGB311Y1)

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: BIO349HI, JBC372H5(UTM), MGB311Y1, PSL350HI
Prerequisite: BIO250Y1, BCH242Y1

MGY312HI Principles of Genetic Analysis 78P (formerly MGB312HI)

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 (formerly MBY376HI)

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: MBY376HI

Prerequisite: BIO250Y1, BIO 260HI/HMB 265HI

Co-requisite: MGY377HI, MGY378HI

MGY377HI Microbiology I: Bacteria 39L (formerly MBY377HI)

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: MBY375Y1, MBY377HI

Prerequisite: BCH210HI/BCH242Y1; BIO250Y1

MGY378HI Microbiology II: Viruses 39L (formerly MBY378HI)

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, MBY375Y1, MBY378HI

Prerequisite: BCH210HI/BCH242Y1; BIO250Y1; BIO 260HI/
HMB 265HI

Co-requisite: BIO349HI/MGY311Y1

Recommended preparation: MGY377HI

MGY420HI Regulation of Gene Expression 26L (formerly MGB420HI)

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, MGB311Y1/MGY311Y1

MGY425HI Signal Transduction and Cell Cycle Regulation 26L (formerly MGB425HI)

This course presents and integrates molecular aspects of signal
transduction and cell cycle regulation in eukaryotic cells from
yeast to humans. Emphasis is on recent advances in growth
factor receptor signalling, modular protein domains, and the
recurrent role of protein phosphorylation and protein-protein
interactions in cell regulation.

Life Sciences: Molecular Genetics and Microbiology

Exclusion: MGB425HI

Prerequisite: BCH242YI, MGB311YI/MGY311YI

MGY428HI Functional and Microbial 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: MBY428HI

Prerequisites: BCH210HI/BCH242YI; BIO260HI/HMB265HI; MGY311YI/BIO349HI

MGY432HI Laboratory in Molecular Genetics and Microbiology 78P

Laboratory experiments demonstrating basic and advanced molecular biological methods applied to molecular genetics and microbiology.

Exclusion: MGB430HI, MBY450HI, ZOO330HI

Prerequisite: MGY312HI/MGY376HI

Note: MGY432HI will fulfill the course requirement for the former MGB430HI or MBY450HI

MGY434HI Bacterial Signalling and Physiological Regulation (formerly MBY434HI) 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: MBY434HI

Prerequisite: BCH210HI/BCH242YI, MBY377HI/MGY377HI, BIO349HI/MGB311YI/MGY311YI

MGY440HI Molecular Virology (formerly MBY440HI) 39L

Analysis of virus/host interactions at the molecular level.

Course material is based on recent research publications.

Exclusion: MBY440HI

Prerequisite: BCH210HI/BCH242YI; BIO349HI/MGB311YI/MGY311YI; MBY378HI/MGY378HI. (Note: BIO 351YI is not an acceptable equivalent to MGY378HI)

Recommended preparation: IMM334YI/IMM335YI

MGY445HI Genetic Engineering for Prevention and Treatment of Disease (formerly MBY445HI) 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: MBY445HI

Prerequisite: MBY378HI/MGY378HI/MGB311YI/MGY311YI

MGY451HI Genetic Analysis of Development: Yeast and Worms (formerly MGB451HI) 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: MGB451HI

Prerequisite: BIO260HI, MGB311YI/MGY311YI/BIO349HI

MGY452HI Genetic Analysis of Development: Flies and Mice (formerly MGB452HI) 26L

This is a companion course to MGY451HI. 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: MGB452HI

Prerequisite: BIO260HI, MGB311YI/MGY311YI/BIO349HI

Recommended preparation: MGY451HI or equivalent

MGY460HI Plant Molecular Genetics (formerly MGB460HI) 26L

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: MGB460HI

Prerequisite: BCH321YI/MGB311YI/MGY311YI/BIO349HI or permission of instructor

MGY470HI Human and Molecular Genetics (formerly MGB470HI) 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: MGB470HI

Prerequisite: MGB311YI/MGY311YI

MGY480YI Special Project (formerly MGB480YI/MBY422YI) TBA

An opportunity for specialized individual research in molecular genetics and microbiology by arrangement with the course coordinator.

Exclusion: MGB480YI, MBY422YI

Prerequisite: BCH371HI/MGY312HI/MGY376HI, MGY311YI

MGY485HI Vaccines and Vaccination (formerly MBY480HI) 39L

Analysis of infectious disease vaccines; past, present and future, with an emphasis on molecular aspects. Special topics include: molecular basis of pathogenicity; vaccination strategies; genetically engineered vaccines; DNA vaccines; modulation of the immune response by vaccine adjuvants; adverse effects of vaccines.

Exclusion: MBY480HI

Prerequisite: IMM334YI/IMM335YI, MBY377HI/MGY377HI, MBY378HI/MGY378HI

Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

Neuroscience is a multidisciplinary field in biology and medical sciences that concerns the study of all aspects related to the nervous system. Over the past 20 years there has been immense growth in neuroscience research, and neuroscience has become a major scientific discipline encompassing a very wide range of research topics and methods. Studies related to mechanisms of learning, memory, motivation, circadian rhythms, pain mechanisms, Alzheimer's disease and movement disorders such as Parkinson's disease and Lou Gherig's disease are a few examples illustrating the wide diversity of neuroscience topics.

The Specialist program in Neuroscience is a joint program among the Departments of Physiology, Psychology and Zoology, and provides a comprehensive and broad training in neuroscience. In years 3 and 4 students will be able to choose from a wide range of neuroscience courses and focus on their particular interest. The major areas of possible specialization include molecular, cellular, systems, behavioural, cognitive and computational neuroscience. Students in the program must take the neuroscience lab course in third year.

Undergraduate Program Director:
Professor M. Ralph, Department of Psychology, Sidney Smith Hall, Rm. 4017 (416-978-7621)

Undergraduate Advisor:
Professor W.A. MacKay, Department of Physiology, Medical Sciences Building, Rm. 3306 (416-978-2675)

Neuroscience Program

Enrolment in the program is limited. Applicants must have completed or be completing the required first year courses and will be selected on the basis of GPA, which is determined on a yearly basis by the Program Director.

Neuroscience (Science program)

Specialist program:

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

First Year:

BIO 150Y1; CHM 138H1, 139H1; MAT 135Y1; PHY 110Y1/138Y1; PSY 101H1/100Y1

Second Year:

BIO 250Y1/MAT 235Y1; CHM 247H1/STA 250H1/PSY 201H1, PSY202H1; NRS 201H1, 202H1; PSL 300H1/ZOO 252Y1/PSY 391H1; PSY 260H1/270H1/280H1

Third Year:

1. BCH 210H1, NRS 302H1
2. 1.0 FCE from: BIO 349H1; PSL 301H1, 303Y1; PSY 260H1, 270H1, 280H1
3. 1.0 FCE from: PCL 301H1, 302H1; PSY 312H1, 316H1, 362H1, 369H1, 370H1, 371H1, 372H1, 375H1, 379H1, 380H1, 389H1, 390H1, 392H1, 393H1, 394H1, 396H1; JZP 326H1; ZOO 332H1

Fourth Year:

3.0 FCEs from: JZP 326H1, 428H1; NRS 400Y1; PCL 475Y1; PSL 303Y1, 424H1, 432H1, 433H1, 440Y1, 441H1, 443H1, 444Y1, 452H1, 454H1, 460H1, 472H1, 497H1; PSY 312H1, 316H1,

362H1, 369H1, 370H1, 371H1, 372H1, 375H1, 379H1, 380H1, 389H1, 390H1, 392H1, 393H1, 394H1, 396H1, 460H1, 470H1, 471H1, 480H1, 490H1; ZOO 443H1, 485Y1

NOTE:

Students should carefully study the prerequisites for courses they plan to take in higher years. Consult the individual Advisors for assistance.

Neuroscience Courses

See page 31 for Key to Course Descriptions..

For Distribution Requirement purposes (see page 25), all NRS courses are classified as Science courses.

NRS201H1 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: PSY290H1

Prerequisite: BIO150Y1; PSY101H1/100Y1

Pre- or co-requisite: PSL300H1/ZOO252Y1/PSY391H1

NRS202H1 Neuroanatomy 26L

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.

Pre- or co-requisite: PSL300H1/302Y1/PSY290H1/ZOO252Y1

NRS299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

NRS302H1 Neuroscience Laboratory 36P

A practical course covering many aspects of neuroscience including membrane potentials, muscle contraction, sensory mechanisms, perception, reflexes, reaction time and reward mechanisms. Writing skills are emphasized. (First offered in 2001-02)

Exclusion: PSY399H1

Prerequisite: NRS201H1, 202H1; Neuroscience Specialist

NRS400Y1 Project in Neuroscience 8S, 156P

Laboratory research project on a neuroscience topic, with reading assignments leading to a final report and oral presentation. By special arrangement with a staff member in the Physiology, Psychology or Zoology departments.

Prerequisite: NRS201H1, 202H1

Life Sciences: Nutritional Sciences

Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

Faculty

Professors Emeriti

G.H. Beaton, Ph D
W.R. Bruce, MD, Ph D
M. Krongl, Ph D
A.V. Rao, 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)
L.U. Thompson, M Sc, Ph D
T.M. S. Wolever, MA, BM, BCH, M Sc, Ph D

Associate Professors

V. Tarasuk, Ph D
V. Vuksan, M Sc, D Sc

Assistant Professors

A. El-Sohehy, Ph D
D. Ma, Ph D
W. Ward, M Sc, Ph D

Lecturer

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).

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

Nutritional Sciences (Science program)

****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

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all NFS courses are classified as SCIENCE courses (see page 25).

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 45 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: BIO150YI; CHM (138HI, 139HI)/151YI; 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, PSL302YI, 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/PSL350H, NFS284HI, PSL302YI, 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/PSL350H

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: GGR107YI/POLI03YI/SOC101YI

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 the scientific aspect 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 aspects 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 31 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.

PHC 300Y1 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

PHC 320H1 Medicinal Chemistry 39 L

Modern discovery and synthesis of antibiotics, antineoplastics, antiviral and other therapeutic agents.
Prerequisite: CHM 247H1/249H1; BCH 210H1

PHC 330Y1 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; PCL 201H1; BCH 210H1

PHC 340Y1 Pharmaceutical Chemistry Laboratory 26L, 78P

The scientific basis and practical techniques relevant to modern pharmaceutical development.
Prerequisite: CHM 247H1/249H1; (CHM 220H1,221H1)/225Y1; PCL 201H1; 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

PHC 430H1 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

PHC 431H1 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

PHC 450H1 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

Life Sciences: Pharmaceutical Chemistry

PHC 451HI 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: (PHC330YI,PHC340Y)/PHM 224YI, Permission of the Department

PHC 452HI 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

PHC 460HI 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

PHC 461HI 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

PHC 470HI 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.

PHC 489YI 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

Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

Faculty

Professors Emeriti

W.M. Burnham, Ph D
L. Endrenyi, Ph D
G.J. Goldenberg, MD, 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
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
J.N. Heersche, Ph D
S. Ito, MD
J. Keystone, MD
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
K.S. Pang, Ph D
J.D. Parker, MD
P. Pennefather, Ph D
E.A. Roberts, MD
B.P. Schimmer, Ph D
E.M. Sellers, MD, Ph D
J. Semple, Ph D
N.H. Shear, MD
O.C. Snead III, MD
L. Spero, Ph D
R. Tyndale, Ph D
J.P. Uetrecht, MD, Ph D
H. Van Tol, Ph D
J.J. Warsh, MD, Ph D
J.W. Wells, Ph D
P.G. Wells, Pharm D

Associate Professors

S. Behrends, MD, PhD
F.J. Carmichael, MD, Ph D
L. Grupp, D Sc
D. Haas, Ph D, DDS
P. Harper, Ph D
S. Kish, Ph D
A.D. Lê, Ph D
A.E. LeBlanc, 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
I.G. Kerr, MD
A.J. Lança, MD, Ph D
K. Lanctôt, Ph D
J.M. Mayer, Ph D
R.S. McIntyre, MD
J.P. McPherson, PhD
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

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 and principles 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. This program is specifically concerned with the study of chemical (drug) actions on body fluids, cells, tissues and organ systems. Pharmacology (and its application in clinical therapeutics) plays 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. 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 and opportunities in preparation for advanced graduate study and research in pharmacology.

Life Sciences: Pharmacology and Toxicology

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 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, industry, etc. 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. An extra year may be required for completion of 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.

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 the different 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

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. A minimum CGPA of 3.0 is required for the specialist programs in Pharmacology and in Toxicology. A minimum CGPA of 3.5 is required for the Double Specialist program. A minimum CGPA of 2.7 is required for the major programs in Pharmacology and in Toxicology.

Pharmacology (Science program)

Specialist program:

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

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 2.7.

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.
4. Students are not allowed to enroll concurrently in the Major Program in Pharmacology and a Specialist Program in Toxicology.
5. Transfer from the Major Program in Pharmacology to the Specialist Program in Pharmacology may be requested at the end of the second year, providing that placements are available and the student has a minimum CGPA of 3.0.

Life Sciences: Pharmacology and Toxicology

Toxicology (Science program)

Specialist program:

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

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 (PHY138Y1 recommended)

Second Year:

BCH210H1; BIO250Y1; BIO260H1/HMB265H1; CHM217H1/220H1, CHM247H1/249H1; PCL201H1

Third Year:

BCH370H1; BIO349H1; LMP363H1; PCL302H1, PCL362H1, PCL376H1 (see NOTE 1); PSL302Y1* (*NOTE: PSL 201Y1 is not acceptable)

Fourth Year:

LMP301H1; PCL473Y1, PCL474Y1 (see NOTE 2), PCL481H1; and one half-credit equivalent from: ANA301H1/CHM310H1/GGR409H1/NFS488H1/PHM457H1/PCL477H1

NOTES

1. PCL376H1 may be taken either as a pre-requisite or a co-requisite to the research project course, PCL474Y1.
2. 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).

Major program:

(8 full courses or their equivalent, including two 300 series course 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 2.7.

First Year:

BIO150Y1; CHM138H1, CHM139H1/151Y1

Second Year:

BCH210H1; BIO250Y1; PCL201H1; CHM217H1/220H1 (see NOTE 1); CHM247H1/249H1

Third Year:

PCL302H1; PSL302Y1; PCL362H1 (see NOTE 2)

Fourth Year:

PCL473Y1

NOTES

1. CHM220H1 requires MAT135Y1/137Y1/151Y1 as a pre-requisite.
2. Although LMP301H1 (Introduction to the Biochemistry of Human Disease) and LMP363H1 (Principles of Pathobiology) are not pre-requisites to enroll in PCL473Y1, students are strongly recommended to enroll in at least one of these courses.

3. Students are not allowed to enroll concurrently in the Major Program in Toxicology and the Major Program in Pharmacology.
4. Students are not allowed to enroll concurrently in the Major Program in Toxicology and a Specialist Program in Pharmacology.
5. Transfer from the Major Program in Toxicology to the Specialist Program in Toxicology may be requested at the end of the second year, providing that placements are available and the student has a minimum CGPA of 3.0.

Double Specialist in Pharmacology and Toxicology (Science program)

This program requires completion of both the Pharmacology and Toxicology Specialist courses. It may require an extra year for completion. Enrollment in this program is limited and a minimum CGPA of 3.5 is required. Consult the Department for details prior to applying. Students are allowed to enroll in only one of the two project course (PCL472Y/PCL474Y) offered by the Department of Pharmacology.

Specialist program in Environment and Toxicology (Science program)

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.

Pharmacology and Toxicology Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all PCL courses are classified as SCIENCE courses (see page 25).

PCL299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

PCL201H1 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, CHM217H1/220H1, CHM247H1/249H1

PCL302H1 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, CHM217H1/220H1, CHM247H1/249H1, PCL 201H1

PCL362H1 Introductory Toxicology 26L

Toxicological problems encountered in animals and humans; biochemical mechanisms and clinical factors of toxicological significance; models of drug-related diseases.

Prerequisites: BCH210H1, BIO250Y1, CHM217H1/220H1, CHM247H1/249H1, PCL201H1

Recommended Co-requisite: BIO349H1, PCL302H1

Life Sciences: Pharmacology and Toxicology

PCL376HI Experimental Design and Data Analysis for Pharmacology and Toxicology 26L

A practically oriented course, focused on experimental design and the analysis of pharmacological and toxicological data. Topics include: principles of experimental design, data analysis and statistical tests appropriate for each type, use of computing statistical packages, analysis of dose-response and time-response curves and analysis of receptor binding assays. 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, PCL302YI

PCL471YI Pharmacology Laboratory 104P

Demonstrations, seminars, and laboratory exercises in selected areas of Pharmacology. Enrollment in the Pharmacology Laboratory course (PCL 471YI) is restricted to students enrolled in the Pharmacology and Double Specialist programs.

Prerequisites: BCH370HI, PCL372HI, 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/310HI, PCL201HI, PCL302HI, PCL362HI

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 26L **Pharmacology and Toxicology**

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/310HI, BCH342YI, BCH349HI/BIO349HI/MGY311YI/PSL350HI

Recommended Preparation: PCL201HI, PCL302HI

PCL481HI The Molecular and Biochemical 26L **Basis of Toxicology**

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: BCH210HI/310HI, LMP363HI, PCL362HI

Collaborative Program of the Faculty of Arts & Science and the Faculty of Medicine

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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). 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 **Neuroscience**

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; BIO 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; ZOO 325H1, 332H1, 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 with a minimum GPA required of 2.5.

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; BIO 349H1; JZP 326H1; PCL 201H1, 302H1; ZOO 330H1, 325H1, 332H1, 346H1, 347H1
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 328H1; BOT 251Y1; JZP 326H1, 428H1; NRS 201H1; PSL 303Y1, 350H1, 400-series; PSY 290H1, 391H1; ZOO 252Y1, 325H1, 332H1, 344H1, 345H1, 346H1, 347H1

Life Sciences: Physiology

Physiology Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), all PSL courses are classified as SCIENCE courses.

PSL201YI 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

PSL299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

PSL300HI Human Physiology I 39L, 5T

Principles of neurophysiology and endocrinology for students enrolled in the Neuroscience program.

Exclusion: PSL201YI, PSY391HI

Prerequisite: BIO150YI; CHM138HI; PHY100-series

PSL301HI Human Physiology II 39L, 4T

Principles of respiratory, cardiovascular, gastrointestinal, renal and reproductive physiology for students enrolled in the Neuroscience program.

Exclusion: PSL201YI

Prerequisite: BIO150YI; CHM138HI; PSL300HI

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: PSL201YI, 302YI

Prerequisite: BIO150YI; CHM138HI; MAT135YI/137YI; PHY138YI/140YI

PSL302YI Human Physiology 78L, 9T

Principles of Human Physiology for students enrolled in Basic Medical Science programs.

Exclusion: PSL201YI

Prerequisite: BIO150YI, 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: JBO302YI/PSL302YI, MAT100-series, PHY100-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: BIO250YI

Exclusion: BIO349HI/JLM349HI/MGY311YI

Pre- or Co-requisite: PSL300HI/301HI/302YI/ JBO302YI/ BCH210HI

PSL372HI Mammalian Physiology Laboratory 13L, 39P

A laboratory course covering selected topics in physiology.

Prerequisite: BIO250YI, BCH210HI, MAT100-series/PHY100-series

Pre- or Co-requisite: PSL302YI, 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: BIO250YI, PSL302YI, 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: PSL302YI

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: PSL302YI

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, PSL302YI

Recommended Preparation: PSL303YI

PSL432HI Theoretical Physiology 26L

Theoretical treatment of neurophysiology. Mathematical modeling and analysis of neurophysiological systems.

Prerequisite: MAT235YI/237YI; APM346HI/MAT244HI

Recommended Preparation: PHY200-series; PSL201YI/302YI/ ZOO252YI

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/302YI/PSY290HI/ZOO332HI 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/302YI

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/302YI/ZOO332HI

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 and Electronics 13L, 39P

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, BIO349HI/PSL350HI, PSL302YI

PSL462HI Molecular Aspects of Cardiovascular Function 26L

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 Chronobiology 26L

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

PSL497HI Scientific Communication 26L/ST

Students learn to read, write and speak about current research in Physiology.

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

Faculty

University Professor Emeritus

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.E. Foley, BA, Ph D (S)
B. Forrin, MA, Ph D (S)
J.L. Freedman, MA, Ph D
J.J. Furedy, MA, Ph D
J.A. Hogan, MA, Ph D
L. Krames, MA, Ph D (UTM)
M.W. Lawrence, MA, Ph D
R.S. Lockhart, MA, Ph D (N)
N. Mrosovsky, BA, Ph D
B.B. Murdock, BA, Ph D
A. Rapoport, SM, Ph D
B.B. Schiff, M Sc, Ph D
M.C. Smith, BA, Ph D (S)
S.E. Trehub, BA, Ph D (UTM)
A.M. Wall, BA, Ph D
G.C. Walters, BA, Ph D (W)
B.T. Wigdor, CM, Ph D, D Sc

Professor and Chair of the Department

F.J. Vaccarino, M Sc, Ph D

Professor and Vice-Chair and Director (Undergraduate Studies)

C.P. Herman, BA, Ph D

Associate Professor and Associate Director (Undergraduate Studies)

P. Lockwood, MA, Ph D

Professor and Director (Graduate Studies)

M. Moscovitch, MA, Ph D

Professor and Associate Director (Graduate Studies)

J.W. Pratt, MS, Ph D

Professors

R.A. Abramovitch, MA, Ph D (UTM)
T.M. Alloway, MA, Ph D (UTM)
J.N. Bassili, BA, Ph D (S)
K.R. Blankstein, MA, Ph D (UTM)
C.M. Corter, BA, Ph D (UTM)
G.C. Cupchik, MA, Ph D (S)
M. Daneman, MA, Ph D (UTM)
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D. Goldstein, MA, Ph D
J.E. Grusec, BA, Ph D
L. Hasher, AB, Ph D
C.C. Helwig, BA, Ph D
G.O. Ivy, BA, Ph D (S)
J.M. Kennedy, BA, Ph D (S)
A. Kukla, MA, C Phil, Ph D (S)
N.W. Milgram, MA, Ph D (S)

T.L. Petit, MA, Ph D (S)
P.L. Pliner, BS, Ph D (UTM)
J. Polivy, MA, Ph D (UTM)
M.R. Ralph, BS, Ph D
E.M. Reingold, MA, Ph D (UTM)
G. Schellenberg, B Sc, Ph D (UTM)
B.A. Schneider, BA, Ph D (UTM)
S.J. Shettleworth, MA, Ph D
M.L. Smith, M Sc, Ph D (UTM)
I. Spence, MA, Ph D
W.F. Thompson, MA, Ph D (UTM)
J.S. Yeomans, BA, Ph D (U)
P.D. Zelazo, MA, Ph D (U)

Associate Professors

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G. Moraglia, M Sc, Ph D (UTM)
J.B. Peterson, BA, Ph D
M.K. Pichora-Fuller, M Sc, Ph D (UTM)
M.A. Schmuckler, BA, Ph D (S)
R.W. Tatarodi, BA, Ph D

Assistant Professors

G. Adams, Ph D
A. Anderson, Ph D
E. DeRosa, Ph D
S. Erb, MA, Ph D (S)
S. Ferber, Diplom, Ph D
Michael Inzlicht, Sc M, Ph D (S)
H. Lempert, M Sc, Ph D
David Nussbaum, MA, Ph D (S)
U. Schimmack, MA, Ph D (UTM)

Special Lecturers

M. Bagby, Ph D
F. Cortese, Ph D
M. Gemar, B Sc, Ph D
R. Hetherington, MA, Ph D
J.G. Hollands, BA, MA, Ph D
M. Lau, Ph D
N. Rector, BA, Ph D
N. Stuckless, Ph D
F. Taverna, Ph D
J. Vervaeke, Ph D

Senior Lecturer

L.F. Paulo Kushnir, MA, Ph D

Lecturer

D. Dolderman, 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; JZP 326HI, 428HI 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.

Neuroscience: see Neuroscience

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; c) PSY 201HI and 202HI (or equivalent); d) four 200-level 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 to include 1.0 courses in Statistics and 8.0 full courses or equivalent in PSY

First Year:

PSY 100HI

After PSY 100HI:

1. Statistics: PSY (201HI, 202HI)/ECO 220Y1/227Y1/GGR 270Y1/SOC 300Y1/STA (220HI, 221HI)/250HI/STA (220HI, JBS 229HI)
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 1 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 400Y1, 409HI
7. Two half-courses at any level, taken from Groups 1 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 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 to include 1.0 courses in Statistics and 8.0 full courses or equivalent in PSY

First Year:

PSY 100HI

After PSY 100HI:

1. Statistics: PSY (201HI, 202HI)/ECO 220Y1/227Y1/GGR 270Y1/SOC 300Y1/STA (220HI, 221HI)/250HI/(STA 220HI, JBS 229HI).
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 1 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/JZP 428HI/PSY 401HI/410HI/420HI/430HI/440HI/460HI/470HI/471HI/472HI/473HI/480HI/490HI
6. Two half-courses at any level taken from Groups 1 and/or 2 below

Life Sciences: Psychology

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 100H1; and d) have a CGPA of 2.5.

NOTE: The courses to include 0.5 courses in Statistics and 6.0 full courses or equivalent in PSY

First Year:
PSY 100H1

After PSY 100H1:

1. Statistics: PSY 201H1/ECO 220Y1/227Y1/GGR 270H1/SOC 300Y1/STA 220H1/250H1
2. Two of PSY 210H1, 220H1, 230H1, 240H1 (Cluster A), and two of 260H1, 270H1, 280H1, 290H1 (Cluster B)
3. Four half-courses at the 300-level from Group 1 below, with at least one from each of Clusters A and B
4. Three half-courses at any level taken from Groups 1 and 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 100H1; and d) have a CGPA of 2.0.

NOTE: The courses to include 0.5 courses in Statistics and 3.5 full courses or equivalent in PSY

First Year:
PSY 100H1

After PSY 100H1:

1. Statistics: PSY 201H1/ECO 220Y1/227Y1/GGR 270H1/SOC 300Y1/STA 220H1/250H1
2. At least two of: PSY 210H1/220H1/230H1/240H1/260H1/270H1/280H1/290H1
3. At least two half-courses at the 300-level taken from Group 1 below, in any of Clusters A and B
4. At least two-half courses at any level, taken from Groups 1 and/or 2 below

Group 1:

Cluster A:

JLP 315H1/PSY 210H1/220H1/230H1/240H1/300H1/
301H1/303H1/304H1/311H1/312H1/313H1/314H1/316H1/
317H1/319H1/320H1/321H1/322H1/323H1/324H1/325H1/
326H1/327H1/328H1/329H1/330H1/331H1/332H1/333H1/
334H1/335H1/336H1/339H1/341H1/342H1/343H1/401H1/
402H1/403H1/404H1/410H1/420H1/430H1/440H1

Cluster B:

JLP 374H1/471H1/JZP 326H1/428H1/PSY 260H1/270H1/
280H1/290H1/300H1/301H1/303H1/304H1/312H1/
316H1/362H1/369H1/370H1/371H1/372H1/375H1/378H1/
379H1/380H1/389H1/390H1/391H1/392H1/393H1/394H1/
396H1/399H1/402H1/403H1/404H1/460H1/470H1/471H1/
472H1/473H1/480H1/490H1

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 150Y1/ENG 290Y1/HIS 498H1/HMB 200H1/420H1/JLS
474H1/UNI 250Y1/450H1/LIN 100Y1/372H1/MGT 262H1/
NEW 303H1/372H1/NRS 201H1/202H1/302H1/400Y1/
PCL 475Y1/PHL 240H1/243H1/340H1/POL 313Y1/PSL
300H1/301H1/302Y1/433H1/440Y1/444Y1/RLG 211Y1/301H1/
302H1/303H1/421H/TRN 320Y1/UNI 370H1/447H1/470H1/
WDW 260H1/260H1/265H1/ZOO 252Y1/332H1

Psychology Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all PSY courses are classified as SCIENCE courses (see page 25).

NOTE:

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.

SC1199H1/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 45.

PSY100H1 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: PSY200H1, PSY100H1

Prerequisite: There is no prerequisite for PSY100H1; however, an OAC/12U Calculus or equivalent is required to enrol in any Psychology PROGRAM subsequent to taking PSY100H1.

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.

PSY201HI Statistics I 39L, 26T

Fundamentals of descriptive and inferential statistics, including population and sampling distributions, simple association, probability, estimation, and hypothesis testing.

Exclusion: ECO220Y1/227Y1/GGR270HI/SOC300Y1/STA220HI/250HI

Prerequisite: PSY 100Y1/HI/UNI250Y1

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: ECO220Y1/227Y1/GGR270Y1/SOC300Y1/STA221HI/250HI/JBS229HI

Prerequisite: PSY201HI

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 100Y1/HI/UNI250Y1

PSY220HI Introduction to Social Psychology 39L

Contemporary areas of research in social psychology: social perception, attitudes, inter-personal relations, and group processes.

Prerequisite: PSY 100Y1/HI/UNI250Y1

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 100Y1/HI/UNI250Y1

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 100Y1/HI/UNI250Y1

PSY260HI Introduction to Learning 39L

Concepts, theories and applications in historical and contemporary contexts: respondent and operant conditioning, reinforcement, extinction, stimulus control (generalization and discrimination) and aversive control (punishment and avoidance).

Prerequisite: PSY 100Y1/HI/UNI250Y1 or NRS specialist

PSY270HI Introduction to Cognitive Psychology 39L

An introduction to research and theory in the study of attention, memory, language, thinking and reasoning.

Prerequisite: PSY 100Y1/HI/UNI250Y1 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 100Y1/HI/UNI250Y1 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 learning and memory.

Exclusion: NRS201HI

Prerequisite: PSY 100Y1/HI/UNI250Y1 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 45 for details. Note: This course cannot be used as a PSY program requirement.

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

**PSY301HI Psychological Theory 26S
(formerly PSY407HI)**

The role of theory in psychology critically examined through consideration of psychological controversies.

Exclusion: PSY407HI

Prerequisite: PSY202HI

**PSY303HI/ Individual Projects TBA
304HI**

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.

Life Sciences: Psychology

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
Age-related changes in knowledge acquisition, reasoning, and the control of behaviour. Traditional perspectives (e.g., Baldwin, Vygotsky, Piaget) and current issues (e.g., neuropsychology, future-oriented behaviour, theory of mind).
Prerequisite: PSY201HI, (210HI/270HI/271HI/UNI250Y1)

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

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, 210HI, 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)

JZP326HI Biological Rhythms 26L, 13T
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. (Given by the Departments of Psychology and Zoology)
Prerequisite: BIO150Y1/PSY100HI, one full or two 200-series half-courses in the Sciences

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

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)

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.

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: 270HI/UNI250YI

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/UNI250YI

Life Sciences: Psychology

PSY372HI Human Memory 39L

Current theories and data on human memory: processes involved in encoding, storage, and retrieval.
Prerequisite: PSY201HI, 270HI/UNI250YI

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, PSY 220HI, (PSY 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/UNI250YI)

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/UNI250YI)
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/UNI250YI); 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 lectures and readings. Important class for psychology, cognitive science, and neuroscience students.
Prerequisite: (PSY201HI/MAT135YI), 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

PSY391HI Physiological Psychology II 39L

A survey of brain mechanisms important for behaviour. The goal is to understand neural function well enough to appreciate how neural circuits can control simple and complex behaviours. Topics include neurophysiology (how neurons work, and work together), motor control, touch and pain sensation, feeding and drinking, reward and motivation, learning and cognition.
Prerequisite: PSY290HI taken in 1999 or later/NRS201HI
Exclusion: PSL300HI

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, 290HI/NRS201HI

PSY396HI Neurochemical Basis of Behaviour 26L, 13T

The functional relevance of neurotransmitters, with particular emphasis on their role in mediating behaviour.
Prerequisite: PSY201HI, 290HI/NRS201HI
Exclusion: PCL 475YI

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 45 for details.

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 psychology research specialist program, PSY309HI, PSY3*9HI (PSY lab course)

PSY401HI A Biobehavioural Approach to 26L
Psychological Theories
and Applications

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: 26S
Theoretical Foundations

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 Psychology Research Specialist program

PSY410HI Developmental Psychology 26S
Seminar

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

JZP428HI Advanced Topics in 26S
Biological Rhythms

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. (Given by the Departments of Psychology and Zoology)

Prerequisite: JZP 326HI

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/UNI250YI, 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: LIN322HI, 331HI, JLP374HI

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

PSY472HI Game Theory I 26S
(formerly PSY408HI)

Risky decisions, games against nature, lotteries, gambling and insurance. Two-person non-cooperative games. Individual and collective rationality. Paradoxes of decision theory.

Prerequisite: PSY202HI, PSY Specialist or permission of department

PSY473HI Game Theory II 26S
(formerly PSY409HI)

Two-person and n-person cooperative games. Allocation problems. Distribution of power. Theory of coalition formation. Group decisions. Game theory as a theory of conflict resolution.

Exclusion: PSY409HI

Prerequisite: PSY202HI, 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*HI/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

Faculty

Professors Emeriti

D.G. Butler, M Sc, Ph D, D Sc, FRSA
L. Butler, MSA, Ph D
D.A. Chant, MA, Ph D, LL D, FRSC
C.S. Churcher, M Sc, Ph D (T)
G.M. Clark, M Sc, Ph D
S.S. Desser, M Sc, Ph D
D.W. Dunham, BS, Ph D
J.B. Falls, BA, Ph D
W.G. Friend, B Sc, Ph D (W)
R.I.C. Hansell, B Sc, Ph D (N)
H.H. Harvey, M Sc, Ph D
R.A. Liversage, AM, Ph D
Y. Masui, M Sc, Ph D
G.K. Morris, MS, Ph D (UTM)
N. Mrosovsky, BA, PhD
J.E. Paloheimo, MA, Ph D
T.S. Parsons, AM, Ph D (SM)
R.C. Plowright, MA, Ph D
B.H. Pomeranz, MD, CM, Ph D
T.E. Reed, BA, Ph D
H.A. Regier, MS, Ph D
B.I. Roots, B Sc, Ph D, D Sc, FRSC
† W.B. Scott, BA, Ph D
I. Tallan, B Sc, Ph D
G.M. Telford, B Sc, Ph D
† G.B. Wiggins, MA, Ph D
† M.P. Winsor, M Phil, Ph D (V)
J.H. Youson, M Sc, Ph D (UTSC)
A.M. Zimmerman, MS, Ph D

Professor and Chair of the Department

R.L. Baker, M Sc, Ph D (UTM)

Professors and Associate Chairs

J.D. Rising, BA, Ph D
D.D. Williams, M Sc, Ph D (UTSC)
D.A. Jackson, M Sc, Ph D

Associate Professor and Associate Chair

N.C. Collins, BA, Ph D (UTM)

Associate Professor and Assistant Chair

F.H. Rodd, M Sc, Ph D

Professors

P.A. Abrams, BS, Ph D
† T.M. Alloway, MA, Ph D (UTM)
† A.J. Baker, M Sc, Ph D
F.M. Barrett, M Sc, Ph D
R. Boonstra, B Sc, Ph D (UTSC)
D.R. Brooks, MS, Ph D, FRSC
I.R. Brown, B Sc, Ph D (UTSC)
J.H. Fullard, M Sc, Ph D (UTM)
M.R. Gross, B Sc, Ph D
D.T. Gwynne, B Sc, Ph D (UTM)
A.B. Lange, BS, Ph D (UTM)
E.W. Larsen, M Sc, Ph D

† R. Murphy, MA, Ph D
D.H. O'Day, M Sc, Ph D (UTM)
I. Orchard, B Sc, Ph D (UTM)
R.R. Reisz, M Sc, Ph D (UTM)
L. Rowe, M Sc, Ph D
† S.J. Shettleworth, MA, Ph D
J.J.B. Smith, MA, Ph D (N)
M.B. Sokolowski, B Sc, Ph D, FRSC (UTM)
W.G. Sprules, MA, Ph D (UTM)
U. Tepass, M Sc, Ph D
† R.P. Thompson, MA, Ph D (V)
J.D. Thomson, MS, PhD
S.S. Tobe, M Sc, Ph D, FRSC
† F.J. Vaccarino, M Sc, Ph D
S.L. Varmuza, MS, Ph D
† R. Winterbottom, B Sc, Ph D
† J.S. Yeomans, BA, Ph D
A.P. Zimmerman, BA, Ph D

Associate Professors

L.T. Buck, B Sc, Ph D
† D.R. Calder, AM, Ph D
† D.H. Collins, B Sc, Ph D
† D.C. Currie, B Sc, Ph D
H. Cyr, M Sc, Ph D
† C. Darling, M Sc, Ph D
† M.D. Engstrom, MS, Ph D
M.-J. Fortin, M Sc, PhD
D.K. Gibo, MA, Ph D (UTM)
D. Godt, Dipl in Bio, Ph D
† D. Irwin, B Sc, Ph D
D.A. Lovejoy, B Sc, Ph D
D.A. McLennan, M Sc, Ph D
† M.R. Ralph, B Sc, Ph D
M.J. Ringuette, B Sc, Ph D
P.A. Romans, M Sc, Ph D
† S.M. Smith, M Sc, Ph D
R. Stephenson, B Sc, Ph D
J.T. Westwood, M Sc, Ph D (UTM)
R. Winklbauer, Dipl in Bio, Ph D

Assistant Professors

A. Agrawal, B Sc, Ph D
† M.C.B. Andrade, M Sc, Ph D (UTSC)
† T.J. Brown, BS, Ph D
A. Bruce, BA, Ph D
B. Chang, AB, Ph D
A.D. Cutter, BS, PhD
T.J. Harris, B Sc, Ph D
+R. Harrison, M Sc, Ph D (UTSC)
J. Levine, BA, Ph D (UTM)
† M. Locke, B Sc, BA, Ph D
N.R. Lovejoy, M Sc, Ph D (UTSC)
+L. Manne, MS, Ph D (UTSC)
† A.C. Mason, M Sc, Ph D (UTSC)
J.E. Nash, M Res, Ph D (UTSC)
J. Peever, M Sc, Ph D
+S. Reid, B Sc, Ph D (UTSC)
† B.A. Stewart, M Sc, Ph D (UTSC)

V. Tropepe, B Sc, Ph D
M. Woodin, M Sc, Ph D

Senior Lecturer

C.A. Goldman, M Sc

Lecturer

M. Neumann, M Sc, Ph D

† Cross-appointed

The Department of Zoology (and the Department of Botany) will be disestablished as of July 1, 2006, and its faculty, programs and courses will become part of the new departments of Cell and Systems Biology (CSB), and Ecology and Evolutionary Biology (EEB). During the transition period, courses in Biology, Botany, and Zoology that will be administered through CSB are now listed under that department name in the Calendar. The same is true for the courses that apply to EEB. With regard to the programs, please see below for the listing of programs and where you can now find them in the Calendar

Zoology Programs

Behaviour: see [Ecology and Evolutionary Biology](#)

Biology: see [Biology](#)

Comparative Animal Physiology: see [Cell and Systems Biology](#)

Developmental Biology: see [Cell and Systems Biology](#)

Ecology: see [Ecology and Evolutionary Biology](#)

Evolutionary Biology: see [Ecology and Evolutionary Biology](#)

Neuroscience: see [Neuroscience](#)

Zoology: see [Biology](#)

Zoology Courses

All of the courses listed below will be administered through two new departments as of 1 July 2006. These are Cell and Systems Biology and Ecology and Evolutionary Biology. Below indicates which department to go to for each course. **Both of these departments are listed under Life Sciences.**

BIO150YI Organisms in their Environment
See Ecology and Evolutionary Biology

BIO225HI Biostatistics for Biological Sciences
See Cell and Systems Biology, & Ecology and Evolutionary Biology

BIO250YI Cell and Molecular Biology
See Cell and Systems Biology

BIO260HI Genetics
See Cell and Systems Biology

BIO301HI Marine Biology
See Ecology and Evolutionary Biology

BIO302HI Arctic Ecosystems
See Ecology and Evolutionary Biology

BIO303HI Ecology and Evolutionary Biology
See Ecology and Evolutionary Biology

BIO305HI Experimental Ecology In Southern Ontario
See Ecology and Evolutionary Biology

BIO306HI Inter-University Field Courses
See Ecology and Evolutionary Biology

BIO307HI Alpine Ecosystems
See Ecology and Evolutionary Biology

BIO308HI Biodiversity and Ecology in Indochina
See Ecology and Evolutionary Biology

BIO310HI Crustacean Aquaculture in Thailand: Physiological and Molecular Approaches
See Cell and Systems Biology, & Ecology and Evolutionary Biology

BIO319HI Population Ecology
See Ecology and Evolutionary Biology

BIO321HI Community Ecology
See Ecology and Evolutionary Biology

BIO323HI Evolution
See Ecology and Evolutionary Biology

BIO324HI Evolutionary Ecology
See Ecology and Evolutionary Biology

BIO328HI Physiological Ecology
See Ecology and Evolutionary Biology

BIO349HI Eukaryotic Molecular Biology
See Cell and Systems Biology

BIO351YI Introductory Virology
See Cell and Systems Biology

BIO365HI Biodiversity and Conservation Biology
See Ecology and Evolutionary Biology

BIO370HI Theoretical Ecology and Evolution
See Ecology and Evolutionary Biology

BIO428HI Global Change Ecology
See Ecology and Evolutionary Biology

BIO458HI Epigenetics
See Cell and Systems Biology

BIO459HI Population Genetics
See Ecology and Evolutionary Biology

BIO460HI Molecular Evolution
See Ecology and Evolutionary Biology

BIO461HI Chromosome Biology (formerly BIO 359HI)
See Cell and Systems Biology

BIO463HI Evolutionary Genomics
See Ecology and Evolutionary Biology

BIO465HI Topics in Conservation Biology (formerly BIO395HI)
See Ecology and Evolutionary Biology

BIO468HI Lectures in Limnology
See Ecology and Evolutionary Biology

Life Sciences: Zoology

BIO469HI **Limnology**

See Ecology and Evolutionary Biology

BIO471HI **Quantitative Ecology**

See Ecology and Evolutionary Biology

BIO472HI **Bioinformatics**

See Cell and Systems Biology

BIO473HI **Chemical Biology**

See Cell and Systems Biology

BIO482YI **Topics in Developmental Biology
(formerly ZOO 482YI)**

See Cell and Systems Biology

BIO494YI **Seminar in Evolutionary Biology**

See Ecology and Evolutionary Biology

BIO495YI **Seminar in Ecology**

See Ecology and Evolutionary Biology

BIO496YI **Seminar in Behaviour and Behavioural
Ecology**

See Cell and Systems Biology, & Ecology and Evolutionary
Biology

ENV234YI **Environmental Biology**

See Centre for Environment

JBS229HI **Statistics for Biologists**

See Cell and Systems Biology, & Ecology and Evolutionary
Biology

JMB170YI **Biology, Models, and Mathematics**

See Cell and Systems Biology, & Ecology and Evolutionary
Biology

JZP326HI **Biological Rhythms**

See Cell and Systems Biology, & Ecology and Evolutionary
Biology

JZP428HI **Advanced Topics in Biological Rhythms**

See Cell and Systems Biology, & Ecology and Evolutionary
Biology

SCI199HI/YI **First Year Seminar**

See Cell and Systems Biology, & Ecology and Evolutionary
Biology

ZOO200YI **Aspects of Human Biology**

See Cell and Systems Biology

ZOO214YI **Evolution and Adaptation**

See Ecology and Evolutionary Biology

ZOO215HI **Conservation Biology**

See Ecology and Evolutionary Biology

ZOO216HI **Marine Mammal Biology and
Conservation**

See Ecology and Evolutionary Biology

ZOO252YI **Introductory Animal Physiology**

See Cell and Systems Biology

ZOO263YI **Comparative Anatomy**

See Ecology and Evolutionary Biology

ZOO265YI **Animal Diversity**

See Ecology and Evolutionary Biology

ZOO299YI **Research Opportunity Program**

See Cell and Systems Biology, & Ecology and Evolutionary
Biology

ZOO304HI **Field Ornithology**

See Ecology and Evolutionary Biology

ZOO322HI **Behaviour and Behavioural Ecology**

See Ecology and Evolutionary Biology

ZOO325HI **Endocrine Physiology**

See Cell and Systems Biology

ZOO327HI **Extracellular Matrix Macromolecules**

See Cell and Systems Biology

ZOO328HI **Developmental Biology I**

See Cell and Systems Biology

ZOO329HI **Evolution of Development**

See Cell and Systems Biology

ZOO330HI **Techniques in Molecular, Cellular and
Developmental Biology**

See Cell and Systems Biology

ZOO331HI **Cell Adhesion and Migration in
Development**

See Cell and Systems Biology

ZOO332HI **Neurobiology of the Synapse**

See Cell and Systems Biology

ZOO344HI **Comparative Endocrinology of
Invertebrates**

See Cell and Systems Biology

ZOO 345HI **Biology of Sleep**

See Cell and Systems Biology

ZOO346HI **Neurobiology of Respiration**

See Cell and Systems Biology

ZOO347HI **Comparative Cellular Physiology**

See Cell and Systems Biology

ZOO354YI **History of Biology**

See Ecology and Evolutionary Biology

ZOO356HI **Insect Biology**

See Ecology and Evolutionary Biology

ZOO357HI **Biology of Vector-Borne Parasitic
Diseases**

See Cell and Systems Biology

ZOO360HI **Entomology**

See Ecology and Evolutionary Biology

ZOO361HI **Field Entomology**

See Ecology and Evolutionary Biology

ZOO362HI **Introduction to Macroevolution**

See Ecology and Evolutionary Biology

ZOO375HI **Environmental Factors**

See Ecology and Evolutionary Biology

ZOO384HI **Biology of Amphibians**

See Ecology and Evolutionary Biology

ZOO386HI **Avian Biology**

See Ecology and Evolutionary Biology

ZOO388HI **Biology of Mammals**

See Ecology and Evolutionary Biology

ZOO389HI Mammalian Diversity

See Ecology and Evolutionary Biology

ZOO398H0/399Y0 Independent Experiential Study Project

See Cell and Systems Biology, & Ecology and Evolutionary Biology

ZOO425HI Endocrinology of Transformation

See Cell and Systems Biology

ZOO429HI Germ Cell Biology

See Cell and Systems Biology

ZOO430HI Developmental Neurobiology

See Cell and Systems Biology

ZOO462HI Advanced Applications of Phylogenetic Systematics

See Ecology and Evolutionary Biology

ZOO485YI Research in Physiology

See Cell and Systems Biology

ZOO498YI Project in Zoology I

See Cell and Systems Biology, & Ecology and Evolutionary Biology

ZOO499YI Project in Zoology II

See Cell and Systems Biology, & Ecology and Evolutionary Biology

Linguistics

Faculty

Professors Emeriti/Retired Professors

B. Brainerd, MS, Ph D
E. N. Burstynsky, MA, Ph D
J.K. Chambers, MA, Ph D
H.A. Gleason, Jr., D Sc, Ph D
H.E. Rogers, M Ed, MA, Ph D
P.A. Reich, MS, Ph D
T.Venkatacharya, MA, Vyakarana Siromani
R. Wardhaugh, MA, Ph D

Professor and Chair of the Department

D. Massam, MA, Ph D

Associate Chair and Graduate Coordinator

B. E. Dresher, BA, Ph D

Undergraduate Coordinator

S. Tagliamonte, MA, Ph D

Professors

E.A. Cowper, AM, Ph D
B.E. Dresher, BA, Ph D
K.D. Rice, MA, Ph D

Associate Professors

A. Johns, MA, Ph D
A.T. Pérez-Leroux, MA, PhD
R. Smyth, M Sc, Ph D
S. Tagliamonte, MA, Ph D

Assistant Professor

M.C. Cuervo
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, Prof. S. Tagliamonte, (416-978-4029).

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 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)

The Language component is six or seven courses or their equivalent in the language chosen as follows:

English

(7 courses)

Note:

Students wishing to complete a Combined Specialist Program in English and Linguistics must complete seven ENG/JEF courses, fulfilling all of the following requirements:

1. ENG 201Y1/202Y1
2. ENG 367Y1
3. At least two courses selected from the pre-1800 group of courses (Group A); at least one of the courses must be at the 300+ level (ENG 240Y1 and ENG 300Y1 specially recommended)
4. Only one 100-level ENG/JEF course may be counted towards the Program requirements; ENG 100H1, ENG 185Y1, HUM 199Y1 may not be counted

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 (8.5 FCE's)

First Year

CSC 165H1/240H1 (107H1/108H1, 148H1)/150H1; MAT 137Y1/157Y1

Second Year

CSC 207H1, 236H1/240H1 263H1/265H1; MAT 223H1; STA 247H1/257H1

Higher Years

1. CSC 258H1, 324H1, 340H1, 401H1, 485H1
2. 1.0 additional FCE's in CSC, chosen from: CSC 343H1, 363H1/365H1, 373H1/375H1, 384H1, 408H1, 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)

Linguistics

Philosophy

(7 courses)

1. PHL 210Y1, 245H1, 351H1
2. Five additional PHL courses, at least three at the 300-level. The following courses are particularly recommended: HPS 250H1; UNI 250Y1; PHL 325H1, 326H1, 340H1, 342H1, 345H1, 347H1, 351H1, 355H1, 451H1

Linguistics Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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 45.

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: LIN100YI

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 100Y1/200H1

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: LIN202YI

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: LIN202YI

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/YIY, 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: LIN100Y1/200H1

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, 228H1

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

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 45 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

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 Semantics 26L

The study of meaning within linguistics. Areas of interest include word meaning, the interpretation of syntactic units such as the sentence, the logic of semantic properties, and the interaction of meaning and the use of language. (Not offered every year)
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 26L

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 45 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.

Prerequisite: LIN228HI, 229HI, 231HI, 232HI + 1 FCE at the 300+ level in LIN/JAL/JFL/JLP/JLS

LIN423HI Phonetic Analysis 26L

Theoretical discussion of the acoustic correlates of various types of sounds found in language. Practical experience in the acoustic analysis of speech. (Not offered every year)

Exclusion: LIN321HI

Prerequisite: LIN323HI

This is a Humanities course

LIN432HI Advanced Morphology: Morphosyntax 39L

Current research involving morphology, including the role of morphology in the grammar, the nature of inflectional paradigms, affixes affecting grammatical relations. Each year one topic will be a special focus and will be dealt with at length. (Not offered every year)

Prerequisite: LIN231HI

Co-requisite: LIN331HI

This is a Humanities course

Linguistics

LIN451HI Urban Dialectology 26L

Ways in which urban sub-cultures differ in their use of language. How speakers' dialects reflect their ethnicity, group affiliation, and other social categories. Practice in dialect analysis based on data from the speech community, emphasizing procedures and techniques.

Prerequisite: LIN256HI plus 2 FCE at the 200+ level in LIN/JAL/JLP

This is a Humanities or Social Science course.

LIN458HI Revitalizing Languages 26L

A study of language endangerment and language revitalization efforts, focusing on Aboriginal languages of Canada. Topics include language classification and a survey of major features of the languages, what it means for a language to be endangered, the factors that contribute to language shift, and efforts to reverse language shift, including discussion of literacy and dictionaries.

Prerequisites: LIN100Y1Y plus at least two full course equivalents drawn from LIN/JAL.

This is a Humanities or Social Science course.

JLP471HI Advanced Psycholinguistics 39L

Seminar in advanced topics in psycholinguistics. Content will vary from year to year. (Given by the Departments of Linguistics and Psychology) (Not offered every year)

Prerequisite: JLP374HI, LIN322HI/331HI

This is a Science course

JLS474HI Disorders of Speech and Language 39L

Normal and deviant development of speech and language; a survey of the disorders of human communication; an overview of intervention for disorders of speech, voice, language, swallowing and hearing; the effects of human communication handicaps on the individual, family, and community; theoretical and philosophical aspects of disordered communication. (Given by the Departments of Linguistics and Speech Pathology)

Prerequisite: JLP315HI/374HI

This is a Science course

JFL477HI Issues in French and Linguistics I 26S

An advanced seminar on issues of current theoretical relevance in linguistics with special reference to French. This course is taught in English.

Prerequisite: Any 300+series FRE or LIN 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.

Prerequisite: Any 300+series FRE or LIN course

LIN479HI Current Issues in Linguistics 26S

An advanced seminar in current issues of theoretical relevance.

Prerequisite: LIN228HI, 229HI, 231HI, 232HI + 1 FCE at the 300+ level in LIN/JAL/JFL/JLP/JLS

This is a Humanities course

LIN480HI History of Linguistics 26L

A survey of linguistic thought from Panini to the present, focussing primarily on the 20th century. Three approaches are used: linguistic schools, major personalities and their works, and concepts. (Not offered every year)

Prerequisite: LIN100Y1

Recommended preparation: Reading knowledge of another European language

This is a Humanities course

LIN481HI Introduction to Analysis and Argumentation 39L

Argumentation, practice in constructing and evaluating hypotheses, and critical evaluation of representative articles. Emphasis on the structure of arguments rather than on the analysis of a particular language.

Prerequisite: LIN322HI/331HI

This is a Humanities course

LIN495YI/ Individual Project 497YI TBA

A research or reading project undertaken by the student under the supervision of a staff member. Open only when a faculty member is willing and available to supervise.

Prerequisite: Permission of the Department

LIN496HI/ Individual Project 498HI/ 499HI TBA

A research or reading project undertaken by the student under the supervision of a staff member. Open only when a faculty member is willing and available to supervise.

Prerequisite: Permission of the Department

Literary Studies: see Victoria College

Macedonian: See Slavic Languages and Literatures

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

Materials Science (Science program)

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/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

See page 31 for Key to Course Descriptions..

For Distribution Requirement purposes (see page 25), 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: MSE101HI

MSE314HI 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.

MSE315HI 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.

MSE316HI 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.

MSE318HI 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.

MSE319HI 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: MSE316HI

CHM325HI Introduction to Inorganic and Polymer Materials Chemistry

See "Chemistry"

MSE330HI 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.

MSE401HI 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.

MSE420HI 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.

MSE430HI 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.

CHM434HI Advanced Materials Chemistry See "Chemistry"

CHE461HI 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.

CHE463HI 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: MSE330HI

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/MSE490HI
Prerequisite: Any 300/400-series MSE half course and permission of the Department

Faculty

Professors Emeriti

M.A. Akcoglu, M Sc, Ph D, FRSC
 D.F. Andrews, M Sc, Ph D
 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
 D.A.S. Fraser, BA, Ph D, FRSC
 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, Ph D
 I. Kupka, AM, Ph D, Dr ès Sc M
 A.B. Lehman, BS, Ph D
 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.W. 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

Y. Karshon, B Sc, Ph D (UTM)

Professor and Associate Chair

J.W. Lorimer, M Sc, Ph D (U)

University Professors

J.G. Arthur, MA, Ph D, FRSC, FRS
 S.A. Cook, AM, Ph D, FRSC (T)
 J. Friedlander, MA, Ph D, FRSC (UTSC)
 I.M. Sigal, BA, Ph D, FRSC

Professors

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
 D.G. Corneil, MA, Ph D
 A. del Junco, M Sc, Ph D
 G. Elliott, B Sc, Ph D, FRSC
 W.H. Enright, M Sc, Ph D
 M.J. Evans, M Sc, Ph D
 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
 R. Jerrard, B Sc, Ph D
 B. Khesin, M Sc, Ph D
 A. Khovanskii, M Sc, Ph D

H. Kim, B Sc, Ph D
 M. Lyubich, B Sc, Ph D
 R. MATHON, M Sc, Ph D (UTM)
 R. McCann, B Sc, Ph D
 E. Meinrenken, B Sc, Ph D
 G. Mikhalkin, BA, Ph D
 E. Mendelsohn, M Sc, Ph D (UTSC)
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 F. Murnaghan, M Sc, Ph D
 K. Murty, B Sc, Ph D, FRSC
 A. Nachman, B Sc, Ph D (APSC)
 T. Pitassi, M SC, Ph D
 C. Pugh, B Sc, Ph D
 J. Quastel, M Sc, Ph D
 J. Repka, B Sc, Ph D (U)
 J.S. Rosenthal, B Sc, Ph D
 P. Rosenthal, MA, Ph D, LLB
 L. Seco, BA, Ph D (UTM)
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 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

R. Almgren, B Sc, Ph D
 D. Bar-Natan, B Sc, Ph D
 A. Burchard., B Sc, Ph D
 J. Colliander, BA, Ph D
 D. Lidar, M Sc, Ph D
 A. Nabutovsky, M Sc, Ph D
 M. Pugh, B Sc, Ph D
 J. Scherk, D Phil (UTS)
 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, Ms, Ph D (UTM)
 V. Blomer, B Sc, Ph D (UTM)
 A. Butscher, B Sc, Ph D (UTSC)
 K. Hori, B Sc, Ph D
 A. Peet, Ph D
 R. Rotman, BA, Ph D
 B. Virag, BA, Ph D (UTS)

Senior Lecturers

S. Abou-Ward, M Sc
 D. Burbulla, B Sc, B Ed, MA (APSC)
 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

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 also Page 21) 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

Associate Chair for Undergraduate Studies: Professor J.W. Lorimer, Sidney Smith Hall, 40 George Street, Room 6290 (416-978-5164)

Student Counselling: Bahen Building, Room 6290

Mathematics Aid Centres: Sidney Smith Hall, Room 1071; University College, Room UC48

Departmental Office: Sidney Smith Hall, Room 4072 (416-978-3323)

Mathematics Programs

Enrolment in the Mathematics programs requires completion of four courses; no minimum GPA is required.

Applied Mathematics (Science program)

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, CSC 148H1/150H1

Second Year:

MAT 257Y1, 267H1; CSC 260H1; STA 257H1

Third and Fourth Years:

1. APM 351Y1; MAT 327H1, 354H1, 347Y1, 357H1, 363H1; STA 347H1
2. At least 2 full courses chosen from: MAT 344H1, 454H1, 457Y1, 464H1, 477H1; STA 302H1, 352Y1, 438H1, 457H1; CSC 350H1, 351H1, 446H1, 456H1
3. Three courses from: APM 421H1, 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 CSC 107H1/108H1 before attempting CSC 148H1/150H1.

Mathematics (Science program)

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)

First Year:

MAT 157Y1, 240H1, 247H1

Second Year:

MAT 257Y1, 267H1

Third and Fourth Years:

1. MAT 327H1, 347Y1, 354H1, 357H1, 477H1
2. One of: APM 351Y1, MAT 457Y1
3. Three of: APM 461H1, MAT 309H1, 363H1 415H1/417H1, 454H1
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 140Y1 be taken in First Year; that CSC 148H1/150H1/260H1 and STA 257H1 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 CSC107H1/108H1 before attempting CSC148H1/150H1.

Major program:

(7 full courses or their equivalent)

First Year:

MAT 135Y1/136Y1/137Y1, 223H1

Second Year:

MAT 224H1/247H1, 235Y1/237Y1, 246H1/(CSC 236H1/240H1, PHL 245H1), MAT 244H1

NOTE:

MAT 224H1 may be taken in first year

Higher Years:

1. MAT 301H1, 334H1, PHL245H1
2. One half course or equivalent at the 200+level from: ACT, APM, MAT, STA
3. MAT401H1/402H1; one half course at 300+level from: at least APM, MAT, HPS390H1, 391H1, PSL431H1, 432H1, 433H1; PHL346H1, 349H1

Minor program:

(4 full courses or their equivalent)

1. MAT 135Y1/136Y1/137Y1, 235Y1/237Y1, 223H1, 224H1/244H1/APM236H1
2. One 300+-level full course or combination from: APM, MAT, including HPS 390H1, 391H1, PSL 431H1, 432H1, 433H1

Note: in all programs, higher levels courses within the same topic are acceptable substitutions.

Mathematics and Its Applications (Science program)

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 107H1/108H1, MAT 135Y1/136Y1/137Y1/157Y1 (MAT 137Y1 strongly recommended), 223H1/240H1

Second Year:

MAT 224H1/247H1, 235Y1/237Y1/257Y1 (MAT 237Y1 strongly recommended), MAT 246H1 (waived for students taking MAT 257Y1), MAT 244H1/267H1, STA257H1

Higher Years:

MAT 301H1, 334H1

Areas of Concentration

Teaching Concentration:

1. MAT329Y1
2. Two of :MAT 309H1, 315H1, 335H1, 337H1, 344H1, 363H1, 402H1
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. CSC207H1, 165H1, 258H1, 209H1; MAT344H1
2. Three of :APM 461H1; CSC 350H1, 351H1, 354H1, 363H1, 378H1, 438H1, 446H1, 456H1, 465H1, 487H1
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 140Y1 (in first year); APM 346H1/351Y1; AST 221H1, 222H1
2. Two of PHY 251H1, 252H1, 255H1, 256H1
3. Two of APM 421H1, 436H1, 441H1, 446H1; AST 320H1, 325H1; MAT 337H1; PHY 307H1, 309H1, 315H1, 351H1, 352H1, 353H1, 355H1, 357H1, 358H1

Probability/Statistics Concentration:

1. CSC 260H1/207H1, 350H1; APM 346H1/351Y1/462H1; MAT 337H1; STA 302H1, 347H1, 352Y1
2. Two of: STA 422H1, 437H1, 438H1, 442H1, 447H1, 457H1

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.

Mathematics

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, 223HI, 224HI

Second Year:

ECO206Y1, MAT237Y., STA257HI, 261HI

Higher Years:

APM346HI, APM462HI, 466HI, ECO358HI, MAT337HI, STA302HI/ECO327Y1, STA347HI, STA457HI

Two of: ECO359HI, MAT315HI, 334HI

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, 240HI, 247HI; PHL245HI

Higher Years:

1. PHL245HI (if not taken in First Year)
2. MAT 257Y1, 327HI, 347Y1, 354HI/357HI
3. PHL346HI/349HI, MAT309HI/PHL344HI/345HI
4. Four of: PHL 246HI, 346HI, 347HI, 349HI, 480HI
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, 240HI, 247HI; PHY 140Y1

Second Year:

MAT 257Y1, 267HI; PHY 225HI, 251HI, 252HI, 255HI, 256HI

Third Year:

APM 351Y1, MAT 327HI, 354HI, 357HI, 363HI; PHY 351HI, 352HI, 355HI

Fourth Year:

APM 421HI, 426HI; PHY 457HI; APM 446HI/PHY 459HI/460HI

Mathematics and Statistics: see Statistics

Applied Mathematics Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all APM courses are classified as Science courses (see page 25).

APM236HI 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: MAT223HI/240HI (Note: no waivers of prerequisites will be granted)

APM346HI 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, 244HI

APM351YI 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: MAT267HI

Co-requisite: MAT334HI/354HI

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.

APM421HI 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: (MAT224HI, 337HI)/357HI

APM426HI 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: MAT363HI

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/498YI/499YI**

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 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all MAT courses except MAT 123HI, 124HI and 133YI are classified as SCIENCE courses (see page 25).

SC1199HI/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 breadth requirement course; see page 45.

MAT123HI, 124HI

See below MAT 133Y1

MAT125HI, 126HI

See below MAT 135Y1

**MAT133YI 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 39L, 13T
for Commerce (B)**

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

Mathematics

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, I24HI, I25HI, I26HI, I33Y1, I36Y1, I37Y1, I57Y1

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, I24HI, I33Y1, I35Y1, I36Y1, I37Y1, I57Y1

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, I24HI, I33Y1, I35Y1, I36Y1, I37Y1

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, I24HI, I25HI, I26HI, I33Y1, I35Y1, I37Y1, I57Y1

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: MAT125HI, I26HI, I35Y1, I36Y1, I57Y1

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 and Poetry 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.

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. 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 $R^n \rightarrow R^m$. The determinant, classical adjoint, Cramer's Rule. Eigenvalues, eigenvectors, eigenspaces,

diagonalization. Function spaces and application to a system of linear differential equations.

Exclusion: MAT240H I

Prerequisite: MCB4U, MGA4U

MAT224H I 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 R^2 and R^3 .

Exclusion: MAT247H I

Prerequisite: MAT223H I/240H I

MAT235Y I 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: MAT237Y I, 257Y I

Prerequisite: MAT135Y I/136Y I/137Y I/157Y I

MAT237Y I Multivariable Calculus 78L

Sequences and series. Uniform convergence. Convergence of integrals. Elements of topology in R^2 and 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: MAT235Y I, 257Y I

Prerequisite: MAT137Y I/157Y I/135Y I (85%), 223H I/240H I

MAT240H I Algebra I 39L, 26T

A theoretical approach to: vector spaces over arbitrary fields including C, 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: MAT157Y I

MAT244H I Introduction to Ordinary Differential Equations 39L

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.

Exclusion: MAT267H I

Prerequisite: MAT135Y I/136Y I/137Y I/157Y I, 223H I/240H I

Co-requisite: MAT235Y I/237Y I

MAT246H I Concepts in Abstract Mathematics 39L (formerly MAT246Y I)

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: MAT157Y I, 246Y I

Prerequisite: MAT133Y I/135Y I/136Y I/137Y I, 223H I

MAT247H I 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: MAT240H I

Co-requisite: MAT157Y I

MAT257Y I Analysis II 78L, 52T

Topology of 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 R^n ; integration on manifolds; Stokes' theorem for differential forms and classical versions.

Prerequisite: MAT157Y I, 240H I, 247H I

MAT267H I Advanced Ordinary Differential Equations I 39L, 13T

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: MAT244H I

Prerequisite: MAT157Y I, 247H I

Co-requisite: MAT257Y I

MAT299Y I Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

300-Series Courses

MAT301H I 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: MAT347Y I

Prerequisite: MAT224H I, 235Y I/237Y I/257Y I

MAT309H I 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: CSC438H I

Prerequisite: MAT223H I/240H I, 235Y I/237Y I/257Y I

MAT315H I Introduction to Number Theory 39L

Elementary topics in number theory: arithmetic functions; polynomials over the residue classes modulo m , characters

Mathematics

on the residue classes modulo m ; quadratic reciprocity law, representation of numbers as sums of squares.

Prerequisite: MAT(235YI/237YI, 223HI/240HI)/257YI

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: MAT257YI/(237YI 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: MAT235YI/237YI/257YI

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: MAT137YI/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: MAT(223HI/240HI, (235YI/237YI, 246HI))/257YI

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 insolvability of the quintic.

Prerequisite: MAT247HI, 257YI

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: MAT247HI, 257YI

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: MAT247HI, 257YI, (327HI or 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/247HI, 237YI/257YI

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, 310YI, 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

MAT393YI/ Independent Work in Mathematics 394YI TBA

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 396HI/ 397HI TBA

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 45 for details.

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: MAT347YI

Prerequisite: MAT224HI, 235YI/237YI, 246HI/257YI

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/347YI

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: MAT347YI 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: MAT257YI, 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, 347YI

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: MAT347YI

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: MAT347YI

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: MAT347YI

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: MAT347YI, 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,

Mathematics

chaos. Elements of the calculus of variations. Hamiltonian systems. Analytic theory; singular points and series solution. Laplace transform.

Prerequisite: MAT267HI, 354HI, 357HI

MAT477HI Seminar in Mathematics TBA

Seminar in an advanced topic. Content will generally vary from year to year. (Student presentations will be required)

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

Microbiology: see Life Sciences: Microbiology

Molecular Genetics & Microbiology: see Life Sciences: Molecular Genetics & Microbiology

Modern Languages and Literatures

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

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 106YI

Higher Years:

1. SLA 206YI, 216YI, 306HI, 336HI
2. Two courses from: SLA 226HI, 346HI, 356HI, 406YI/406HI, 416YI, 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 100YI/220YI; SPA 319YI (for native/bilingual speakers of Spanish)

Second Year:

SPA 220YI/320YI; SPA 420HI (for speakers who have taken SPA 319YI in first year)

Third and Fourth Years:

1. SPA 320YI, 454HI
2. SPA 450HI or 452HI
3. SPA 420HI is recommended for students who start in SPA 100YI
4. SPA 420HI is required for students who start in SPA 220YI 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, IAS, 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 100YI/110YI).

Ukrainian (with French/German)

First Year:

SLA 108YI

Higher Years:

1. SLA 208YI, 218YI
2. Three courses, including at least one 400-series course, from: SLA 228HI, 238HI, 248HI, 253HI, 308YI, 318HI, 408HI, 418HI, 419YI, 428YI, 429HI, 438HI, 448HI, 458HI, 468HI. Courses in Ukrainian history may also be counted toward this programme.

Music

Given by Members of the Faculty of Music

Faculty: Music History and Culture

Professors Emeriti

J. Beckwith, CM, M Mus, D Mus
R. Falck, MFA, Ph D
A. Hughes, MA, D Phil (T)
M.R. Maniates, MA, Ph D (V)
T. McGee, MA, Ph D
C. Morey, MM, Ph D (T)

Professor

G. Averill, MA, Ph D

Associate Professors

W. Bowen, MA, Ph D (S)
R. Elliott, MA, Ph D
G.S. Johnston, MA, Ph D
G.G. Jones, MA, Ph D (U)
J. Kippen, Ph D (T)
M.A. Parker, MM, Ph D (M)

Assistant Professors

Celia Cain, AM, Ph D
J. Haines, MA, Ph D

Faculty: Musical Theory and Composition

Professors Emeriti

D. Beach, Mus M, Ph D
J. Beckwith, CM, M Mus, D Mus
W.J. Buczynski
G. Ciamaga, 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
J. Weinzweig, OC, MM, Mus D

Professors

K.N. Chan, Mus M, D Mus
J. Hawkins, MMA
C. Hatzis, M Mus, Ph D

Assistant Professor

R. McClelland, Ph D

Lecturers

J. Kruspe, Mus Bac
G. Kulesha
D. Patrick, Mus M
A. Rapoport, MA, Ph D
M. Sallmen, MA, Ph D
W. Wright, M Div

Instructors

L. Kuzmenko, Mus Bac

Faculty: Performance

Associate Professors

G. MacKay, M.Mus, D.M.
S. Ralls, MA, ARAM
D. Rao, Mus M

Lecturers

R. Armenian, Hon Doc, OC
J. Reynolds, M Mus, Ph D

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 or telephone 416-978-3744.

Faculty of Music Representative: Professor J. Kippen, Co-ordinator (416-978-3750)

Enquiries: Admissions Officer, Edward Johnson Building, Room 145 (416-978-3741); e-mail: music.artsci@utoronto.ca.

Music Programs

Enrolment in HMU and TMU courses, and, therefore, in the Specialist and Major programs, is limited to students who pass the audition-interview, held on Tuesday, September 5, 2006. Students are required to complete and submit the Student Profile available on-line at www.music.utoronto.ca prior to August 23, 2006. 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 31 for Key to Course Descriptions.)

For Distribution Requirement purposes (see page 25), 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

MUS120Y1 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 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 7, 2006 from 6-10 p.m. in the Edward Johnson Building. The audition will be 10 minutes in length.

Exclusion: MUS291Y1

MUS209HI Performing Arts of South Asia 26L

Survey of classical, devotional, folk and popular musics and dances from the Indian subcontinent and their toll in the sociocultural life of the region. No prior background in music or ability to read music is required.

Exclusion: HMU111HI

MUS211HI The World of Popular Music 26L

Examination of selected world popular music. Explores the roles of the transnational recording industry, media, festivals, and local institutions and companies, in shaping these musics, culture, and ethnic and regional identity at home and in diaspora. No prior background in music or ability to read music is required.

Exclusion: HMU111HI

Music

MUS220Y1 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 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 7, 2006 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.

Exclusion: HMU111HI

MUS302HI Symphony 26L

Masterpieces in the symphonic genre from the eighteenth to the twentieth centuries. No prior background in music or ability to read music is required.

Exclusion: HMU111HI

MUS308HI Handel 26L

Handel's life and music will be examined in its cultural contexts. Exclusion: HMU111HI.

ABS330Y1 Aboriginal Music: Technical and Theoretical Aspects

See "Aboriginal Studies"

Future Offerings:

- MUS200HI Music of the World's Peoples**
 - MUS202HI Beethoven**
 - MUS204HI The Age of Bach**
 - MUS205HI Mozart**
 - MUS206HI The World of Opera**
 - MUS207HI Music for the Orchestra**
 - MUS208HI Medieval and Renaissance Masterpieces**
 - MUS225HI Music: Islamic World**
 - MUS230HI Music of the 1960's**
 - MUS300HI Music, Media & Technology**
 - MUS303HI Music in the Contemporary World**
 - MUS306HI Popular Music in North America**
 - MUS315HI Vernacular Music in North America**
 - MUS325HI The Age of Haydn & Mozart**
 - MUS408HI Wagner**
-

HMU, TMU Faculty of Music Courses

HMU111HI 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: HMU111HI

Note

HMU 111HI 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.

Faculty

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

Professor and Chair

J.A. Reilly, MA, Ph D (U)

Professors

R.J. Leprohon, MA, Ph D
M.E. Subtelny, BA, Ph D
M. Tavakoli-Targhi, MA, Ph D

Associate Professors

H. Fox, MS, Ph D
G. Frame, MA, Ph D
D.R. Frayne, MA, Ph D
K. Goebs, MA, Ph D
S. Green, MA, Ph D
K.A. Grzymski, MA, Ph D
S.E. Günther, MA, Ph D
A. Harrak, 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
H. Najman, MA, Ph D
L.S. Northrup, MA, Ph D
V. Ostapchuk, BA, Ph D

Assistant Professors

J.P. Hanssen, BA, D. Phil
R.D. Holmstedt, MA, Ph D
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 for more detailed information about courses and programs.

Undergraduate Enquiries: 4 Bancroft Avenue, Room 200, (416-978-3306)

Near and Middle Eastern Civilizations

Near and Middle Eastern Civilizations Programs

Enrolment in NMC programs is open to anyone who has completed four courses; no minimum GPA required.

Near and Middle Eastern Civilizations (Arts program)

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 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. One of the four Language courses could also be taken in the First Year 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 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 courses.

Near and Middle Eastern Civilizations Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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; see page 45.

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.

Language Courses

Note

The Department reserves the right to place students in the NMC language course best suited to their linguistic preparation.

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

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. Priority enrollment will be given to declared NMC majors/specialists.

Prerequisite: NML210Y1/NMC210Y1

Exclusion: NMC310Y1

NML410Y1 Advanced Standard Arabic 78S (formerly NMC410Y1)

Connected passages of Arabic texts drawn from both classical and modern times are studied in detail.

Exclusion: Native users of Arabic need permission of instructor

Prerequisite: Two years of Arabic

Exclusion: NMC410Y1

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NML411HI Readings in Arabic Newspapers 26S
(formerly NMC411HI)

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.

Prerequisite: NML310Y1/NMC310Y1 or adequate reading knowledge of Arabic

Exclusion: NMC411HI

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

NML413HI Islamic Thought in Mediaeval Arabic Sources 26S
(formerly NMC413HI)

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: NMC413HI

NML414HI 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.

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

NML320HI Intermediate Aramaic: Targum 39S
(formerly NMC415HI)

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/NMC415HI

NML420Y1 The Jerusalem Talmud: 52S
Jewish Western Aramaic
(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

Exclusion: NMC416Y1

NML421Y1 Classical Syriac 78S
(formerly NMC418Y1)

(Offered in alternate years)

Prerequisite: NMC315Y1/NML220Y1

Exclusion: NMC418Y1

Coptic

NML230HI 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

NML231HI Elementary Coptic II 26L

A continuation of NML230HI, Elementary Coptic I.

(Ancient) Egyptian

NML240Y1 Introduction to Middle Egyptian 78S
(formerly NMC320Y1)

Grammar and reading of selected hieroglyphic texts.

Exclusion: NMC320Y1

NML241Y1 Ancient Egyptian Iconography 52S
(formerly NMC321HI)

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: NMC320Y1/NML240Y1

Exclusion: NMC321H

NML340Y1 Intermediate Egyptian 78S
(formerly NMC420Y1)

Middle Egyptian texts.

Prerequisite: NMC320Y1/NML240Y1

Exclusion: NMC420Y1Y

Hebrew

NML150Y1 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

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NML155HI Elementary Modern Hebrew I (formerly NMC236HI) 39L, 26P
 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/NMC236HI

NML156HI Elementary Modern Hebrew II (formerly NMC237HI) 39L, 26P
 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/NMC236HI or permission of instructor
 Exclusion: Those who have completed Grade 4 Hebrew (or Grade 2 in Israel), NMC136Y/NMC237HI

NML250YI Intermediate Biblical Hebrew (formerly NMC330YI) 78S
 Study of Hebrew grammar, providing a continuation of NMC230Y/NML150YI. 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/NMC230YI/NML150YI
 Exclusion: NMC330YI

NML251YI Intermediate Biblical Hebrew: Pentateuch (formerly NMC333YI) 78S
 Study of Hebrew grammar, providing a continuation of NMC230YI/NML150YI. 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/NMC230YI/NML150YI
 Exclusion: NMC333YI

NML255YI Intermediate Modern Hebrew (formerly NMC236HI, NMC237HI/ NMC336YI) 78S
 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), NMC236HI/237HI/336YI
 Prerequisite: NMC136YI/NML156HI

NML350YI Advanced Biblical Hebrew (formerly NMC430HI/YI) 26L
 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: NMC430YI

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: NMC230YI/NML150YI

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: NMC230YI/NML150YI

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: RLG325HI
 Recommended Preparation: NMC150HI/151HI/280HI/280YI

NML355YI Advanced Modern Hebrew (formerly NMC336HI/337HI/434YI) 52S
 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 (formerly NMC334YI) 52S
 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/NML150YI/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: NML250YI/255YI/NMC330YI/333YI/336Y

NML358HI Mishnah and Tosefta (formerly NMC331HI) 26L
 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

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: NML250YI/251YI/255YI/NMC330YI/333YI/336YI

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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: Permission of instructor

Recommended preparation: NMC336Y1/330Y1/333Y1/334Y1/
NML250Y1/NML251Y1/NML357HI

Exclusion: NMC432Y1/NMC432HI

NML453HI Prophetic Literature 13S

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.

Prerequisite: Advanced reading knowledge of Hebrew/Aramaic.

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

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

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/NML270YI or adequate reading knowledge of Turkish

Exclusion: NMC345YI

Literature in Translation Courses

NMC150HI Hebrew Bible and Ancient Jewish Literature 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. Offered on a one-time only basis in 2006-07.

NMC251HI Ancient Egyptian Literature 26S
in Translation

Explores a variety of different genres of ancient Egyptian literature, including wisdom literature, funerary texts, poetry, stories and other literary texts.

NMC255HI Arabic Literature in Translation 26S

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 52

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

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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 (formerly NMC257YI) 26L

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 (formerly NMC258YI) 26

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 5th and the 19th 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.

NMC350HI Syriac Literature in Translation 52L

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: NMC101YI

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

NMC260YI 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 Palestine in the Biblical Period I: The Bronze Ages (formerly NMC361YI) 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: NMC260YI
Exclusion: NMC361YI

NMC361HI The Archaeology of the Biblical World II: The Iron Age (formerly NMC361YI) 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: NMC260YI
Exclusion: NMC361YI

NMC362YI 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: NMC260YI

NMC363HI The Archaeology of Historical Mesopotamia I 3000-1600 BCE (Formerly NMC363YI) 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: NMC363YI
Prerequisite: NMC260YI

NMC364HI The Archaeology of Historical Mesopotamia II 1600-330 BCE (Formerly NMC363YI) 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: NMC363YI
Prerequisite: NMC260YI

NMC366YI 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.

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NMC369YI 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: NMC260YI
Exclusion: NMC369HI

NMC461YI Problems in the Archaeology of the Ancient Near East 52S

Prerequisite: 1.5 courses from NMC361YI/362YI/363HI/364H/363Y/465HI/466HI; two courses from NMC370YI/371YI/372YI/343H/344H/346H/347H

NMC462YI 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 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

History Courses

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.

NMC272HI Byzantine Empire and its Civilization 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.

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 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: NMC275YI

Near and Middle Eastern Civilizations

NMC276YI 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 (formerly NMC 278YI) 26L

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: NMC278YI

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.

NMC329HI Dead Sea Scrolls 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: NMC331H, last offered in 2001-02 in Hebrew language

NMC343HI History of Ancient Egypt I: Predynastic Period to Middle Kingdom (formerly NMC371YI) 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: NMC101YI may not be taken in the same year, NMC371YI

Recommended preparation: NMC101YI

NMC344HI History of Ancient Egypt II: Second Intermediate Period to Greco-Roman Period (formerly NMC371YI) 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: NMC101YI may not be taken in the same year, NMC371YI

Recommended preparation: NMC101YI

NMC346HI Ancient Mesopotamia I: Sumerians and Akkadians (formerly NMC372YI) 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: NMC101YI may not be taken in the same year, NMC372Y

Recommended preparation: NMC101YI

NMC347HI Ancient Mesopotamia II: Assyrians and Babylonians (formerly NMC372YI) 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: NMC101YI may not be taken in the same year, NMC372Y

Recommended preparation: NMC101YI

NMC348HI History of Mediaeval Iran I: The Legacy of Ancient Iran (formerly NMC375YI) 26L

The history and cultural achievements of the ancient Persian empires before the Arab invasions and the advent of Islam.

Recommended preparation: NMC 274Y/NMC274H

Exclusion: NMC375YI

NMC349HI History of Mediaeval Iran II: The Samanids to the Safavids (formerly NMC375YI) 26L

The Islamic conquests of the 7th century CE, and the transformation of Persian culture in the renaissance of the 10th century. Survey of the major dynasties, including the Samanids, Saljuqs, and Timurids, terminating with the Safavids in the 16th century.

Recommended preparation: NMC 274Y/NMC274H

Exclusion: NMC375YI

NMC353HI Pre-Ottoman Anatolia and the Ottoman State 26L

Surveying the Anatolian Seljuk and early Ottoman Sultanates prior to the foundation of the classical Ottoman Empire in the reign of Mehmed the Conqueror. Topics include the Turkification of Asia Minor; roles of nomads and frontiers in the state foundation; relations of Turkish and non-Turkish societies; and economic factors.

Prerequisites: NMC273H/273Y/274H/274Y

NMC 355HI 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

Near and Middle Eastern Civilizations

transformations to state laws and policies, Mediterranean capitalism and the rise of sectarianism and nationalism in the Middle East.

Recommended preparation: NMC276Y1/278H1/278Y1/353H1/377H1/377Y1/378H1/378Y1

NMC357Y1 Mass Media and the Middle East 52L

This course examines a) the transformations of Middle Eastern societies in the context of the development of communication technologies and media cultures; and b) Western media constructions of the Middle East and its diasporas in the West. (Offered in alternate years)

NMC359H1 Iranian Constitutional Revolution 26L (formerly NMC359Y1)

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: NMC373H1 may not be taken in the same year; NMC359Y1

Recommended preparation: NMC278H1/278Y1

NMC370Y1 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: NMC101Y1 may not be taken in the same year
Recommended preparation: NMC101Y1

NMC373H1 Turkey and Iran in the 20th Century 26L (formerly NMC373Y1)

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: NMC278H1/278Y1

Exclusion: NMC359H1 may not be taken in the same year; NMC373Y1

NMC374H1 History of Islamic Egypt 26L (formerly NMC374Y1)

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: NMC273Y1

Exclusion: NMC374Y1

NMC376H1 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: NMC273Y1

NMC377H1 The Ottoman Empire to 1800 26L (formerly NMC377Y)

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: NMC353H1

Exclusion: NMC377Y1

NMC378H1 Themes In Modern Arab History 26L (formerly NMC378Y1)

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: NMC278H1/278Y1

Exclusion: NMC378Y1

NMC471H1 Topics in Early & Medieval Islamic History 26S

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

NMC472H1 Theory & Method in Middle East Studies 26S

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

NMC473H1 Intellectuals of the Arab World in the 20th Century 26L (formerly NMC385Y1/NMC355H1)

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: NMC276Y1/278H1/278Y1/353H1/377H1/377Y1/378H1/378Y1

Exclusion: NMC385Y1/NMC355H1 from 2005-06

NMC475H1 Orientalism & Occidentalism 13S

This course probes the contemporaneous formation of modern Oriental Studies in Europe and the emergence of discourses on Europe (Ifraj/Faraj) 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.

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NMC477YI Nationalism, Ethnicity and Minority Rights in the Middle East 26S
 This course examines the formation of nations and nation-states, national and ethnic conflicts, self-determination, conflict resolution, and national and ethnic minority rights.

NMC 478HI Readings in the Modern History of Arab Societies 26S
 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 (formerly NMC479YI) 52S
 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

Religion and Philosophy Courses

NMC185HI Introduction to the Religion of Islam (formerly NMC185YI) 26L
 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 (formerly NMC252HI) 26L
 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 (formerly NMC285YI) 26L
 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/185YI/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.
 Prerequisite: NMC285HI
 Exclusion: NMC285YI/RLG351HI

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/YIY 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

NMC381YI Modern Islamic Thought 52L
 This course covers the intellectual activity of Muslim scholars and thinkers in recent centuries. The main focus is writings on and about the Qur'an in an attempt to refine our thinking about the problem of modernity and its meanings in an Islamicate context. (Offered in alternate years)
 Recommended preparation: NMC185HI/185YI/RLG204YI

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/185YI/RLG204YI

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/185YI/RLG204YI
 Exclusion: NMC386HI

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NMC389HI Shi'i Islam II 26L
(formerly NMC386HI)

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: NMC185H/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 26L
(formerly NMC484YI)

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

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 45 for details.

NMC398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

NMC495YI Independent Studies

A scholarly project chosen by the student, approved by the Department and supervised by one of the instructors. See Department Handbook for further information.

Prerequisite: Permission of Department

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:
Neuroscience**

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)
- G. MacDonald, MA, M Phil., Ph D (Writing Centre)
- R.G. Wilson, Ph D (Human Biology)

Lecturers

- D. Knott, MA, MTS (Paradigms and Archetypes/Writing Centre)
- L. Manicom, MA (Women's Studies/Writing Centre)

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 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: Life Sciences (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)

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, B or C
4. A combination of two language full course equivalents as outlined in Group D
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

Major program:

(6 full courses or their equivalent)

Core course requirements:

NEW 150Y1 (recommended in first year), NEW 450H1 (to be taken in the final year)

Other requirements:

1. Three full course equivalents from Group A, one of which must be NEW 450H1

2. One full course equivalent from each of Groups B and C, 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 C or NEW 280YI or NEW 380YI
4. At least one full course equivalent must be a 300+series course from Groups A and/or B

Group A:

ANT325YI; ENG278YI; FRE431HI; HIS295HI, 383HI, 396YI, 457YI; JAP256HI; JN1388YI; NEW252HI, 296YI, 322YI, 352YI, 450HI; NMC371YI, 374YI; POL301YI, 488YI, 489HI; SMC209HI; an independent studies course approved by the Program Committee

Group B:

ENG253YI, 277YI, FRE332HI; HIS 294YI, 296YI, 305HI, 370HI, 393HI, 408YI, 446YI, 456YI, 474HI, 475HI, 476YI; INI327Y; NEW223YI, 224YI, 324YI, 325HI; POL358HI, 403HI; WGS 435HI

Group C:

ANT 200YI, 204YI, 343YI, 349HI, 367YI, 410HI, 426HI, 454HI, 455YI; HIS104YI, 232YI; JPE400HI; MUS200HI; NEW 326YI; NMC 185YI, 376YI; POL 201Y, 417YI, 418YI, 445YI, 479HI; SOC 312YI; UNI304HI; WGS 368HI, 369YI, 425YI

Group D:

(NEW280YI, 380YI)/(FSL161YI/181YI, 261YI/281YI/ 361YI/ 362YI/381YI)/(NMC210YI, 310YI)/(PRT100YI/ 110YI, 220YI); or two courses in a major African language approved by the Program Committee

Caribbean Studies (Arts program)

Consult Program Director, Dr.A. Itwaru, New College, 416-978-8966. For general enquiries call 416-978-5404.

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

Group A:

ANT 426HI; ENG 253YI; HIS 106YI, 294YI, 295HI, 333YI, 359HI, 370HI, 394HI, 456YI, 494YI; NEW 150YI, 223YI, 240YI, 325HI, 326YI, 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

Equity Studies (Arts program)

Consult Program Co-ordinator, Dr. J. Larkin, 416-978-8282. For general inquiries call 416-978-5404.

Enrolment in this program is open to students who have completed four courses; no minimum GPA required.

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 341HI, 342HI, 343HI, 344YI, 349HI, 441HI, 442HI, 449HI

Group A: Gender

CLA 219HI, 220HI; EAS 452HI, 453HI; ENG 233YI, 307HI, 309HI, 468HI; FAH 444HI; FCS 294HI, 497HI; FRE 304HI, 404HI; GER 421HI; GGR 327HI; HIS 202HI, 245YI, 306YI, 352HI, 354YI; 363HI, 366YI, 395YI, 418HI, 431HI, 439HI, 446YI, 452HI, 481HI, 483YI; 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, 453HI; 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, 369YI, 372HI, 373HI, 374HI, 425YI, 460YI, 465HI, 470YI

Group B: Race, Creed, Ethnicity

ANT 204YI, 325YI, 343YI, 344YI, 367YI, 426HI, 446YI, 448HI, 453HI; ENG 253YI, 256YI, 277YI, 279YI; HIS 208YI, 294YI, 295HI, 303YI, 312HI; 338YI, 341YI, 370HI, 383HI, 384HI, 393HI, 394HI, 396YI, 408YI, 429YI, 442YI, 456YI,

New College

474HI, 475HI, 476YI, 494YI; INI 327YI; ITA493HI; JAP 256HI; NEW 150YI, 223YI, 224YI, 322YI, 324YI, 326YI, 424YI; NMC 276YI, 384YI, 477YI, 484HI; POL 304YI, 321YI, 425HI; RLG 220HI, 236HI, 237HI, 315HI, 344YI; SOC 210YI, 330YI, UNI 304HI

Group C: Sexual Diversities

ENG 273YI, 290YI; HIS 430YI; POL 315HI; PHL 243HI; UNI 255HI, 256HI, 354HI, 355HI, 365HI, 375HI, 455HI, 475HI; WGS 374HI

Group D: General Equity

ABS 201YI, 250HI, 300YI, 301YI, 320YI, 350YI, 351HI, 352HI, 402HI, 405YI; ANT 329YI, 348YI, 366YI, 425HI, 447HI, 452HI; ECO 239YI, 332HI, 339YI, 340HI, 369YI, 424HI, 425HI; ENG 254YI; GGR 362HI, 363HI; HIS 106YI, 313YI, 367HI; 369YI, 395YI, 459HI, 472HI; HPS 324HI; INI 494HI; JAG 321HI; JFP 450HI; PHL 281YI, 384HI; POL 216HI, 344YI, 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 Dr. Ann Yeoman, New College, 416-978-8659. For general enquiries call 416-978-5404.

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
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, 416-978-8250 or the Program Office, 416-978-5404.

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; 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)

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. NEW114YI
2. Three approved courses from Group A (below)

Note: Some courses may be offered in alternate years.

Group A:

EAS 331YI, 368YI, 468YI; ENG 253YI; HIS 282YI, 364HI, 381HI, 382HI, 386YI, 394HI, 470HI, 480HI, 481HI; HUM 101YI; MUS 200HI; NEW 211YI, 212YI, 213YI, 214YI, 215HI, 216HI, 217HI, 224YI, 306HI, 308HI, 311YI, 312YI, 324YI, 326YI, 413HI, 414HI; NMC 185YI; POL 201YI, 357YI, 417YI, 445YI; RLG 100YI, 205YI, 206YI, 207HI, 209HI, 280YI, 361HI, 363HI, 365HI, 366HI; WGS 368HI, 425YI; or other courses with the approval of the Director of the SAS program

Women's Studies: see Women and Gender Studies

New College Courses

See page 31 for Key to Course Descriptions..

For Distribution Requirement purposes (see page 25), all NEW courses are classified as HUMANITIES courses except NEW 240YI, which counts as a SOCIAL SCIENCE or HUMANITIES course.

African Studies Courses

NEW150YI 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.

NEW252HI African Systems of Thought 26L
(formerly JAP256HI)

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: JAP256HI/JAP356HI

NEW280YI 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)

NEW296YI 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: HIS296YI

NEW322YI 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)

NEW352YI African Cinemas 26L, 78P
(formerly JN1388YI)

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/IN1483HI

NEW380YI 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: NEW280YI

NEW450HI 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.

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: NEW224YI

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)

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: NEW324YI 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 324YI

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: NEW324YI

NEW426YI Special Topics in Caribbean Studies 78S

An upper level seminar. Topics vary from year to year, depending on the instructor.

Prerequisite: NEW 324YI

Equity Studies Courses

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.

**NEW341HI/ Special Topics in Equity Studies 26S
342HI**

An upper level seminar dealing with topics related to Equity Studies.

Prerequisite: NEW240YI 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

NEW449HI Advanced Topics in Disability Studies 26S

An advanced level seminar course. Topics vary from year to year.

Prerequisite: NEW240YI/366HI/SOC373HI/374HI

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. Topic for 2006-2007: Theories & Applications of Buddhist Psychology.

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 2006-2007: C.J. Jung’s Seminars on Nietzsche’s Thus Spake Zarathustra.

Prerequisite: Permission of instructor

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 45 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

NEW213Y1Y 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.

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.

NEW215HI 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).

NEW216HI 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. (Taught in the summer program only).

NEW217HI 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. (Taught in the summer program only).

NEW306HI 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.

NEW308HI 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

NEW 413HI/ 414HI 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

Paradigms & Archetypes: see New College

Peace & Conflict Studies: see University College

Pharmacology: see Life Sciences: Pharmacology

Pharmaceutical Chemistry: see Life Sciences: Pharmaceutical Chemistry

Philosophy

Faculty

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. Ferguson, MA, Ph D (U)
D. Goldstick, BA, D Phil
A. Gombay, MA, B Phil (UTM)
W.C. Graham, MA, Ph D (S)
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)
J. Owens, MSD, FRSC (SM) (obiit)
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 (S)
J.T. Stevenson, MA (U)
M.T. Thornton, B Phil, MA, Ph D (V)
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)

Professor and Associate Chair (Undergraduate)

D.L. Black, MA, Ph D (SM)

Professor and Associate Chair (Graduate)

J.R. Brown, MA, Ph D

University Professors

L.W. Sumner, MA, Ph D, FRSC

Professors

D.P.H. Allen, MA, B Phil, D Phil (T)
J. Boyle, BA, Ph D (SM)
F.A. Cunningham, MA, Ph D, FRSC
D. Dyzenhaus, D Phil, FRSC
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.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)
D. Raffman, BA, Ph D (UTM)
A. Ripstein, MA, Ph D
W.E. Seager, MA, Ph D (S)
V. Shen, MA, MA, Ph D
K. Shun, BPhil, MPhil, Ph D (S)
I. Leman Stefanovic, MA, Ph D (SM)
E. Thompson, MA, Ph D (U)
A.I.F. Urquhart, MA, Ph D
J.E. Whiting, BA, MA, Ph D

Associate Professors

R. Barney, BA, Ph D
P. Clark, BA, Ph D (UTM)
R. Comay, MA, Ph D (V)
P. Franks, MA Ph D (UTM)
J. Heath, MA, Ph D (U)
P. Kremer, BSc, PhD (S)
L. Lange, MA, Ph D (S)
A. Mullin, Ph D (UTM)
M. Rozemond, Kand., Ph D (UTM)
S.A. Sedivy, BA, Ph D (S)
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, BA, MA, Ph D (S)
B. Hellie, BA, Ph D (S)
M.T. Lin, BA, Ph D (S)
S.R. Moreau, BA, 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. Wilson, BA, Ph D (S)

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 D.L. Black, 215 Huron Street, Room 902 (416-978-3314), undergrad.phil@utoronto.ca

Undergraduate Counsellor:
Ms. Alisa Rim, 215 Huron Street, Room 903 (416-978-3314), alisa.rim@utoronto.ca

Website:
<http://philosophy.utoronto.ca>

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 (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.

Philosophy

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)

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)

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 100HI

Higher Years:

1. HPS 250HI, PHL 232HI, PHL 245HI, HPS, 350HI, PHL 355HI
2. One of HPS 322HI/PHL 346HI/356HI/PHL 357HI
3. One of PHL 331HI/PHL 332HI
4. 4 to 5.5 additional full courses in Philosophy (depending on whether PHL 100Y1 and HPS 100HI are taken in first year). It is highly recommended that these courses include the following: HPS210HI, HPS211HI, PHL 210Y1, PHL 246HI, one of PHL 415HI or 482HI. (For the purposes of this requirement, HPS 210HI and HPS 211HI are counted as Philosophy courses).

Philosophy and Sociology (Arts program)

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 200HI, 202HI, 203Y1, and 204HI. 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 200HI, 202HI, 203Y1, 204HI, 300HI, 376HI, 377HI, 387HI, 401Y1
2. An additional 1.0 courses in a 200+ level SOC course related to Philosophy

Bioethics (Arts program)

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 380HI, 381HI, 382HI, 383HI, 384HI, 413HI, 470HI
3. PHL 275HI, 375HI/ 407HI
4. PHL 265HI/271HI/365HI/370HI/412HI/483HI
5. One full course from PHL 232HI, 240HI, 246HI, 331HI, 332HI, 340HI, 341HI, 355HI, 357HI, 404HI, 405HI, 406HI, 415HI, 482HI, HPS 250HI.
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 275HI, 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 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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 45.

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

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

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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: 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 45 for details.

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: PHL200Y I
- 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: PHL200Y I
- UNI302HI Bases of Cognition 39L**
See "University College Courses
- PHL303HI Plato 39L**
Selected metaphysical, epistemological, and ethical themes in Plato's dialogues.
Prerequisite: PHL200Y I
- PHL304HI Aristotle 39L**
Selected anthropological, ethical and metaphysical themes in the works of Aristotle.
Prerequisite: PHL200Y I
- 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: PHL200Y I/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: PHL200Y I/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: PHL200Y I/205HI/206HI
- PHL310HI The Rationalists 39L**
Central philosophical problems in philosophers such as Descartes, Spinoza, Leibniz, and their contemporaries.
Prerequisite: PHL210Y I
- PHL311HI The Empiricists 39L**
Central philosophical problems in philosophers such as Locke, Berkeley, Hume, and their contemporaries.
Prerequisite: PHL210Y I
- PHL312HI Kant 39L**
A systematic study of *The Critique of Pure Reason*.
Prerequisite: PHL210Y I
- 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 200Y I
- 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: PHL210Y I/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
- PHL325HI The Analytic Tradition 39L**
Analytic philosophy up to the present day. Authors from Frege and Russell to Quine and Kripke.
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 210Y I/232HI/240HI
- 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 330Y I

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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.
Prerequisite: PHL265HI/POL200YI

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
(formerly PHL278HI)**

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
(formerly PHL288HI)**

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
(formerly PHL296HI)**

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., horizontal or vertical integration, public or private ownership.

Prerequisite: PHL265HI/275HI

Exclusion: PHL296HI

PHL398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

400-SERIES COURSES

Notes

1. The general prerequisite for all 400-level courses is nine half-courses. 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

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courses requires the permission of the instructor and the Department in addition to the completion of the prerequisites indicated below.

3. Individual Studies courses (PHL490Y1, 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 200Y1		
PHL401HI	Seminar in the History of Philosophy	39S
Advanced study of some of the principal figures in a particular historical, philosophical tradition. Prerequisite: PHL 200Y1/210Y1		
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 210Y1		
PHL403HI	Seminar in 19th-Century Philosophy	39S
Advanced discussion of the principal figures and themes in 19th century philosophy. Prerequisite: PHL 210Y1/217HI/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 250Y1		
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/281Y1		
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		
UNI450HI	Advanced Cognitive Science	26S
See "University College Courses"		
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 281Y1 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: PHL200Y1 and permission of the instructor and Department		
PHL472HI	Advanced Topics in Medieval Philosophy	39S
Prerequisite: PHL 200Y1/205HI/ 206HI and permission of the instructor and Department		
PHL473HI	Advanced Topics in Modern Philosophy	39S
Prerequisite: PHL210Y1 and permission of the instructor and Department		
PHL475HI	Advanced Topics in Moral Philosophy	39S
Prerequisite: PHL275HI and permission of the instructor and Department		
PHL476HI	Advanced Topics in Epistemology	39S
Prerequisite: PHL232HI and permission of the instructor and Department		
PHL477HI	Advanced Topics in Metaphysics	39S
Prerequisite: PHL232HI and permission of the instructor and Department		

PHL478HI	Advanced Topics in Philosophy of Religion	39S
Prerequisite: PHL235HI/335HI and permission of the instructor and Department		
PHL479HI	Advanced Topics in Philosophy of Mind	39S
Prerequisite: UNI250Y1/PHL240HI/340HI/ 341HI/342HI and permission of the instructor and Department		
PHL480HI	Advanced Topics in Logic	39S
Prerequisite: Two of PHL344HI-349HI and permission of the instructor and Department		
PHL481HI	Advanced Topics in the Philosophy of Language	39S
Prerequisite: PHL351HI and permission of the instructor and Department		
PHL482HI	Advanced Topics in Philosophy of Natural Science	39S
Prerequisite: One of PHL355HI – 357HI or HPS 250HI, and permission of the instructor and Department		
PHL483HI	Advanced Topics in Social and Political Philosophy	39S
Prerequisite: PHL265HI and permission of the instructor and Department		
PHL484HI	Advanced Topics in the Philosophy of Law	39S
Prerequisite: PHL271HI and permission of the instructor and Department		
PHL485HI	Advanced Topics in Aesthetics	39S
Prerequisite: PHL285HI/PHL385HI and permission of the instructor and Department		
PHL486HI	Advanced Topics in Philosophy of History	39S
Prerequisite: PHL362HI and permission of the instructor and Department		
PHL487HI/ 488HI/ 489HI	Advanced Topics in Philosophy	TBA
Prerequisite: Permission of the instructor and Department		
PHL490YI	Individual Studies (formerly PHL390YI)	TBA
PHL495HI	Individual Studies (formerly PHL395HI)	TBA
PHL496HI	Individual Studies (formerly PHL396HI)	TBA
PHL 497HI	Individual Studies (formerly PHL397HI)	TBA
PHL 498HI	Individual Studies (formerly PHL398HI)	TBA
PHL 499HI	Individual Studies (formerly PHL399HI)	TBA

Physical Education and Health

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.

PHE110H1 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
 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 (S)
 J.V. Iribarne, Dr In Chem
 D.G. Ivey, MA, Ph D
 A.E. Jacobs, M Sc, Ph D (S)
 A.W. Key, MA, D Phil (I)
 J.D. King, BA, D Phil (S)
 P.P. Kronberg, M Sc, Ph D, D Sc †
 R. List, Dipl Phys ETH, Dr Sc Nat, FRSC
 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
 P.J. O'Donnell, B Sc, Ph D (S)
 D.A.L. Paul, BA, Ph D
 J.M. Perz, MA Sc, Ph D (S)
 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 Interim 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
 R.J. Birgeneau, Ph D, FRSC
 M.J. Bronskill, M Sc, Ph D, FCCPM †
 D.J. Donaldson, BSc, Ph D †
 J.R. Drummond, MA, D Phil
 D.J. Dunlop, MA, Ph D, FRSC (UTM)
 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
 L. Kofman, B Sc, Ph D †
 M.J.G. Lee, MA, Ph D (S)
 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
 N. Murray, Ph D †
 K.H. Norwich, M Sc, MD, 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)
 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
 P. Krieger, M Sc, Ph D
 P.J. Kushner, B Sc, M Sc, PhD
 H-K. Lo, Ph D
 R.K. Logan, B Sc, Ph D (N)
 R.S. Marjoribanks, MS, Ph D
 G.W.K. Moore, B Sc, Ph D (UTM)
 S. Morris, M Sc, Ph D
 B. Netterfield, BS, Ph D
 U-L. Pen, M Sc, Ph D †
 E. Poppitz, Ph D
 A.M. Steinberg, MA, Ph D
 K. Strong, B Sc, D Phil
 A.C. Thompson, BS, Ph D †
 J.T. Wei, MS, Ph D

Assistant Professors

V. Barzda, M Sc, Ph D (UTM)
 K. Hori, B Sc, Ph D
 D.B.A. Jones, AB, SM, Ph D
 H-Y. Kee, MS, Ph D
 Y.J. Kim, BS, Ph D
 D. Lidar, B Sc, PhD †
 A. Paramekanti, B Tech, Ph D
 A. Peet, B Sc, Ph D
 P. Savard, M Sc, Ph D

Physics

S. Stanley, B Sc, Ph D
R. Teuscher, M Sc, Ph D †
J. Thywissen, MS, Ph D

Senior Lecturers

D.M. Harrison, M Sc, Ph D
J.M. Pitre, M Sc, Ph D (SM)
R.M. Serbanescu, M Sc, Ph D

Lecturers

V.B. Deyirmenjian, B Sc, Ph D
J. Harlow, B Sc, PhD

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. The Nortel Applied Physics Laboratory is an integral part of the Applied Physics 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 17 and www.peyonline.com) is available to eligible, full-time Arts & Science Specialist students after their second year of study.

Early Teacher Project: The purpose of the Early Teacher Project is to encourage the best physical and mathematical sciences 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/ for further details.

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

Enquiries:

Undergraduate Office, Room 301, McLennan Physical Laboratories (416-978-7057/5219)

Web site: <http://www.physics.utoronto.ca>

Physics Programs

Enrollment 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)

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, 223HI; PHY 140Y1

Second Year:

MAT 235Y1/237Y1, 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, 499HI
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 150Y1; CHM (138HI, 139HI)/151Y1; MAT 135Y1/137Y1; PHY 138Y1/140Y1 (PHY 140Y1 recommended)

Second Year:

BCH 210HI; BIO 250Y1; CHM 247HI; MAT 235Y1/237Y1, 244HI; PHY 251HI

First or Second Year:

MAT 223HI

Third Year:

JBO 302Y1; PHY 225HI, 252HI, 255HI, 256HI, 346HI, 351HI

Fourth Year:

PSL 350HI/BIO 349HI; PHY 355HI, 407HI; PSL 303Y1, 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 137Y1/157Y1, 223HI; PHY 140Y1

Note: Students with a good grade in PHY 110Y1/138Y1 may ask the Physics Undergraduate Office for entry into this or other Physics Programs requiring PHY 140Y1.

Second Year:

MAT 237Y1, 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 137Y1, 223HI; PHY 140Y1

Second Year:

1. MAT 237Y1, 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 135Y1/137Y1; PHY 138Y1/140Y1

Second Year:

MAT 235Y1/237Y1; PHY 225HI, 238Y1/(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

Physics

Minor programs:

A. 'Core' Minor

(4 full courses or their equivalent)

First Year:

PHY 140Y1

Second Year:

1. PHY 225H1

2. Three of: PHY 251H1, 252H1, 255H1, 256H1

Third Year:

1. PHY 305H1/307H1/308H1/309H1/326H1

2. One of PHY 351H1, 352H1, 355H1

B. 'Life, Environmental, and General' Minor

(4 full courses or their equivalent)

First Year:

MAT 135Y1/137Y1; PHY 138Y1/140Y1

Second Year:

ENV 235Y1/ PHY 238Y1 or any other 1 full course equivalent from PHY courses at the 200+ level

Third Year:

One full course equivalent from: BIO 472H1, JPA 305H1, JPA

310H1; JGP 438H1; PHY 315H1, 346H1, 445H1 or any

other PHY300+ course; JBO302Y may count as a half-

course credit to this requirement.

Earth Systems: Physics and Environment : see Centre for Environment

Physics and Astronomy: see Astronomy

Physics and Chemistry: see Chemical Physics in the Chemistry section

Physics and Computer Science: see Computer Science

Physics and Geology: see Geology

Physics and Mathematics: see Mathematics

Physics and Philosophy (Science program)

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:

PHY140Y1; MAT137Y1/157Y1; MAT223H1; PHL 100Y1

Second Year:

MAT237Y1; MAT244H1; PHY251H1; PHY255H1; PHY256H1; HPS 250H1

Third Year:

MAT334H1; PHY252H1; PHY351H1; PHY352H1; PHY355H1

Fourth Year:

PHY457H1; PHY480H1/483H1; PHY491H1

Any Year:

PHL 245H1; 344H1/345H1/347H1/349H1; 355H1; 356H1; 415H1/482H1

2.5 additional PHL courses, including at least 0.5 at the 300+ level

Planetary Science: see Astronomy and Astrophysics

Physics Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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.

SC1199H1/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 45.

PHY100H1 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: PHY110Y1/138Y/140Y taken previously or concurrently

PHY100H1 is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

PHY101H1 Patterns from Chaos 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: PHY110Y1/138Y/140Y taken previously or concurrently

PHY101H1 is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

Note

First Year Laboratory

Taken by all students enrolled in PHY110Y1 and 138Y1. 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.

PHY110Y1 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 or old OAC Physics. Students in other disciplines who wish some exposure to the methods and excitement of modern physics should consider either PHY100H1, PHY201H1, or PHY205H1. (See "NOTE" after PHY100H1 giving description of laboratory.) Reference: Cutnell and Johnson, Physics 5th edition (Wiley)

Exclusion: Senior (e.g. SPH4U) high school Physics or equivalent taken within the previous 5 years, PHY100H1/138Y1/140Y1.

Note: Students will be required to withdraw from PHY110Y1 at any time if they are found to have senior high school Physics (see "Exclusions" on Page 29).

Prerequisite: OAC or new Grade 12 "4U" Mathematics (Some calculus recommended or MAT 135Y1/137Y1/157Y1)

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 PHY100H1 giving description of laboratory.)

Reference: Serway and Jewett, Principles of Physics 3rd edition (Brooks/Cole) + Notes

Exclusion: PHY100H1/110Y1/140Y1

Prerequisite: (OAC Calculus or MCB4U Functions & Calculus) and (OAC or SPH4U Physics)

Co-requisite: MAT135Y1/137Y1/157Y1

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: PHY100H1/110Y1/138Y1

Prerequisite: (OAC Calculus or MCB4U Functions & Calculus) and (OAC or SPH4U Physics)

Co-requisite: MAT137Y1/157Y1, (MAT223H1/240H1 recommended)

PHY189H1 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: PHY138Y1/140Y1

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 PHY201H1 and PHY205H1 require a 100-series MAT prerequisite. See co-requisite entries under 100-series PHY courses above.

PHY201H1 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.

PHY201H1 is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

PHY205H1 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.

PHY205H1 is primarily intended as a Science Distribution Requirement course for students in the Humanities and Social Sciences.

Physics

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: PHY138Y1/140Y1
Co-requisite: PHY 238Y/251HI/252HI/255HI/256HI

ENV235YI 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 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)/151Y1; MAT135Y1/137Y1/157Y1/JMB170Y1; PHY138Y1/140Y1

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: (PHY110Y1, MAT135Y1)/PHY138Y1/140Y1
Recommended preparation: BIO150Y1/a CHM100-series course
Co-requisite: None, but students taking any higher level Physics course are expected to have at least MAT235Y1

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: PHY238Y1
Prerequisite: PHY138Y1/140Y1
Co-requisite: MAT235Y1/237Y1/257Y1

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: PHY138Y1/140Y1
Co-requisite: MAT235Y1/237Y1/257Y1

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: PHY138Y1/140Y1
Co-requisite: MAT235Y1/237Y1/257Y1 (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: PHY138Y1/140Y1
Co-requisite: MAT235Y1/237Y1/257Y1 (MAT223HI/240HI recommended)

PHY299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

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: PSL201Y1, 302Y1
Prerequisite: BIO150Y1; CHM138HI; MAT135Y1/137Y1; PHY138Y1/140Y1

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

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).

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

Physics

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

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/ 372HI Supervised Reading in Physics TBA

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/ 399Y0 Independent Experiential Study Project

An instructor-supervised group project in an off-campus setting. See page 45 for details.

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.

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

Prerequisite: PHY 428HI

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.

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

The three laws of thermodynamics; the inexorable increase of entropy, phases and phase transitions. Fluid mechanics, the Navier-Stokes equations; dynamical similarity, rotating flows, vorticity, waves, instabilities and 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

Physics

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.

**Physiology: see Life Sciences:
Physiology**

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

Planetary Science (Science program)

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

For Distribution Requirement purposes, all PLN courses are classified as SCIENCE courses (see page 25).

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

Faculty

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 (U)
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, BA, 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)
M.E. Wallace, BA, Ph D, FRSC
† M.H. Watkins, B COM, LL D (U)

Professor and Chair of the Department

R. Vipond, MA, Ph D (V)

University Professor and Associate Chair

J.G. Stein, MA, Ph D, FRSC (U)

Professor and Associate Chair (Graduate Studies)

D.A. Welch, AM, Ph D (U)

Associate Professor and Associate Chair (Undergraduate Studies)

† R. Hirschl, LLB, MA, M Phil, Ph D

Professors

E. Adler, BA, MA, Ph D
S. Bashevkin, MA, Ph D, FRSC (U)
H. Bathelt, Dipl-Geogr, Ph D, Habil
R.S. Beiner, BA, D Phil (UTM)
† S. Borins, BA, MPP, Ph D
A. Braun, MA, Ph D (UTM, T)
† A.S. Brudner, LL B, MA, Ph D
D.R. Cameron, M Sc, Ph D, FRSC
J.H. Carens, M Phil (Theol), 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
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)
C.J. Tuohy, MA, Ph D, FRSC
† L.E. Weinrib, BA, LL B, LL M
G. White, MA, Ph D (UTM)
D.A. Wolfe, MA, Ph D (UTM)

Associate Professors

S. Bernstein, MA, Ph D (UTM)
J. Bertrand, M Sc, MA, Ph D
S.E. Chambers, MA, M Phil, 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
† T. Homer-Dixon, BA, Ph D (U)
D.M. Ivison, M Sc, Ph D (UTSC)
P.W.T. Kingston, MA, M Phil, D Phil (UTSC)
J.J. Kirton, MA, Ph D (T)
P.L. McCarney, MCR, Ph D
† D. Schneiderman, LLB, LLM
† A. Shachar, LLB, LLM, JSD
† L. Sossin, MA, LLM, Ph D, JSD
M.S. Williams, AM, Ph D
N. Wiseman, 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)
R. Kingston, MA, Ph D
† N. Kokaz, MA, Ph D (U)
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. White, MA, Ph D
J. Wong, MA, Ph D

Lecturers

B. Falk, MA, Ph D
B. Fischer, MA, Ph D
M. Lippincott, MA, Ph D (UTM)
W. Skrobacki, MA, Ph D

Adjunct Professors

A.G.S. Careless, BA, D Phil
A.A. Kontos, MA, Ph D

† 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 3045, Sidney Smith Hall.

Undergraduate Director: Professor R. Hirschl, 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

Political Science (Arts program)

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)

Note:

The courses to include at least one 300+series course and no more than one at the 100-level.

Political Science and Economics: see Economics

Political Science and History: see History

Political Science and Philosophy: see Philosophy

Political Science

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 200H1, 202H1, 203Y1, and 204H1. 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 200H1, 202H1, 203Y1, 204H1, 300H1, 376H1, 377H1, 387H1, 401Y1
2. One of the following: SOC 210Y1/213Y1/220Y1/260Y1/301Y1/306Y1/340Y1/360Y1/369Y1

Political 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 45.

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.

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) will be removed at any time they are discovered.

POL103Y1 Canada in Comparative Perspective: Building and Sustaining Democracy 52L, 26T

Introduces students to political science by comparing Canada to a wide range of other countries working through the fundamental political concerns of power, authority, democracy and equality, and facing common challenges, such as ethnic and cultural diversity.

Exclusion: POL105Y, 108Y

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: POL103Y, 108Y

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: POL103Y, 105Y, POLA83H/A84H (UTSC)

200-Series Courses

POL200Y1 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.

POL201Y1 Politics of Development: Issues and Challenges 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

POL203Y1 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.

POL207Y1 Politics in Europe 52L, 26T
(formerly POL302Y)

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

POL208Y1 Introduction to 52L, 26T
International Relations

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

POL214Y1 Canadian Government 52L, 26T
and Politics

Canada's political system: its key governmental institutions, especially Cabinet and Parliament; federalism; the Charter of Rights and Freedoms; political parties and voting behaviour; ideologies and political culture; public opinion and pressure groups; regionalism and Quebec. Useful as a general course on Canada and a foundation for more specialized study.

Prerequisite: One full POL course/4.0 FCEs in the Faculty of Arts and Science

POL215Y1 Politics and Transformation of 52L, 26T
Asia-Pacific

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

POL242Y1 Introduction to Research 52L, 26T
Methods

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

POL299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

300-Series Courses

Note:

Enrolment in POL 300-series courses is limited.

See Registration Handbook and Timetable for details.

POL300H1/Y1 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

JMC301Y1 State and 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. (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

POL301Y1 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

JHP304Y1 Ukraine: Politics, Economy 52L
and Society
(formerly JHP 204Y)

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. (Given by the Departments of History and Political Science)

Exclusion: JHP204Y

POL304H1 Ethnicity and Politics in Canada 26L
(formerly POL304Y1)

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

POL305Y1 Politics and Society in Latin 52L
America

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

Political Science

POL310Y1 Managing International Military Conflict 52L

Analysis of different aspects of conflict management, including security regimes, U.N. peacekeeping, mediation, bilateral as well as multilateral techniques.
Prerequisite: POL208Y

POL311Y1 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

POL312Y1 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

POL313Y1 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

POL314Y1 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

POL315H1 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

POL316Y1 Contemporary Canadian Federalism 52L

Constitutional, political, administrative, and financial aspects of federal-provincial relations, regionalism, and cultural dualism.
Prerequisite: POL103Y/214Y

POL317Y1 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

POL318H1 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 2006)
Prerequisite: POL103Y/108Y/214Y
Recommended preparation: ECO100Y/105Y

POL319Y1 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

POL320Y1 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

POL321H1 Ethnic Politics in Comparative Perspective (formerly POL321Y1) 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

POL323Y1 Might and Right Among Nations 52L

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.
Prerequisite: POL200Y/208Y

POL324Y1 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

POL326Y1 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: POL330Y

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 2006)

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 (formerly POL344YI) 26L

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

Political Science

POL345HI Becoming Israel: War, Peace, and 39L
the Politics of Israel's Identity

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 26L
and Security

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 52L
North and South

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 52L
Global World

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 26L
Politics and Policy

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 52L
Policy in Comparative Perspective

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: 26L
Understanding the Policy Process

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

POL354HI Politics and Society in Russia 26L
(formerly POL354YI)

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/354Y
 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

POL357YI Topics in South Asian Politics 52L

Selected issues in South Asian politics. Content in any given year depends on instructor.
 Prerequisite: POL201Y/ permission of instructor

POL358YI Post-Colonial Questions: Politics, 52L
Knowledge, Power

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

POL359YI Enlarging Europe: The 52L
European Union and Its Applicants

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: POL103Y/108Y

POL364HI 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

POL366YI 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.

POL370YI International Political Economy 52L (formerly POL454YI)

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: POL454YI

Prerequisite: POL108Y/208Y; ECO100Y

POL395HI/ Research Participation TBA 396HI/ 397YI

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/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

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.

POL401HI 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.

POL402YI Problems in the Political Thought of the Socratic School 52S

Study of a small number of texts illuminating the origins and/or legacy of Socratic political philosophy.

Exclusion: POL402HI

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 (formerly POL404YI) 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

Political Science

POL406YI Reasons, Deliberation, and the 52S
Public Sphere

In the first term we discuss the claims and arguments put forward by leading defenders of public reason and deliberation (most notably John Rawls and Jürgen Habermas). During the second term we look at applications to real world problems ranging from medical ethics to international human rights. Prerequisite: POL200Y/320Y/JPP343Y

POL409HI Political Economy of Technology: 26S
From the Auto-Industrial to the
Information Age

Explores centrality of science and technology in political affairs generally and current significance for public policy in particular. Applies conceptual tools of political economy to analyze the nature of technological change in industrial democracies. It assesses social and political consequences of the current wave of technological innovation and alternative responses of industrial democracies. (Offered in alternate years) Prerequisite: CSC300H/ECO360Y/GGR326H/HPS201H/202H/ a POL 200+ course in comparative politics (industrial countries)/SOC356Y

POL410HI/YI Topics in Comparative 26S/52S
Politics III

Selected issues in comparative politics. Varies from year to year. Prerequisite: Two POL courses in comparative politics or permission of the instructor

POL412YI Human Rights, Democracy and 52S
International Politics

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: POL412H Prerequisite: POL201Y/208Y/320Y

POL414HI Nationalism, Identity and 26S
Politics in Ukraine and the
Post-Soviet Space

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, Myths and Identity: 26S
Ukraine and the CIS

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

The course explores the theoretical nature of the international system and its historical evolution. Prerequisite: POL208Y

POL417YI The Third World in International 52S
Politics

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)

POL418YI Politics and Planning in Third 52S
World Cities

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 52S
Data Analysis

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 52S
Foreign Policy

Seminar on the tradition, process, and implementation of American foreign policy. Prerequisite: POL203Y/208Y

JPJ421YI Comparative Constitutionalism: 52S
Rights and Judicial Review

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 26S
Interpreters

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: RLG433H1 Prerequisite: Minimum 14 FCEs

POL422YI Topics in Soviet and Post-Soviet 52S
Politics
(formerly POL422HI)

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 (formerly POL425HI) 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: POL431H
 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

Political Science

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, Fracois 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

POL444YI The Political Theory of G.W.F. Hegel 52S

An examination of the Phenomenology of Spirit and the Philosophy of Right.

Prerequisite: POL320Y

POL445YI Canada and The Third World 52S

Canadian development assistance, trade and investment and political policies towards the Third World. The ethical, geo-political, domestic political and economic determinants of these policies and their consequences.

Exclusion: POL445H

Prerequisite: HIS311Y/POL208Y/305Y/312Y

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

POL451YI Politics and the Media 52S

The relationship between politics and the news media, mainly in Canada and the U.S. Topics and major writers considered include: Innis, McLuhan, Chomsky, Bagdikian, concentration of ownership, election campaigns, polling, the press gallery, legal issues and libel chill, regulation of broadcasting, and the impact of new technologies.

Prerequisite: Three courses in POL

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

JUP460YI Contemporary Issues in Peace and Conflict 52S

A colloquium (fall term) and research seminar (spring term) on the changing meanings of security. Concepts to be considered, and to be applied in research, range from the unconventional (feminist theorizing, the GAIA hypothesis) to the familiar (collective security, deterrence). (Offered by the Department of Political Science and University College)

Prerequisite: POL208Y and UNI360Y/permission of the instructor

POL460HI Studies in Modern Political Theory (formerly POL460YI) 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

POL467HI Rational Choice and International Cooperation 26S

An examination of rational choice theories with applications to the international realm. Under which condition is individual rationality compatible with the common good? What are prospects for collective action under different configurations of power and institutions? Are the cooperative agreements that emerge stable, just and fair?

Prerequisite: Two courses in POL

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

POL473HI Local Government in Canada 26S

The structure and political processes of local government in Canada. Topics include finance, provincial-municipal relations, elections, local government reform, and selected case studies.

Prerequisite: POL103Y/214Y; one other POL course in Canadian politics

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 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 Regional Industry Clusters 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/GGR326H/HPS202H/a POL200+ course in comparative politics (industrial countries)+POL409H/SOC356Y

POL495YI Independent Studies TBA

Open only when a 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 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

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 or senior doctoral candidate 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.

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

Given by Members of the Department of Spanish and Portuguese

Faculty

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

Enrolment in the Portuguese programs requires the completion of four degree courses; no minimum GPA required.

Portuguese (Arts program)

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/I 10Y1/220Y1

Second Year:

1. PRT 220Y1/320Y1

2. PRT 258Y1

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/I 10Y1/220Y1

Second Year:

1. PRT 220Y1/320Y1

2. PRT 258Y1

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

Portuguese Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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 45.

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

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 (formerly PRT258YI) 26L

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 45 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

PRT351HI Discovery and Conquest: Literature and Nationhood (formerly PRT351YI) 26L

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, 258YI

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 (formerly PRT457YI) 52L

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, 258YI

PRT358HI Topics in Portuguese Studies 26L

In years when this course is offered, topics are described in detail in the departmental brochure.

Prerequisite: PRT220YI

PRT359HI From Pessoa to Saramago (formerly PRT456YI) 52L

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, 258YI

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/ 399Y0 Independent Experiential Study Project

An instructor-supervised group project in an off-campus setting. See page 45 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.

Portuguese

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

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, 258YI

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, 258YI

PRT455YI Machado de Assis and 52L
Eça de Queiroz
(formerly PRT356YI)

The novel as a way of life. The growth and maturation of Machado and Eça as novel-/life-writers, from Eça's critical examination of Portuguese society to Machado's corrosive skepticism. The ongoing dialogue between the two authors evidences their philosophies of novelistic writing and reading. (Offered in alternate years)

Exclusion: PRT356YI

Prerequisite: PRT220YI, 258YI

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, 258YI

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**

Faculty

Professors Emeriti

A.T. Davies, BA, BD, STM, Ph D (V)
L.S. Dewart, MA, Ph D (SM)
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

C.T. McIntire, MA, M Div, Ph D (V)
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, PhD (V)

Assistant Professors

A. Dhand MA, Ph D (V)
F. Garrett MA, PhD
J. Marshall, MA, Ph D (U)
W. Saleh, MA, Ph D

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 201Y1-209H1, 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: 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

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3. RLG203YI/RLG331YI
4. Two full courses in Greek, normally fulfilled by GRK 100YI 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, 365HI, 368HI, 369HI, 370HI, 378HI, NMC 252HI, 270YI, 324HI, 329HI, 338HI, FAH 300HI, 301HI, 302HI, 309HI, 315HI, 317HI, 321HI, 417HI, 419HI, 424HI.
7. One full course in another religious tradition, preferably an Eastern tradition such as 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. RLG100YI/280YI
2. RLG 206YI
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 210YI, 211YI, 212YI.
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): RLG205YI, RLG236HI, RLG274HI, RLG275HI, EAS269YI, HIS280YI, HIS281YI, HIS283YI, NEW214YI, PHL237HI; (third year courses): RLG361HI, RLG363HI, RLG366HI, RLG371HI, RLG372HI, RLG376HI, RLG375HI, EAS331YI, EAS 368YI, EAS369YI, EAS389YI, HIS380YI, HIS381YI, PHL337HI; (fourth year courses): RLG464HI, RLG466HI, RLG 490YI (on a topic in Buddhism), EAS468YI, EAS 469YI, NEW402YI.

Major program:

(7 full courses or their equivalent with at least two courses at the 300+level).

1. RLG100YI/280YI
2. RLG 206YI
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): RLG205YI, RLG236HI, RLG274HI, RLG275HI, EAS269YI, HIS280YI, HIS281YI, HIS283YI, NEW214YI, PHL237HI; (third year courses): RLG361HI, RLG363HI, RLG366HI, RLG371HI, RLG372HI, RLG376HI, RLG375HI, EAS331YI, EAS 368YI, EAS369YI, EAS389YI, HIS380YI, HIS381YI, PHL337HI; (fourth year courses): RLG464HI, RLG466HI, RLG 490YI (on a topic in Buddhism), EAS468YI, EAS 469YI, NEW402YI.

Religion and Philosophy: see Philosophy

Religion Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), all RLG courses are classified as HUMANITIES courses except RLG 210YI, 211YI, 212YI, 301HI, 302HI, 304HI, 307HI, 314HI, 315HI, 316HI, 386YI which are SOCIAL SCIENCE 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 45.

RLG100YI 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: RLG280YI; HUM B03H3, HUM B04H3. Note: HUM B03H3 and HUM B04H3 taken together are equivalent to RLG 100YI

200-Series Courses

Note

No 200-series course has a 100-series RLG course prerequisite or co-requisite.

RLG200YI The Phenomenon of Religion 52L, 26T (formerly RLG101YI)

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: RLG101YI, 101H5

RLG201YI 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 100YI/200YI/280YI

RLG202YI 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 100YI/200YI/280YI

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 it is 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 various psychological approaches to aspects of religion such as religious experience, doctrine, myth, ritual, community, ethics and human transformation. The historical place of introspective, psychoanalytic, humanistic and transpersonal methods in the psychology of religion.

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, 13 T

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.

RLG222HI Religious Ethics: The Roman Catholic Tradition 26L, 13T

Reason, experience (the natural law tradition) and revelation as the bases for moral judgment; faith and morality; freedom of conscience and the Church's claim to be a moral teacher; relevance to contemporary Catholic moral theology.

RLG223HI Religious Ethics: The Protestant Tradition 26L, 13T

The development of Protestant ethics since the Reformation. Gospel and law, love and justice, realism and perfectionism, moral norms and moral context, the personal, political, and economic orders.

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

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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.

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; HUMC 14H3

RLG250HI Islam in the Modern World 52L, 26T

An introduction to the major currents in Islam from the 18th Century onward. The course covers the developments from India to the Ottoman centers, concentrating on pan-Islamic modern developments.

Recommended Preparation: RLG 204Y1/NMC185Y1/
NMC185HI

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: RLG272Y1, 272H5, 370Y1

RLG275HI Japanese and Korean Religions 26L, 13T

The religions of Japan (Shinto, Buddhism, Confucianism) and the religions of Korea (Confucianism, Buddhism, Shamanism).

Exclusion: RLG273Y1, 273H5, 370Y1

RLG280YI World Religions: A Comparative Study 52L, 26T

An alternative version of the content covered by RLG 100Y1, for students in second year or higher who cannot or do not wish to take a further 100-level course. Students attend the RLG 100Y1 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: RLG100Y1

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 45 for details.

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: RLG211Y1

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: RLG211Y1

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 307Y1)

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: RLG307Y1

Prerequisite: RLG210Y1/SOC250Y1/an introductory course in sociology

This is a Social Science course

RLG309YI Religion, Morality and Law 52L

The relationships between religious and ethical norms, social and political ideals, and systems of law. The roots of Western legal concepts such as authority, duty, rights, and punishment in biblical and natural law tradition, and their counterparts in positive law theory. Church and State conflict in a philosophy of law context.

Prerequisite: three RLG or PHI/PHL half-courses and third year standing

Exclusion: RLG 309H5

RLG310YI Modern Atheism and the Critique of Religion (formerly RLG310H1) 52L

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

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: RLG241YI

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 241YI
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 241YI
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: RLG202YI/203YI/241YI 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 241YI/RLG 202YI/RLG203YI
Exclusion: RLG326H5

Religion

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 241YI

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.

RLG332YI Protestant Thought (formerly RLG246YI) 52L

The central ideas of Protestant Christianity from the 16th century reformers to their 20th century heirs: Luther, Calvin, Zwingli, Edwards, Schleiermacher, Ritschl, Rauschenbusch, Barth, Tillich, Niebuhr, Moltmann. Analysis of pietism, orthodoxy, liberalism, fundamentalism, neo-orthodoxy, the contemporary situation.

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.

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 (formerly RLG244YI) 52L

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: RLG100Y1/280Y1/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: RLG100Y1/204Y1/224HI/280Y1/NMC185Y1/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: RLG100Y1/204Y1/224HI/280Y1/NMC185Y1

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: RLG100Y1/205Y1/280Y1

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: RLG100Y1/205Y1/280Y1

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: RLG100Y1/205Y1/280Y1

Exclusion: RLG360HI

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 100Y1/280Y1/RLG 205Y1

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: RLG100Y1/206Y1/280Y1

Exclusion: RLG371HS

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

RLG375HI Buddhist Thought in India and Tibet 26L

An introduction to philosophical thought in the Buddhist traditions of India and Tibet.

Prerequisite: RLG206Y1

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: RLG206Y1

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 318Y1

Prerequisite: RLG 212Y1 or 2nd year Social/Cultural Anthropology Course

This is a Social Science course

RLG388HI Special Topics I 26L

RLG389HI Special Topics II 26L

RLG398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 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

Religion

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.		
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.		
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 241YI 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 241YI 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 241YI and at least one of RLG 319HI-327HI

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.

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

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.

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.

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 Simon 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.

Religion

RLG487HI Liberation Theology 26Si

This course explores the work of these two seminal contemporary Christian thinkers, Gustavo Guitierrez, 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

Professors

A. Dooley, MA, Ph D
D.A. Wilson, MA, Ph D

Associate Professors

M.G. McGowan, MA, Ph D
G. Silano, LLB, MA, Ph D
P.Thompson, 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 from artistic, literary, philosophical, theological, scientific, social and historical perspectives.

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

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)

Consult Dr. Dorothy Speirs, St. Michael's College

Minor program

(Four full courses or their equivalent; at least one 300+ series course)

1. SMC228Y1
2. Three courses or their equivalent from: ABS 300Y1/302H1/ ANT 323Y1/ ENG 232H1/234H1/322Y1/ FAH319H1/ 323H1/367H1/436H1/ FCS 297H1/ FRE 450H1/ HIS 241H1/316H1/341Y1/367H1/374H1/375Y1/ 419Y1/437H1/ 455H1/477Y1/ HPS 201H1/202H1/ INI301H1/305H1/ NEW 271Y1/ NMC357Y1/POL 451Y1/ SMC 210Y1/219Y1/ 300H1/301H1/304H1/305H1/314H1/315H1/358H1/ 361H1/ VIC 345H1/VIS 206H1/WDW 385H1

Celtic Studies (Arts program)

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 I41Y1/241Y1/242Y1/243Y1/331Y1/440Y1/ 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 240Y
2. One of SMC I41Y1/241Y1/242Y1/243Y1/331Y1/440Y1/ 441Y1
3. Four additional courses from those listed in the Specialist program above

Minor program:

(4 full courses or their equivalent)

Four courses chosen from those listed for the Specialist Program, including at least one 300+ series course.

Christianity And Culture (Arts program)

Consult Professor 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 469H1/ RLG 222H1/225H1/312H1/ 321H1/330H1/331Y1 /338Y1/384H1/441H1. 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 103Y1/203Y1
2. One full course equivalent from SMC 200Y1/205H1/208Y1/215H1/230Y1
3. Any three of the following four options:
 - a) Two courses from "Christianity and Society": SMC 203Y1/ 204H1/205H1/207H1/208Y1/209H1/215H1/304H1/308H1/309H1/311H1/313H1/320H1/321H1/332H1/362Y1/390Y1/391H1/400H1/401H1/421H1/426H1/427H1/ HIS469H1/ RLG222H1/225H1/321H1 or relevant cross-listed courses
 - b) Two courses from "Christianity and the Intellectual Tradition": SMC 208Y1/307Y1/310H1/311H1/312H1/330Y1/332H1/ /390Y1/391H1/400H1/401H1/417H1/418H1/419H1/421H1/423H1/424H1/ RLG 222H1/312H1/321H1/330H1/331Y1/384H1/441H1 or relevant cross-listed courses
 - c) Two courses from "Christianity, Arts and Letters": SMC 200Y1/201H1/206H1/216Y1/302H1/305H1/ 390Y1/391H1/400H1/401H1/422H1/425H1 or relevant cross-listed courses
 - d) Two courses from "Christianity and the Scientific Tradition": SMC 230Y1/306H1/370H1/371H1/390Y1/391H1/400H1/401H1/RLG338Y1 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 103Y1/203Y1
2. One full course equivalent from SMC 200Y1/205H1/208Y1/215H1/230Y1
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 103Y1/203Y1
2. One full course equivalent from SMC 200Y1/205H1/208Y1/215H1/230Y1
3. Two additional Christianity and Culture courses

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 210Y1
2. Two courses or equivalent from the foundational courses listed below
3. Two courses or equivalent in Latin
4. SMC 490Y1: 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 210Y1
2. Two courses or equivalent from the foundational courses listed below
3. Three courses or equivalent from the approved courses listed below
4. SMC 490Y1: Senior Essay in Mediaeval Studies, or another course from the approved list

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 302H1	Christianity and Symbols
SMC 307Y1	Scripture in the Christian Tradition
SMC 358H1	The Mediaeval Book
SMC 359H1	Mediaeval Theology
SMC 360H1	Vernacular Literature of the Middle Ages
SMC 361H1	Mediaeval Law

History:

CLA 378H1/ HIS 206Y1/220Y1/251Y1/320Y1/322Y1/323Y1/403Y1/ 424Y1/427H1/428H1/432H1/434Y1/438H1/ HPS 201H1/430H1/ NMC 270H1/272H1/273Y1/353H1/366Y1/376H1/ SMC 211H1/215H1/ 345Y1/357H1/403H1

Thought:

CLA 336H1/ MAT 390H1/ PHL 200Y1/205H1/206H1/303H1/304H1/ 307H1/308H1/309H1/336H1/ RLG 241Y1/331Y1/ SMC 205H1/307Y1/332H1/350H1/ 359H1/361H1/402H1/425H1

Literature:

ENG 240Y1/241Y1/300Y1/330H1/367Y1/ 400Y1/401Y1/481H1/ FRE 420H1/471H1/GER429H1/ ITA 311H1/312H1/320H1/430H1/ LAT 100Y1/322H1/323H1/ NMC 255H1/350H1/ SMC 343Y1/360H1/440Y1/441Y1/ 450Y1/ SLA 330Y1/ SPA 425H1/450H1

The Arts:

FAH 261H1/316H1/318H1/319H1/320H1/321H1/322H1/323H1/326H1/333H1/369H1/ 426H1/427H1/436H1/437H1/444H1/482Y1/483H1/ MUS 208H1/ NMC 366Y1/464H1/ SMC 302H1/344Y1/358H1/422H1

SMC343YI 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.

SMC344YI Celtic Archaeology and Art 52L

The art and archaeology of the Celtic peoples, with special reference to settlement patterns in Great Britain and Ireland.

SMC345YI From Tribalism to Feudalism: 52L
Early Celtic History

The political and social development of Ireland, Scotland, Wales, and Brittany from the 5th to the 12th centuries.

SMC346YI 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.

SMC348YI 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 26L
Literary Tradition

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: SMC342YI, ENGI40YI

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.

SMC352YI 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: SMC347YI

SMC353YI 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.

SMC354YI 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 26L
Studies

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 26L
Studies

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 26S
the United States

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.

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 representation 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 (formerly SMC 420HI) 26L

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 Canadian Law 26S

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 crimonous 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 (formerly SMC 402HI) 26L

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 Christianity and Culture TBA

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 Christianity and Culture TBA

SMC400HI Advanced Topics in Christianity and Culture I TBA

Prerequisite: Two courses in Christianity and Culture

SMC401HI Advanced Topics in Christianity and Culture II TBA

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 the Church 26S

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 Christian Traditions 26S

A seminar devoted to examining the changing representation of Jews and Judaism within Christian traditions over the past two thousand years.
Prerequisite: Completion of at least ten courses
Recommended preparation: SMC200YI

SMC422HI Sacred Space in the Christian Tradition 26S

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
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.

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
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.
Recommended preparation: SMC203YI or SMC309HI or SMC426HI

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.

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: SMC210Y1/HIS220Y1

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: LAT100Y1; SMC210Y1 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: SMC210Y1

SMC360HI Vernacular Literature of the Middle Ages (formerly SMC420HI) 26L

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: SMC210Y1

Exclusion: SMC420HI

SMC361HI Mediaeval Law (formerly SMC405HI) 26S

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 220Y1/SMC 210Y1

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: HIS220Y1/SMC203Y1/SMC210Y1

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: SMC210Y1/HIS220Y1

SMC406HI Mediaeval Seminar II 26S, 13T

A fourth-year seminar on a topic to be determined annually.

Prerequisite: Permission of the instructor

Recommended preparation: SMC210Y1 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: SMC210Y1 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.

Other St. Michael's College Courses

SMC299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

Slavic Languages and Literatures

Faculty

Professors Emeriti

C.H. Bedford, MA, Ph D
G. Bisztray, MA, Ph D
B. Budurowycz, MA, BLS, Ph D
L. Dolezel, 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

Professors

C.J. Barnes, MA, Ph D
K.A. Lantz, 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
T. Trojanowska, MA, Ph D

Assistant Professors

T. Koznarsky, 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

Slavic Languages and Literatures Programs

Enrolment in the Slavic Languages and Literatures programs requires the completion of four courses; no minimum GPA required.

Croatian And Serbian Studies (Arts program)

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

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, 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, 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 (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 100YI and approved first courses in any two Slavic languages

Higher Years:

1. LIN (228HI, 229HI)/(231HI/232HI); SLA 330YI

Slavic Languages and Literatures

2. Remainder of 3-year sequences in the two Slavic languages
3. Two courses from: SLA 425Y1, 430Y1, 438H1, 452Y1, 468H1 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, 339H1, 340H1
2. Two courses from: SLA 234H1, 244H1, 250Y1, 252H1, 311H1, 312H1, 314H1, 315H1, 317H1, 321Y1, 330Y1, 331H1, 332H1, 343H1, 344H1, 351H, 367H1, 370H1, 402H1, 403H1, 415H1, 420Y1, 423H1, 433H1, 440H1, 441H1, 449H1, 450H, 451H1, 452Y1, 460H1, 461H1, 462H1, 464H1

B. Polish

First Year:

SLA 106Y1

Higher Years:

1. SLA 206Y1, 216Y1, 306H1, 336H1, 406H1/406Y1, 416Y1
2. Two courses from: SLA 226H1, 330Y1, 346H1, 356H1, 406H1/406Y1, 416Y1, 436H1, 446H1, 476H1

C. Ukrainian

First Year:

SLA 108Y1

Higher Years:

1. SLA 208Y1, 308Y1
2. Four courses from: SLA 218Y1, 228H1, 238H1, 248H1, 253H1, 318H1, 328H1, 330Y1, 408H1, 418H1, 419Y1, 428Y1, 429H1, 438H1, 448H1, 458H1, 468H1

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, 438H1, 468H1
2. Four courses, including at least one at the 300+level., from: SLA 228H1, 238H1, 248H1, 253H1, 318H1, 328H1, 330Y1, 408H1, 418H1, 419Y1, 428Y1, 429H1, 448H1, 458H1. 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 228H1, 238H1, 248H1, 253H1, 308Y1, 318H1, 328H1, 408H1, 418H1, 419Y1, 428Y1, 429H1, 438H1, 448H1, 458H1, 468H1. 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 31 for Key to Course Descriptions.

(Croatian; Czech & Slovak; Macedonian; Polish; Russian; Serbian; Slavic Linguistics; Ukrainian)

For Distribution Requirement purposes (see page 25), 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.

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 45.

SLA202H1 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?

SLA251H1 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.

SLA253H1 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.

Slavic Languages and Literatures

**SLA254HI Stone Books to Sky Books: 13L, 13S
Book as Institution, Commerce
and Art in the Slavic Tradition**

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 39S
Credit course for supervised participation in faculty research project. See page 45 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 45 for details.

**SLA422YI History into Literature: 26L, 26S
Jaan Kross and the 20th
Century East European Historical Novel**

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 26L, 26P
Extremis**

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 26S
Fiction**

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: 39S
Stanislavski, Meyerhold, Grotowski,
and Kantor**

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 26S
Milan Kundera**

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

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)

**SLA217YI Serbian Cultural History 52L
(formerly SLA217H1)**
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: SLA217H1

**SLA227YI Croatian Cultural History 52L
(formerly SLA227H1)**
A survey of culture in literature, film and the fine arts from the coming of the Croats to Southeastern Europe until World War

Slavic Languages and Literatures

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 Dubrovnik to the Danube 26S

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 (formerly SLA407HI) 26S

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

SLA417HI Bosnian, Croatian and Serbian On Film 13S, 13P

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

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 (formerly SLA205HI) 104P

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 Modernism: Czech Literature of the 19th Century 26S

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, Havlieek 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 Avant-garde and Beyond: Czech Literature of the 20th Century 52S

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

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

Slavic Languages and Literatures

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)

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

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

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)

Slavic Languages and Literatures

SLA436HI Rebels, Scoffers, and Jesters: 26S
Polish Culture from
Different Perspectives

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

SLA100Y1 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)

SLA220Y1 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

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, 26L, 13T
1820-1860

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, 26L, 13P
1860-1900

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: 26S, 13P
Russian and Soviet Comedy

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

SLA250Y1 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 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.

SLA320Y1 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: SLA220Y1; native speakers of Russian admitted only with permission of instructor

Slavic Languages and Literatures

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: SLA220Y I 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, lu. 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. Tsypkin). 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: SLA320Y I

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: SLA320Y I 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: SLA320Y I 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

SLA420YI Studies in Russian Syntax and Stylistics 130S

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: SLA320Y I; native speakers of Russian admitted only with permission of instructor

SLA423HI War and Peace (formerly SLA323HI) 39S

War and Peace in depth, and from various points of view, literary, political, philosophical, historical, and psychological.

Slavic Languages and Literatures

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

SLA433HI Anna Karenina 39S
(formerly SLA324HI)

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

SLA440HI Introduction to Russian 26S
19th Century Poetry
(formerly SLA440YI)

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

SLA441HI Modern Russian Poetry 26S

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

SLA449HI Russian Thinkers 39S

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.

SLA451HI Russian Acmeist Poetry 26S

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.

SLA450HI Pushkin and His Age 26P

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.

SLA460HI Contemporary Russian Literature 26L

Major writers and literary groupings of the past decade; the literary process in post-Soviet Russia. (Taught in Russian)
Prerequisite: Permission of the instructor

SLA461HI Literary Scandals in 26L
20th Century Russia

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

SLA462HI Russian Comic Fiction: 26S
Chekhov, Zoshchenko, Dovlatov

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)

SLA464HI Studies in the Russian Novel 26L

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

Slavic Linguistics Courses

SLA330YI Old Church Slavonic 52S

Structure and history. Reading and linguistic study of Old Slavonic texts.
Prerequisite: Permission of instructor

SLA452YI Structure of Russian 52S

The phonology, morphology and syntax of contemporary standard Russian from a formal and semantic standpoint.
Prerequisite: SLA320YI

Ukrainian Courses

Web site: www.chass.utoronto.ca/~tarn/courses/

SLA108YI Elementary Ukrainian 104P

Basic vocabulary, simple sentence patterns, essential morphology. Internet language laboratory drills. Intended for students with little or no knowledge of the language.

SLA208YI Intermediate Ukrainian 104P

Study of morphology through grammar drills; oral practice; reading of texts from Ukrainian literature.
Prerequisite: Permission of instructor

SLA218YI Ukrainian Literature 26L, 26S
and Culture

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 13L, 13S
Fiction in Translation

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

Slavic Languages and Literatures

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 Smotrysky, 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: SLA208YI, 308YI

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: SLA308YI or permission of instructor

Faculty

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

Professor and Associate Chair

E.W.-C. Fong, MA, Ph D

Associate Professor and Associate Chair

A.M. Sorenson, MA, Ph D

Professors

Z. Baber, MA, PhD
 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
 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)
 B. McCarthy, MA, PhD
 J. Myles, Ph D, FRSC
 R. O'Toole, MA, Ph D (S)
 J.G. Reitz, BS, Ph D, FRSC
 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
 M. Hammond, MA, Ph D (S)
 K. Hannah-Moffat, MA, Ph D (UTM)
 P.C. Hsiung, MA, Ph D (S)
 R.W. MacKay, MA, Ph D (U)
 W.J. Magee, MS, Ph D

I. Peng, MA, Ph D
 S. Schieman, MA, Ph D
 A. Sevrer, 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
 S. Welsh, 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)
 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.

Sociology

Much of the undergraduate and graduate teaching and research 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.

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/undergraduate/>

Sociology Programs

Enrolment in Sociology Programs is limited. Consult the *Registration Handbook and Timetable* for enrolment details.

Sociology (Arts program)

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 and a half additional 200+ level SOC courses, including at least one 300+ level course

Sociology and Economics - See Economics

Sociology and Philosophy: see Philosophy

Sociology and Political Science: see Political Science

Sociology and Urban Studies (Arts program)

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:

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 31 for Key to Course Descriptions.

For Distribution Requirement purposes, all SOC courses are classified as SOCIAL SCIENCE courses (see page 25).

Note 1.

Enrolment in SOC 200Y1, 387Y1, 389Y1, 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 45.

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 26, 26T (formerly SOC200Y1)

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

interpreting linkages between legal and other social structures and processes.

Prerequisite: SOC101Y1

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: SOC101Y1

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: SOC101Y1

**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: SOC101Y1 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: SOC101Y1

SOC243H1 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: SOC101Y1

SOC244H1 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: SOC101Y1

SOC246H1 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: SOC101Y1

SOC247H1 The Sociology of Aging II 39L

Social gerontology deals with many social aspects of advanced age. This is a continuation of SOC246H1. Focus is on

institutional level analysis of the programs that assist with aging problems.

Exclusion: SOC245Y1

Prerequisite: SOC246H1

SOC250Y1 Sociology of Religion 52L

Overview of the classic theoretical literature. Topics may include: the social origins of Judaism and Christianity; the process of secularization; the significance of new religious movements; the relevance of "civil religion"; and the contemporary upsurge of "fundamentalism".

Exclusion: RLG210Y1

Prerequisite: SOC101Y1

SOC256H1 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: SOC101Y1

SOC257H1 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: SOC101Y1

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: SOC101Y1

**SOC263H1 The Quality of Social Life 26L
(formerly SOC262Y1)**

Social psychological perspectives on the quality of life, focusing on interpersonal relationships, marriage and families, social equity and inequality, mass media and popular culture, and violence and victimization.

Prerequisite: PSY100H1/SOC101Y1

SOC270H1 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: SOC101Y1

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

SOC293YI/ 294YI/ 295YI **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

SOC296HI/ 297HI/ 298HI **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

SOC299YI **Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 45 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.

SOC300HI **Applications of Quantitative Methods in the Social Sciences (formerly SOC300YI)** **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: SOC300YI, ECO220YI, PSY202HI, STA222H, STA250HI
Prerequisite: SOC200HI, SOC202HI.

SOC301YI **Theories of Inequality** **52L**

Theories of social inequality, its historical evolution, and the determinants of continuity and change of patterns of social inequality.
Prerequisite: SOC203YI

SOC303HI **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: SOC101YI

SOC304HI **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: SOC101YI

SOC306YI **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: SOC101YI

SOC309YI **HIV and AIDS: Social Policies and Programs (formerly SOC309HI)** **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: SOC101YI

SOC310HI **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: SOC101YI

SOC312YI **Population and Society** **52L**

Population processes (birth, death, and migration) and their relationship to social, cultural, and economic change.
Prerequisite: SOC101YI

SOC317YI **Industrial Sociology (formerly SOC316YI)** **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

SOC320YI **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

SOC327YI **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: SOC101YI

SOC328HI **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 access census tables. Not intended for Sociology Specialists, who must take SOC300YI.
Prerequisite: SOC101YI, 200YI
Recommended preparation: OAC/Grade 12 U Mathematics

Sociology

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.

Exclusion: SOC330Y1

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 will focus in particular on emotions and social rankings. We will also focus on how one might study the relationships of social structure and social status with emotions.

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

Analysis of the interplay between technology and society, starting with the Industrial Revolution. Considers how technological developments affect social systems, communications, work, leisure and world-systems.

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: SOC205YI or SOC212YI

SOC360YI Sociology of Cultural Studies 52L

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

SOC363HI Sociology of Mental Health and Mental Disorders 26L (formerly SOC262YI, 264HI)

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

SOC364HI Urban Health 26L

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

SOC365YI Gender Relations 52L

Examination of historical and contemporary sources of gender inequity, and the many dimensions of gender difference and inequality today.

Prerequisite: SOCI01YI

SOC366HI Sociology of Women and Work 26L

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: SOCI01YI

SOC367HI Race, Class, and Gender 26L

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: SOCI01YI

SOC369YI The Canadian Community 52L

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

SOC370YI Sociology of Labour 78L

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

SOC373HI Sociology of Disability I 26L (formerly SOC273HI)

The experience of disability and the social definition of the experience for self and others. Combination seminar and lecture format.

Exclusion: SOC273HI

SOC374HI Sociology of Disability II 13L/13S

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 2001 I session

SOC375YI Sociology of Organizations 52L

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

SOC376HI Theories of Private and Public Life 26L (formerly SOC389YI)

A selective introduction to major thinkers and approaches in contemporary sociology. Enrolment is limited to students in the sociology specialist program.

Prerequisite: SOC203YI

Exclusion: SOC389YI

SOC377HI Micro and Macro Theory 26L (formerly SOC389YI)

A selective introduction to major thinkers and approaches in contemporary sociology. (adjunct to Theories of Private and Public Life). Enrolment is limited to students in the sociology specialist program.

Prerequisite: SOC203YI

Exclusion: SOC389YI

SOC380HI Sociology of Everyday Life 2: Institutional Context 26L

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

SOC381YI Culture and Social Structure 52L (formerly SOC393YI)

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: SOC393YI

Prerequisite: SOCI01YI

Recommended preparation: SOC200YI or a course in methods, sociological theory, inequality, or gender.

Sociology

SOC382YI Social Issues (formerly SOC399YI) 52L

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 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: SOC101YI

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 focussing 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: SOC101YI

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 TBA
391HI/
392HI**

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 TBA
394YI Research**

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 TBA
396HI/ Research
397HI**

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 45 for details.

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 1 above).

Prerequisite: SOC300YI, 389YI

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: SOC300Y1; or a full-course equivalent to SOC300Y1 (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: SOC101Y1, 200Y1

Recommended preparation: SOC303HI, 312Y1

Note

Independent Research courses SOC 490Y1, 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.

SOC490Y1/ 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.

SOC493Y1/ Selected Topics in Sociological TBA
494Y1/ Research
495Y1

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

Faculty

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

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)

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

Enquiries: Victoria College, Room 208 (416-813-4080)

Spanish Programs

Enrolment in the Spanish programs requires the completion of four degree courses; no minimum GPA required.

Spanish (Arts program)

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 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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 breadth requirement course; see page 45.

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

SPA258H1 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

SPA259H1 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 45 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

SPA320Y1 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: SPA319Y1

Prerequisite: SPA220Y1

Spanish

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: SPA220Y1/319Y1

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 220Y1/319Y1

Recommended preparation: SPA 321HI

SPA323HI Business Spanish 26L (formerly SPA323Y1)

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: SPA323Y1

Prerequisite: SPA220Y1/319Y1

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: SPA220Y1/319Y1

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: SPA220Y1/PRT220Y1 or an equivalent course in French or Italian

Exclusion: SPA225Y1

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: SPA220Y1/319Y1

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 220Y1/319Y1

Recommended Preparation: SPA258HI/SPA259HI

SPA352HI Writing and Culture in Early Modern Spain 26L

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 220Y1/319Y1

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: SPA220Y1/SPA319Y1

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: SPA220Y1/319Y1

Recommended preparation: SPA258HI

SPA381HI Nation, Identity and Literary Modernism in Spanish-America 26L

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: SPA220Y1/319Y1

Recommended preparation: SPA258HI

SPA382HI Spanish American Women in Art, Film, and Literature 26L

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: SPA220Y1/319Y1

Recommended preparation: SPA258HI

SPA384HI Avant-Garde Movements in Spanish America 26L

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: SPA220Y1/319Y1

Recommended preparation: SPA258HI

SPA385HI Literature and Social Change in Spanish America 26L

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

SPA387H0 Contemporary Mexican Literature 50L

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: SPA220H1/319Y1 and Placement Examination for the Guadalajara Program

SPA398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

SPA420HI Advanced Grammar 26L

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

SPA421HI The Structure of Spanish 26L

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

SPA422HI Sociolinguistics of Spanish 26L

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

SPA425HI History of the Spanish Language 26L

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

SPA435HI Fictions of Contemporary Spain 26L

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

SPA438HI Topics in Modern Spanish Literature 26S

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

SPA450HI Studies in Medieval Iberian Literature 26L

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

SPA452HI Theatre and Representation in Golden Age Spain 26L

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

SPA454HI Cervantes and Golden Age Narrative 26L

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

SPA467HI Topics in Spanish-American Culture 26L

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

SPA468HI Topics in Modern Spanish-American Literature 26S

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

SPA471HI The Historical Novel in Spanish America 26L

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

SPA480HI Theories of Culture in Latin America 26I

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

Spanish

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

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)

Assistant Professors

A. Badescu
R. Craiu, B Sc, Ph D
S. Jaimungal, B A Sc, M Sc, Ph D
B. Virág, Ph D (UTSC)

Senior Lecturer

A.M. Vukov, MA, ASA

Lecturers

K. Butler, M Sc, Ph D (UTSC)
A. Gibbs, B Math, B Ed, MSc, PhD
S.A. Hashim, B Sc, Ph D (UTSC)
A. Weir, B Sc, M Sc, Ph D (UTM)

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, 261HI, and JBS 229HI 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)

Statistics Programs

Enrolment in these programs requires completion of four courses; no minimum GPA is required.

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

Group A:

STA 410HI/442HI, 414HI/422HI/438HI, 447HI

Group B:

STA 410HI, 442HI, 414HI/437HI/457HI

Statistics

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

Statistics and Economics - See Economics

Statistics and Mathematics (Science program)

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

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25) STA 220HI, 221HI, 250HI, 255HI, 257HI and JBS 229HI have NO distribution requirement status; STA 429HI is a SCIENCE or SOCIAL SCIENCE course; all other STA courses are classified as SCIENCE courses.

SC1199HI/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 breadth requirement course; see page 45.

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: ECO227YI/STA255HI/257HI/ECO200YI/STA247HI
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/JBS229HI/PSY202HI/SOC300YI/STA261HI/250HI/248HI

Prerequisite: STA220HI

STA221HI does not count as a distribution requirement course.

JBS229HI Statistics for Biologists 39L, 13T

Continuation of STA220HI, jointly taught by Statistics and Biology faculty, emphasizing methods and case studies relevant to biologists including experimental design and analysis of

variance, regression models, categorical and non-parametric methods.

Exclusion: ECO220Y1/227Y1/GGR270Y1/PSY202H1/SOC300Y1/STA221H1

Prerequisite: BIO150Y1, STA220H1/250H1

JBS229H1 does not count as a distribution requirement course.

STA247H1 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/JBS229H1, 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 45 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/JBS229H1/

PSY202H1/SOC300Y1/STA221H1/255H1/261H1/248H1

STA332H1 Experimental Design 39L (formerly STA402H1)

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)

STA352YI 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: MAT235Y1/237Y1/257Y1/ (ECO227, MAT237Y1/257Y1); STA261H1/(STA 257H1, MAT 224H1) (MAT237H1 very strongly recommended).

STA398H0/ Independent Experiential Study Project 399Y0

An instructor-supervised group project in an off-campus setting. See page 45 for details.

STA410HI 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

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: STA302H1/CSC411H1

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: STA352Y1

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 STA322H1

Prerequisite: ECO220Y1/227Y1/GGR270Y1/JBS229H1/PSY202H1/SOC300Y1/STA221H1/250H1

STA429H1 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: ECO327Y1/357Y1/STA302H1/352Y1

Recommended preparation: APM233Y1/MAT223H1/240H1

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 T², testing and estimation of regression parameters, classification and discrimination.

Prerequisite: MAT223H1/240H1, STA352Y1/437H1 (STA352Y1 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: ECO327Y1/357Y1/STA302H1

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: STA348H1

Prerequisite: STA347H1

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: ECO327Y1/357Y1/STA302H1

Recommended preparation: MAT235Y1/237Y1/257Y1

STA496H1/ Readings in Statistics 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.

STA498Y1/ Readings in Statistics TBA 499Y1

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**

Trinity College offers Trinity One, a set of first-year courses, and four inter-disciplinary programs: Ethics, Society, and Law; Immunology; Independent Studies; 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 skills, oral presentation skills, writing skills, and research skills. Occurricular events, drawing upon the rich resources of the Munk Centre for International Studies at Trinity College, 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: Dr. John Duncan, Room 303, 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)

1. PHL 271HI (to be taken in the first year of registration in the program)
2. Six courses from Groups A-C, including at least ONE from each group and at least TWO at the 300+level
3. TRN 412HI (to be taken in final year of registration in the program)

Group A (Ethics)

PHL 273HI, 275HI, 281YI, 341HI, 373HI, 375HI, 378HI, 380HI, 381HI, 382HI, 383HI, 384HI, 394HI, 407HI; POL 330YI; PSY 314HI; RLG 221HI, 222HI, 223HI, 228HI; TRN 311HI

Group B (Society)

ANT 204YI; CSC 300HI; ECO 313HI, 332HI, 336YI, 340HI; GGR 233YI, 331HI, 393HI; HIS 332HI, 355HI; HPS 324HI; INI 447HI; JIE 222YI; PHL 265HI, 295HI, 365HI; POL 200YI, 214YI, 320YI, 404HI, 405YI, 412YI, 432YI; 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; INI 422HI; NMC 484HI; PHL 370HI,

484HI; POL 319YI, 332YI, 337YI, 340YI; RLG 309YI; SMC 304HI, 361HI; SOC 213YI; TRN 305YI, 425YI; WDW220YI, 365HI, 420HI; WGS 365HI.

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 100Y1/105Y1; HIS 103Y1; one introductory modern language course or MAT133Y1/137Y1

NOTE: Students who intend to apply for the Specialist program are strongly encouraged to take ECO 100Y1; POL 108Y1 is optional, and can replace one of the POL options under 2nd, 3rd or 4th years below.

Second and Third Years:

1. POL 208Y1 (must be taken in Second Year)
2. ECO 230Y1/328Y1, 342Y1; HIS 311Y1, 344Y1; POL 310Y1/312Y1/326Y1/340Y1

Second, Third or Fourth Year:

Normally two full course equivalents from: ANT 452HI; ECO 200Y1, 202Y1, 230Y1/328Y1, 303Y1, 324Y1; EUR 200Y1; GGR 439HI; HIS 232Y1, 241HI, 242HI, 250Y1, 251Y1, 271Y1, 327HI, 329HI, 334Y1, 338Y1, 343Y1, 347HI, 376HI, 377Y1; IAS 200Y1; JMC 301Y1; NMC 378Y1; POL 108Y1, 201Y1, 310Y1, 312Y1, 318HI, 323Y1, 324Y1, 326Y1, 335HI, 340Y1, 341HI, 342Y1, 343Y1, 346HI, 370Y1, 410HI, 467HI

Fourth Year:

Two full course equivalents from the following seminars: ECO 419HI, 429Y1, 459HI; HIS 401Y1, 405Y1, 436HI, 445HI, 451HI, 453HI, 455HI, 458Y1, 471HI, 473Y1, 479HI, 488HI, 492HI, 497Y1, 498HI; JHP 400Y1; JUP 460Y1; POL 401HI, 410HI, 412Y1, 414HI, 415HI, 416Y1, 417Y1, 420Y1, 435HI, 440Y1, 441HI, 442HI, 445Y1, 452Y1, 453Y1, 458HI, 459Y1, 464HI, 465HI, 466HI, 467HI, 468HI, 469HI, 477HI, 486HI, 487HI, 495Y1, 496HI; TRN 410Y1, 411Y1, 419Y1, 421Y1

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 100Y1/105Y1, HIS 103Y1

Higher Years:

1. POL 208Y1 (must be taken in Second Year)
2. ECO 230Y1/342Y1, HIS 311Y1, 344Y1, POL 310Y1/312Y1/326Y1/340Y1

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 100Y1/105Y1; HIS 103Y1; PSY100HI/SOC101Y1

Second Year:

ECO 230Y1; POL 208Y1; UNI 260Y1

Third Year:

HIS 311Y1/344Y1; UNI 360Y

Fourth Year:

JUP 460Y1 plus

One full course equivalent from the following: HIS 458Y1, 473Y1, 479HI, 482HI, 488HI, 497Y1, 498HI; TRN 421Y1

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 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), all TRN courses are classified as HUMANITIES courses except TRN 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.

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.

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

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 MGT393H1/394H1 in which they have priority.)

Prerequisite: A student must be in third or fourth year. This is a Social Science course

TRN311H1 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/PHL267H1

TRN412H1 Seminar in Ethics, Society, and Law (formerly TRN312H1) 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: TRN312H1

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.

Independent Studies Courses

TRN299Y1 Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

TRN300H1 Trinity Independent Studies TBA

TRN301Y1 Trinity Independent Studies TBA

TRN302Y1 Trinity Independent Studies TBA

TRN400H1 Trinity Independent Studies TBA

TRN404Y1 Trinity Independent Studies TBA

TRN405Y1 Trinity Independent Studies TBA

International Relations Courses

(See the International Relations Program Office for details)

TRN410Y1 Selected Topics in International Studies TBA

Prerequisite: Enrolment in the International Relations specialist program or in a History or Political Science specialist program

Exclusion: TRN410H1

TRN411Y1 Selected Topics in International Studies TBA

Prerequisite: Enrolment in the International Relations program or in a History major or specialist program, or permission of instructor

TRN419Y1 Comparative American, British and Canadian Foreign Policy 52S

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

TRN421Y1 The Practice and Institutions of Diplomacy (formerly JHP420Y1) 52S

Evaluation of the nature of foreign policy negotiation and decision-making from the perspective of the practitioner. Prerequisite: ECO342Y1/HIS311Y1/POL312Y1

Other Trinity College Courses

TRN190Y1 Critical Reading and Critical Writing 52S

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.

TRN200YI Modes of Reasoning 26L, 26S
(formerly TRN200HI)

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

TRN320YI Freud and Freud's Critics 52S

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

Faculty

Professors

A. Iannucci, AM, Ph D (Drama)
P. Kleber, MA, Ph D (Drama)

Associate Professor

T. Homer-Dixon, BA, Ph D (Peace & Conflict Studies)

Assistant Professors

A. Ackerman, MA, Ph D (Drama)
A. Budde, MA, Ph D (Drama)
E. Gilbert, MA, Ph D (Canadian Studies)
A. Janson, MA (Drama)
L. Katz, BA, Ph D (Drama)
N. Kokaz, BA, Ph D (Peace & Conflict Studies)
J. Luo, MA, Ph D (Cognitive Science)
D. McGregor, MA, Ph D (Aboriginal Studies)

Senior Lecturers

S. Bush (Drama)
K. Gass, BA (Drama)

Lecturers

S. Lyons, BA (Drama)
A. McKay (Aboriginal Studies)
J. Plotnick, MA, M Sc (Writing Workshop)
R. Salutin, MA (Canadian Studies)
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 within either a Humanities or Social Science stream and 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 on health policy, practices, statistical methods, social and cultural expression, and the many areas of study that surround, interact with and support bio-medical research and clinical activity. The Major serves as a general introduction; the Specialist provides a more intense research focus with greater statistical 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: Program Office, University College, Room 173 (416-978-8746)

University College Programs

Aboriginal Studies - See Aboriginal Studies

Canadian Studies (Arts program)

Consult Program Office, Room 173, University College, 416-978-8746 or visit the Canadian Studies website at 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

Higher Years:

1. UNI 320Y1, 420Y1

- Six full course equivalents from either one of the two perspectives listed below. Course selections require approval from the Canadian Studies program 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:

- UNI 320Y1
- Four full course equivalents from either one of the two perspectives listed below, one of which must be a 300+series course. Course selections require approval from the Canadian Studies program office.

Minor program:

(4 full courses)

- 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
- UNI 220Y1; HIS 263Y1
- 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/.

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/.

Cognitive Science (Arts program)

Consult the Program Office, Room 173, University College, 416-978-8746 or visit the Cognitive Science website at 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 245H1/246H1/247H1; 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

Psychology: PSY370H1; two of PSY 312H1/316H1/371H1/372H1/380H1/393H1

Linguistics: two of JLP 315H1/374H1/471H1/LIN

323H1/331H1/341H1/372H1/423H1

Philosophy: PHL 342H1; two of PHL 325H1/326H1/340H1/344H1/345H1/347H1/349H1/351H1/479H1/480H1/481H1

- 0.5 additional full course equivalents from among the above listed courses not yet taken, or from the following list: 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 240H1/245H1/246H1/247H1

Second Year:

PSY 201H1/STA 220H1/250H1; PSY 270H1; PSY 210H1/280H1/290H1

Second and Higher Years:

Cognitive Science: UNI 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:

UNI450H1

Cognitive Science and Artificial Intelligence (Science program)

Consult the Program Office, Room 173, University College, 416-978-8746 or visit the Cognitive Science website at www.cogsci.utoronto.ca.

Admission in this program requires (1) 63% or better in CSC148H1/150H1 or 63% or better in UNI250Y1 or PSY100H1; and (2) a GPA of 2.0. Students enrolled in this

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:

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

First Year:

CSC 148H1/150H1, 165H1/240H1*; UNI 250Y1; MAT 135Y1/136Y1/137Y1/157Y1

Second Year:

CSC207H1, 236H1/240H1*; HPS 250H1; PSY 270H1;
* CSC240H1 is an accelerated alternative to CSC165H1 and CSC236H1, intended for students with a strong mathematical background. Consult the Computer Science undergraduate office for further advice.

Second and Higher Years:

STA 247H1/255H1/257H1
UNI 301H1/CSC 321H1, UNI 302H1; CSC 324H1; CSC 384H1; PSY 371H1

Two of the following course sequences:

Psychology Stream: PSY 201H1/210H1/280H1/290H1, 370H1/
STA220H1/250H1/261H1, two of PSY 312H1/316H1/
372H1/380H1/391H1/392H1/393H1/470H1/471H1/472H1/
473H1

Linguistics Stream: LIN 100Y1; two of JLP 315H1/374H1/LIN 323H1/331H1/341H1/372H1/423H1

Philosophy Stream: PHL 245H1/246H1, 342H1; 325H1/326H1/
340H1/344H1 (or CSC 438H1/MAT 309H1)/345H1/
347H1/349H1/351H1/355H1/HPS350H1, 451H1/479H1/
480H1/481H1

One additional half course from among the above listed courses not yet taken, or from the following list: CSC318H1, 320H1, CSC 321H1, 324H1, 340H1, 363H1/365H1, 373H1/375H1, 401H1, 420H1, 428H1, 448H1, 465H1, 485H1, 486H1, 487H1; JLP 471H1; PSY379H1, 389H1, 392H1, 396H1, 410H1, 472H1, 473H1. (With permission of the Program Director, the following may also be counted: CSC 494H1, 495H1; LIN 495Y1-499H1; PHL 390Y1, 395H1-397H1; PSY 303H1, 304H1, 400Y1, 401H1-404H1, 470H1, 471H1, 480H1, 490H1)

Third or Fourth Year:

UNI 450H1

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 LIN228H1, LIN323H1, and LIN423H1; in cognitive development PSY312H1, PSY410H1 and JLP315H1; in the brain PHL340H1, PSY290H1, PSY391H1, PSY393H1, and PSY490H1; in perception PSY280H1, PSY380H1, PSY480H1 and CSC487H1; in language and thought PHL 350H1, 450H1; LIN372H1, and CSC485H1; in psycholinguistics JLP315H1 and JLP471H1; in thinking and reasoning PHL247H1, PSY471H1, PSY472H1, PSY473H1, and CSC486H1.

Drama: see Drama

Health Studies (Arts program)

Consult Program Director Professor Lorne Tepperman, at lorne.tepperman@utoronto.ca, or contact the Program Office at University College, Room 173, 416-978-8746.

Specialist Program:

10 full courses or their equivalent, with at least one course in each grouping (see below). 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) UNI200Y1 (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. ANT100Y1, POL 102Y1/POL103Y1, PSY100H1, SOC101Y1.) A course in biology or physiology is also recommended.

Second Year:

UNI200H1, 210H1, plus two full courses (or equivalent) chosen from two different groupings (see below)

Third Year:

UNI300Y1; plus two full courses (or equivalent) chosen from two different groupings (see below)

Fourth Year:

UNI400Y1; plus three full courses (or equivalent) chosen from three different groupings (see below)

Major Program:

7.0 full courses or the equivalent, including at least two 300-series courses, with at least one course in each of five groupings below. 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. ANT100Y1, POL 102Y1/POL103Y1, PSY100H1, SOC101Y1.) A course in biology or physiology is also recommended.

Second Year:

UNI200H1, 210H1; plus two courses from two different groupings

Third and Fourth Years:

UNI300Y1; plus three courses from three different groupings, including UNI400Y1 if desired.

GROUP A - UNI COURSES

UNI370H1	Psychology of Physical Activity and Sport
UNI371H1	Physical Activity and Social Inequality
UNI373H1	Population Health
UNI409H1	Special Topics in Health Research**
UNI410H1	Communities and Community Health **
UNI440H1	Epidemiology**
UNI446H1	Case Studies in Health Policy
UNI450H1	Independent Research on Health Topics**

UNI451Y1	Independent Research on Health Topics**
UNI462H1	Health Care
UNI464H1	International Health
UNI470H1	Health Psychology
UNI471H1	Physical Activity, Health and the Media
UNI472H1	Body, Health and Culture
UNI473H1	Physical Activity in the Ancient and Early Modern World
UNI474H1	Health Topics in Literature **
UNI476H1	Socio-history of Health Processes**

GROUP B - ETHICS

PHL281Y1	Bioethics
PHL381H1	Ethics and Medical Research
PHL382H1	Ethics: Death and Dying
PHL383H1	Ethics and Mental Health
PHL384H1	Ethics, Genetics and Reproduction
PHL273H1	Environmental Ethics
PHL373H1	Issues in Environmental Ethics
PHL240H1	Persons, Minds and Bodies
PHL243H1	Philosophy of Human Sexuality
PHL295H1	Business Ethics

GROUP C - PHYSICAL AND MENTAL HEALTH

NEW367H1	Women and Health
SOC243H1	Sociology of Health and Illness
SOC246H1	The Sociology of Aging
ZOO200Y1	Aspects of Human Biology *
JFP450H1	First Nations Issues in Health and Healing
HMB202H1	Introduction to Health and Disease
NFS284H1	Basic Human Nutrition
NFS490H1	Socio-cultural Aspects of Nutrition
PSY333H1	Health Psychology
PSY335H1	Environmental Psychology
PSY336H1	Positive Psychology
JZP326H1	Biological Rhythms
PSY323H1	Sex Roles and Behaviour
PSY324H1	Social Psychology of Interpersonal Relationships
SOC363H1	Sociology of Mental Health and Mental Disorders

GROUP D - POLICY

ABS350Y1	Aboriginal Health Systems*
IDSB04H3	International Health Policy Analysis (UTSC course)
ANT362Y1	Anthropological Studies of Poverty, Social Inequality and the U.S. State *
HIS463H1	The History of Health Care in Canada, 1800 to the Present
POL347Y1	Politics and Environment in the North and South *
POL350H1	Comparative Health Politics and Policy
SOC309Y1	HIV and AIDS: Social Policies and Programs*
SOC244H1	Sociology of Health Care
SOC352H1	Introduction to Canadian Health Care Policy
SOC354H1	Emergent Issues in Health and Social Policies

GROUP E - ENVIRONMENTAL

INI341H1	Environment and Human Health
RLG311H1	World Religions and Ecology
JAG321H1	Aboriginal People and Environmental Issues in Canada
GGR330H1	Atmosphere and Human Health
GGR334H1	Water Resource Management
GLG103H1	Geology in Public Issues

HPS328H1	Environment, Science and Crisis
ANT364Y1	Environment & Globalization*
BOT202Y1	Plants and Society*
ENV200Y1	Assessing Global Change: Science and the Environment *
ENV236Y1	Human Interactions with the Environment *

GROUP F - SOCIAL/GLOBAL ISSUES

ANT348Y1	Anthropology of Health *
ANTC61H3	Medical Anthropology: Illness and Healing in Cultural Perspective (UTSC course)
SOC364H1	Urban Health
ANT364Y1	Environment & Globalization *
ANT342H1	Sexuality and Global Health
GLG205H1	Confronting Global Change
NFS490H1	Socio-Cultural Aspects of Nutrition
WDW378H1	Employment Health
SOC327Y1	Families and Health*

Asterisked (*) courses will fulfill the requirement of either of two group areas (but not both), as follows:

ABS350Y1	Aboriginal Health Systems (Group D and F)
ANT348Y1	Anthropology of Health (Group C and F)
ANT362Y1	Anth Studies of Poverty, Social Inequality (etc) (Groups D and F)
ANT364Y1	Environment & Globalization (Group E and F)
BOT202Y1	Plants and Society (Group E and F)
ENV200Y1	Assessing Global Change: Science and Environment (Group E and F)
ENV236Y1	Human Interactions with the Environment (Group E and F)
POL347Y1	Politics and Environment in the North and South (Group D and E)
SOC309Y1	HIV and AIDS: Social Policies and Programs (Group D and F)
SOC327Y1	Families and Health (Group C and F)
ZOO200Y1	Aspects of Human Biology (Group C and E)

Double asterisked (**) courses are new courses in the syllabus.

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 in the most recent four full year university courses taken. The Director approves each student's proposed program of study based on its relevance, coherence and focus.

Specialist program:

(11.5 to 12 full courses or their equivalent, including at least one 400-series course)

1. HIS 103Y1/ECO 100Y1/I05Y1; PSY 100H1/SOC 101Y1; POL 208Y1
2. UNI 260Y1, 360Y1, JUP 460Y1
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, 232YI, 241HI, 242HI, 243HI, 244HI, 250YI, 251YI, 271YI, 303YI, 311YI, 317HI, 319HI, 325HI, 333YI, 334YI, 338YI, 343YI, 344YI, 351HI, 352HI, 355HI, 356HI, 370HI, 372YI, 377YI, 379HI, 386YI, 390YI, 396HYI, 401YI, 405YI, 407HI, 412YI, 414HI, 421YI, 424HYI, 429YI, 436HYI, 442YI, 445YI, 451HI, 453HI, 458YI, 461HI, 473HI, 475HI, 480HI, 488HI, 491YI, 492YI, TRN421YI

Group B

JHP 440YI, JPE 400YI, POL 108YI, 201YI, 216HI, 242YI, 300HI, 301YI, 304HYI, 305YI, 310YI, 312YI, 313YI, 321HYI, 323YI, 324YI, 326YI, 340YI, 342HI, 343YI, 345HI, 346HI, 347YI, 354HYI, 358YI, 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

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, INI 333HI, 422HI, 494HI, JIE 222YI, PHL 273HI, 373HI

Group E

ANT 100YI, 204YI, 328HI, 329YI, 343YI, 349HI, 362YI, 363YI, 364YI, 366YI, 368HI, 369HI, 425HI, 426HI, 427HI, 440YI, 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, 235HI, 240HI, 244HI, 271HI, 273HI, 275HI, 278HI, 340HI, 341HI, 342HI, 357HI, 370HI, 373HI, 375HI, RLG 333HI

Major program:

(6.5 to 7 full courses or their equivalent)

1. HIS 103YI/ECO 100YI/105YI; PSY 100HI/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, 445YI; HPS 306HI; PHL 278HI; POL 201YI, 304HYI, 310YI, 313YI, 321HYI, 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 Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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.
This is a Humanities or Social Science course.

**SOC218YI Asian Communities in Canada 52L
(formerly SOC342YI)**
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 342YI/394YI
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

UNI220YI 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 220YI 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.
This is a Humanities or Social Science course.

UNI307YI 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 220YI

**UNI317YI/ 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: ABS201YI/POL102YI/103YI/UNI220YI 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 Debates 52L

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

UNI420Y1 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 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: UNI220Y1 or two courses on the study of Canada

Cognitive Science & Artificial Intelligence Course

UNI250Y1 Introduction to Cognitive Science 78L (formerly JUP250Y1)

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: JUP250Y1

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: UNI250Y1

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: UNI250Y1

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: Enrolment in the Cognitive Science or Cognitive Science and Artificial Intelligence Program, and permission on the instructor

Exclusion: JUP450HI

Health Studies Courses

Enrolment in UNI courses listed under Health Studies is restricted to students enrolled in the Health Studies program.

UNI200HI Introduction to Research Methods in Health Studies 78L (formerly UNI200Y1)

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 242Y1, SOC 200HI, UNI200Y1, WDW 350Y1

This is a Social Science course

UNI210HI Introduction to Statistical Analysis in Health Studies 78L (formerly UNI200Y1)

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 242Y1, SOC 202HI, UNI200Y1, WDW 350Y1

This is a Social Science course

UNI300Y1 Introduction to Social and Health Care Policy 52L, 26T

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

Prerequisite: UNI 200HI, 210HI

This is a Social Science course

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

The following 400-series courses are open only to students enrolled in the Health Studies program or those who have received approval of the Program Director.

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

Recommended Preparation: UNI 300YI

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: UNI300YI, 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

UNI451YI 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 200HI, 210HI

Recommended Preparation: UNI 300YI

This is a Social Science course.

UNI470HI 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

UNI471HI 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 301HI/UNI 371HI

Exclusion: PHE 402HI
This is a Social Science course

UNI472HI 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 403HI
This is a Social Science course

UNI473HI 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 423HI
This is a Social Science course

UNI474HI 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.

UNI476HI 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 course.

UNI480HI 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: UNI200HI, 210HI
Recommended Preparation: UNI 300YI
This is a Social Science course.

Peace and Conflict Studies Courses

UNI260YI Introduction to Peace and Conflict Studies (formerly UNII10YI) 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: UNII10YI
This is a Social Science course

UNI360YI Topics in Peace and Conflict 52L

An in-depth exploration of selected issues introduced in UNI260YI. 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: UNI260YI or permission of the instructor
Recommended preparation: POL208YI
This is a Social Science course

JUP460YI Contemporary Issues in Peace and Conflict (formerly UNI460YI) 52S

A colloquium (fall session) and research seminar (winter session) on the changing meanings of security. Concepts to be considered, and to be applied in research, range from the unconventional (feminist theorizing, the GAIA hypothesis) to the familiar (collective security, deterrence). (Offered by University College and the Department of Political Science)

Exclusion: UNI460YI
Prerequisite: POL208YI, UNI260YI and UNI360YI, or permission of instructor and Program Director
This is a Social Science course

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.

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

University College

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 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 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

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.

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 45 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

Other University College Courses

JUM202HI Mathematics as an Interdisciplinary Pursuit 26L, 13T (formerly JUM102HI)

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 and Poetry 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

Urban Studies: see Innis College

Faculty

Professors Emeriti

- A. Baines, MD, PhD (Vic One)
- D. Duffy, MA, PhD (Vic One)
- R. Hutchinson, MA, ThD (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 (Semiotics)
- K. Eisenbichler, MA, Ph D (Renaissance Studies)
- P. Thompson, PhD (Vic One)

Associate Professors

- E. Cazdyn, PhD (Literary Studies)
- R. Comay, PhD (Literary Studies)
- 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)
- N. Terpstra, MA, PhD (Renaissance Studies)

Assistant Professors

- 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

- S. Cook, Ph D (Vic One)
- 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). All first-year students in the Faculty of Arts and Science, 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

(Major, Minor and Joint Specialist with Philosophy) 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.

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.

Victoria College Programs

Literary Studies (Arts program)

Consult Professor J. Levine or Professor J.W. Patrick, Victoria College

Enrolment in the Literary Studies program is open to students upon completion of four courses; no minimum GPA required.

Major program:

(7 full courses or their equivalent, including at least one 400-level course)

1. JEF100Y1 or approved equivalent.
2. VIC 201Y1, 210Y1, 310Y1,
3. At least 1.5 full courses from VIC 300HI/Y1, VIC 301HI/Y1, VIC 311Y1, VIC 401Y1, VIC 410HI/Y1, VIC 411HI/Y1, JNV 300HI, and if appropriate,
4. A maximum of 1.5 full courses, chosen in consultation with and approved by the Program Coordinator, from the offerings of the university's departments and college programs.

Minor program:

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

Four courses from: JEF100Y1, VIC 201Y1, 210Y1, 211Y1, 300HI/Y1, 301HI/Y1, 310Y1, 311Y1, 401Y1, 410Y1, 411HI/Y1, JNV 300HI and a half-course chosen in consultation with the Program Coordinator.

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. The seven courses of the Literary Studies Major program (above)
2. Six Philosophy courses, at least three of them 300+ series. It is strongly recommended but not required that courses in the following areas be included:
One Introductory
1/2 Logic

Two History of Philosophy
1/2 Ethics/Social and Political Philosophy
One Epistemology/Metaphysics
1/2 Aesthetics/Philosophy of Literature

3. Normally the 14th course will be a senior essay (PHL 490Y or VIC 490Y) written under the supervision of faculty members from Philosophy and Literary Studies or a faculty member approved by Philosophy and Literary Studies

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 240Y1
2. Six additional full course equivalents from the Major program.
3. One Research Course (a 299Y1, 399Y1, 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 440Y1
2. Equivalent of two full credits from: VIC 240Y1, 341HI, 343Y1, 344HI, 345HI, 346HI, 347Y1, 348Y1, 349HI/Y1, 449HI/Y1.
3. One full course equivalent in Literature from: ENG 220Y1, 243Y, 301HI, 302Y1, 303HI, 304Y1, 330HI, 332Y1, 333HI, 440Y1, 455HI; FRE 320Y1, 359HI, 419HI, 420HI; ITA 249HI, 312HI, 325HI, 332HI, 356Y1, 370HI/Y1, 409HI, 426HI, 470HI; PRT 351HI; SPA 352HI, 452HI, 454HI.
4. One full course equivalent in History or Economics from: ECO 301Y1; HIS 243HI, 303Y1, 309HI, 357Y1, 362HI, 403HI, 412Y1, 438HI, 441HI, 443HI/Y1.
5. One full course equivalent in Art or Music from: FAH 274HI, 277HI, 306HI, 307HI/Y1, 308HI/Y1, 324HI/Y, 325Y1, 326HI/Y1, 332Y1, 333HI, 335HI, 339HI, 341HI, 342HI, 352Y1, 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 240Y1, 341HI, 343Y1, 344HI, 345HI, 346HI, 347Y1, 348Y1, 349HI/Y1, 440Y1, 449HI/Y1.
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 100Y1, LIN 100Y1, PHL 100Y1, PHL 102Y1, SOC 101Y, RLG 101Y.
2. Three full course equivalents from: VIC 220Y1, 223Y1, 320Y1, 323Y1.
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 100Y1, LIN 100Y1, PHL 100Y1, PHL 102Y1, SOC 101Y, RLG 101Y.
2. Two full course equivalents from: VIC 220Y1, 223Y1, 320Y1 and 323Y1.
3. One full course equivalent from from Groups A-E.

Note: JFV 323HI is a recommended Group E courses.

Group A: Anthropology

ANT 204Y1, 253HI, 323HI/Y, 328HI, 329Y1, 334Y1, 351HI, 356HI, 366Y1, 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, 236Y1, 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; JUP250Y1

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 200Y1, 230Y1, 260HI, 262HI, 264HI, 266HI; ENG 290Y1, 366Y1; 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 212Y1, 214Y1, 225Y1, 301Y1, 322HI, 323Y1, 327Y1, 329Y1, 330Y1, 423HI, 426HI, 428HI; JFV 323HI; MUS 200HI, 211HI, 303HI; NEW 240Y1, 261Y1, 271Y1, 302Y1, 303HI, 360Y1, 368HI, 371HI, 372HI; POL 213Y; RLG 200Y1, 210Y1, 211Y1, 230Y1, 232HI, 233HI, 237Y1, 301HI, 302HI, 304HI, 315HI, 380HI; SMC 210Y1, 402HI; SOC 365Y1, 367HI, 381Y1, 388HI; UNI 221HI, 250Y1, 255HI, 355HI; JUM 200Y1; VIC 210Y1, 211Y1, 300Y1, 310Y1, 322HI, 343Y1, 345Y1, 410Y1, 411Y1.

Victoria College Courses

Vic One, Vic First, Literary Studies; Renaissance Studies; Semiotics; Other.

See page 31 for Key to Course Descriptions.

Vic One

Consult Vic One Liaison Officer, Michelle Mitrovich, Victoria College 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 100Y1

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 100Y1
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 & JEF100Y1
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 & JEF100Y1
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 150Y1 & VIC 171Y
This is a Humanities or Social Science course.

VIC171Y1 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: VIC 182HI, VIC 183HI, VIC 184HI, 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: VIC 181HI, VIC 182HI, VIC 184HI & 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: VIC 181HI, VIC 182HI, VIC 183HI & 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

VIC 101Y1 Conflict Theory and Practice 52L, 26P

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.

Co-requisite: ECO 100Y
This is a Social Science course.

VIC 102Y1 Ethics and the Public: Case Studies 52L, 26P (formerly VIC182HI)

The course studies the nature of society and the questions of ethics posed by political action. Emphasis on case studies of social issues.

Co-requisite: POL 103Y
Exclusion: VIC182HI
This is either a Humanities or a Social Science course.

VIC 103Y1 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 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: 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

This is a Humanities course.

VIC 111Y1 Introduction to Material Culture 52L, 26P

Objects and artifacts provide an interesting way to study culture. The presentation of objects to museums and galleries and elsewhere, transmits the culture to society. This course introduces students to material culture using the ROM, the Gardiner and other established resources.

Co-requisite: VIC 112Y

This is either a Humanities or a Social Science course.

VIC 112Y1 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-requisites: One of ANT 100Y1/HPS 100Y1/VIC 111Y1.

This is either a Humanities or a Social Science course.

VIC 114Y1 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: HIS109Y1

This is a Humanities course.

Literary Studies Courses

For Distribution Requirement purposes (see page 25), all VIC Literary Studies courses are classified as HUMANITIES courses.

VIC201Y1 Ancient and Medieval Literary Modes: Conventions and Continuities 52L

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 will include a selection from Aboriginal, Asian, Hebrew and Babylonian creation myths, epic narratives (*Gilgamesh*, *The Iliad*, *The Odyssey*, *The Aeneid*); history and law (*Hammurabi's Code*, the Hebrew Pentateuch, Herodotus, Tacitus); drama (Aeschylus, Sophocles); lyric poetry, songs, spells (the Hebrew psalms, Egyptian Book of the Dead, Sappho); philosophy and theology (Plato, Aristotle, Augustine, Muhammad); Dante.
Exclusion: VIC110Y1

VIC210Y1 Literary Studies II: Empire, Literature and Modernity 52L, 26T

The rise of modern European literatures in various contexts - colonialism, humanism, literacy, nation-states, democratic movements, ideologies, individualism - which prompted development of new literary genres and sub-genres, figures, personae and filiations. Authors and texts may include: Petrarch, Montaigne, Shakespeare's *The Tempest*, Cervantes' *Don Quixote*, Milton's *Paradise Lost*, Juana Ines de la Cruz, Defoe's *Robinson Crusoe*, Wheatley, Rousseau, Wollstonecraft, Goethe, Claire de Duras, Bremer, Tolstoy, Haggard, Pauline Johnson, Chekhov.

VIC300HI/Y1 Special Topics: Literary Studies 26S

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: VIC 110Y1/201Y1/210Y1/211Y1/301H/1Y1/310Y1/311Y1/JNV300H/instructor's approval

VIC 301HI/Y1 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: VIC 110Y1/201Y1/210Y1/211Y1/300HI/Y1/310Y1/311Y1/JNV300H/instructor's approval

VIC310Y1 Literary Studies III: Reading the Twentieth Century and After 52L, 26T

The avant-garde and its querying of language, representation, and interpretation. In the first term, intensive study of Joyce's *Ulysses*. In the second term, works by writers such as Borges, Robbe-Grillet, Brecht, Gombrowicz, Beckett, Levi, Wolf, Garcia Marquez, Shalamov, Spiegelman, Sebald.

VIC 311HI/Y1 Literature and Film: Issues of Translation and Adaptation 26L/52L

Cinematic readings of various literary genres (eg. epic and lyric poetry, folk tale, biblical narrative, novel, short story). The focus will be on cross-cultural translation in a wide variety of cinematic styles and forms, such as classic Hollywood film, animation, film noir, neo-realism, surrealist film. Authors studied may include Homer; Ovid, Shakespeare, Flaubert, Rilke, Mann.
Exclusion: INI328Y1 and VIC 211Y1

VIC410Y1 Seminar in Comparative Studies 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 from the European tradition.
Prerequisite: Two of VIC 110Y1/201Y1/210Y1/211Y1/300HI/Y1/301HI/Y1/310Y1/311HI/401Y1/Y1/411HI/Y1/JNV300HI or instructor's approval.

VIC411H1/Y1 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: VIC110Y1/201Y1/210Y1/310Y1/a course in the study of literature

VIC 401Y1 Special Topics in Comparative Literature 26S

This course offers senior students in Literary Studies the opportunity to take part in a graduate seminar in Comparative Literature. Topics change annually.
Prerequisite: Two of VIC 110Y1/201Y1/210Y1/211Y1/300H1/Y1/301H1/Y1/310Y1/311Y1/410Y1/JNV300H1 AND instructor's approval.

JNV 300H1 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

Renaissance Studies Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), all VIC Renaissance Studies courses are classified as HUMANITIES courses.

VIC240Y1 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.

VIC341H1 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.

VIC343Y1 Sex and Gender (formerly VIC343H1) 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: VIC343H1

VIC344H1 Renaissance Narrative (formerly VIC242H1) 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: VIC242H1

VIC345H1 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 346H1 Orpheus in the Italian Renaissance 26S

A study of Orpheus as portrayed in art, music, poetry, and philosophy of the Italian Renaissance.

VIC 347Y1 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 240Y1, or another course in Renaissance Studies.

VIC 348Y1 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 240Y1, or another course in Renaissance Studies.

VIC 349H1/Y1 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 240Y1, or another course in Renaissance Studies.

VIC440Y1 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 240Y1 or permission of instructor

VIC 449H1/Y1 Advanced Seminar in the Renaissance 26L, 13P/52L, 26P

An in-depth study in an aspect of the Renaissance based around lectures, seminars, and readings. Content in any given year depends on instructors. See annual course listing for the year's theme.
Recommended preparation: VIC 240Y1, or another course in Renaissance Studies.

Semiotics Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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 100Y1, LIN 100Y1, PHL 100Y1, PHL 102Y1, 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: ANT100Y1, LIN 100Y1, PHL 100Y1, PHL 102Y, SOC100Y1, RLG 101Y.

Exclusion: Vic 120Y1

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 120Y1/VIC223Y1, VIC 220Y1

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 120Y1/VIC 223Y1, VIC 220Y1.

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: FRE240Y1/VIC 120Y1/VIC 223Y1

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 323Y1, VIC 120Y1/VIC 223Y1, VIC 220Y1/221Y1/VIC 320Y1.

Exclusion: VIC420Y1

VIC 351HI Learning Communities and Higher Education in Canada 26S

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.

VIC390Y1/ 391HI Victoria College Independent Studies TBA

VIC490Y1/ 491HI Victoria College Independent Studies TBA

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

Other Victoria College Courses

VIC299YI Research Opportunity Program

Credit course for supervised participation in faculty research project. See page 45 for details.

VIC350YI Creative Writing: A Multicultural Approach 52S

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 discussions. Work by many writers from contemporary and traditional literatures are read in English translation.

Prerequisite: four credits

This is a Humanities course

Visual Studies: see Fine Art

Faculty

Professors

J. Alexander, BSW, MA, PhD
A. Keith, BA, PhD
K.P. Morgan, BA, MA, MEd, PhD

Associate Professors

E.K. Armatage, BA, MA, PhD
B. McElhinny, BA, PhD
S. Mojab, BA, MEd, PhD
M. Nyquist, BA, MA, PhD
K. Rittich, Mus Bac, LLM, SJD

Assistant Professors

M. Murphy, BA, MA, PhD
V. Napolitano-Quayson, BSc, PhD
J. Taylor, BA, MA, PhD
A. Trotz, BA, MA, PhD

Senior Lecturers

J. Larkin, BA, MEd, PhD

Lecturers

L. Manicom, BA, MA

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

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, JNV300HI, WGS425Y1, WGS434HI, WGS435HI, WGS440HI, WGS451HI, WGS460Y1, WGS461Y1, WGS462HI, WGS463HI, WGS465HI, WGS470Y1

Group A: (Women and gender relations)

ANT343Y1; CLA219HI, CLA220HI; EAS452HI, EAS 453HI; ENG233Y1, ENG307HI, ENG309HI; FAH444HI; FCS294HI, FCS497HI; FRE304HI, FRE404HI; GER421HI; GGR327HI; HIS202HI, HIS245Y1, HIS306Y1, HIS352HI, HIS354Y1, HIS363HI, HIS366Y1, HIS383HI, HIS418HI, HIS431HI, HIS439HI, HIS446Y1, HIS452HI, HIS481HI, HIS483Y1; ITA455HI; JAL355HI; JHP440Y1; JPP343Y1; NEW240Y1, NEW325HI; NMC284HI, NMC484HI; PHL243HI, PHL267HI; POL315HI, POL344Y1, POL432Y1, POL351Y1, POL450Y1, POL480HI; PSY323HI; RLG 236HI, RLG237HI, RLG314HI, RLG315HI; SLA 248HI, SLA453HI; SOC365Y1, SOC366HI, SOC367HI, SOC383HI; SPA382HI; VIC341HI, VIC343Y1, VIS209HI

Group B: (General interest)

ANT329Y1, ANT427HI; EAS339HI; ENG273Y1, ENG290Y1; FCS395HI; GGR362HI, GGR363HI; HIS341Y1, HIS430Y1, 459HI; INI 327Y1; ITA493HI; NEW302Y1, NEW424Y1; NMC276Y1; PHE 403HI; PHL281Y1, PHL384HI; POL 216HI; PRT351HI; SOC207Y1, SOC214Y1, SOC215Y1, SOC220Y1, SOC375Y1; SPA380HI; TRN311HI, TRN320Y1; UNI255HI, UNI354HI, UNI355HI, UNI371HI; VIC210Y1; VIS310HI

Women and Gender Studies

Women and Gender Studies Courses

For Distribution Requirement purposes (see page 25) all WGS courses are classified as Humanities courses except WGS261Y1 and 425Y1, which are Social Science courses.

100-Series Courses

During the first round of enrolment, WGS160Y1 is subject to certain enrolment restrictions. Please refer to the 2006-2007 Registration Handbook & Timetable.

WGS160Y1 Introduction to Women and Gender Studies (formerly NEW260Y1) 52L, 26T

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: NEW260Y1/WGS260Y1

200-Series Courses

During the first round of enrolment, WGS262Y1 is subject to certain enrolment restrictions. Please refer to the 2006-2007 Registration Handbook & Timetable.

WGS261Y1 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

WGS262Y1 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: NEW160Y1/WGS160Y1

WGS271Y1 Gender, Race and Class in Contemporary Popular Culture (formerly NEW371H1) 26L

A critical examination of institutions, representations and practices associated with contemporary popular culture, mass-produced, local and alternative.

Exclusion: NEW371H1

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/ 334HI/ 335HI Special Topic in Women and Gender Studies 26L

An upper level seminar. Subjects of study vary from year to year. Recommended preparation: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1

WGS336HI Selected Topics in Cultural Studies 26L

An upper level course. Topics vary from year to year. Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1

WGS362HI Selected Topics in Gender and History 26S

An upper level seminar. Subjects of study vary from year to year. Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1

WGS363HI Selected Topics in Gender and Theory 26S

An upper level seminar. Subjects of study vary from year to year. Prerequisite: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1

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: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1

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: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1/NEW271Y1/WGS271Y1/NEW367H1/WGS367H1

Recommended preparation: WGS240Y1/WGS372H1/WGS374H1/PHL384H1/POL315H1/POL344Y1/ SOC373H1/SOC374H1/UNI 255H1/355H1

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: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1

WGS368HI Gender and Cultural Difference: Transnational Perspectives (formerly NEW368Y1) 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: NEW160Y1/WGS160Y1/NEW261Y1/WGS261Y1/permission of the instructor

Exclusion: NEW368Y1

WGS369Y1 Studies in Post-Colonialism (formerly NEW369H1) 52L

Gendered representations of race, ethnicity, class, sexuality and disability in a variety of colonial, neo-colonial, and "post"-colonial contexts. Topics may include the emergence of racialist, feminist, liberatory and neoconservative discourses as inscribed in literary texts, historical documents, cultural artifacts and mass media.

Women and Gender Studies

Prerequisite: NEW160YI/WGSI60YI/NEW261YI/WGS261YI/
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: NEW160YI/WGSI60YI/NEW261YI/WGS261YI/
permission of the instructor

WGS373HI Gender and Violence 26L

Gendered violence in both historical and contemporary contexts including topics such as textual and visual representations of violence against women; victimhood and agency; legal and theoretical analyses; resistance and community mobilization.

Prerequisite: NEW160YI/WGSI60YI/NEW261YI/WGS261YI/
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: NEW160YI/WGSI60YI

**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: NEW160YI/WGSI60YI/NEW261YI/WGS261YI

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, 20 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: NEW160YI/WGSI60YI, POL201YI
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/ Advanced Topics in Women and
435HI Gender Studies 26S**

An upper level seminar. Topics vary from year to year depending on instructor.

Recommended preparation: NEW160YI/WGSI60YI, 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: NEW160YI/WGSI60YI/NEW261YI/WGS261YI
Exclusion: NEW435HI/WGS435HI, winter session 2005.

**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

**WGS460YI Advanced Research Seminar in
Women and Gender Studies TBA**

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/WGSI60YI and one full
Women and Gender Studies 300+/400+ level course.

**WGS461YI Advanced Topics in Women and
Gender Studies 52S**

An upper level seminar. Topics vary from year to year depending on the instructor.

Prerequisite: NEW160YI/WGSI60YI 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/WGSI60YI, 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/WGSI60YI, one full course at the 300+
level in Women and Gender Studies

**WGS465HI Special Topics in Gender
and the Law 26S**

Senior students may pursue advanced study in gender and law. Topics vary from year to year.

Prerequisite: NEW160YI/WGSI60YI, NEW365HI/WGS365HI,
or permission of the instructor

**WGS470YI Women and Gender Studies
Practicum 52S**

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/WGSI60YI and at least one full Women
and Gender Studies 300+/400+ level course

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

Associate Professors

J.W. Browne, MA
S.Wortley, MA, Ph D

Assistant Professor

R. Levi, BCL, LLB, LLM, SJD

Senior Lecturers

J.B. Rose, BA, MA
T.P. Socknat, BAE, MA, PhD

Lecturers

W.B. MacDonald, BA, MA
L. Riznek, MA, PhD
W.Watson, BSc, PhD

Adjunct Professor

R.F. Barnhorst, BA, LLB, JSD

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.

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/PSY/SOC
2. WDW 200Y1, 220Y1
3. WDW 300HI, 320HI, 335HI, 340HI, 350YI
4. One full credit from: WDW 310HI, 360HI, 365HI, 370HI, 375HI, 380HI, 385HI, 387HI, 390HI, 391HI, 392HI, 393HI, 394HI, 395HI, 396HI, 397YI, 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 332YI; PSY 201HI, 202HI, 220HI, 240HI, 328HI; SOC 212YI, 213YI, 306YI, 358HI; TRN 305YI; 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/PSY/SOC
2. WDW 200Y1, 220Y1
3. Two full credits from: WDW 300HI, 310HI, 320HI, 335HI, 340HI, 350YI, 360HI, 365HI, 370HI, 375HI, 380HI, 385HI, 387HI, 390HI, 391HI, 392HI, 393HI, 394HI, 395HI, 396HI, 397YI, 400HI, 405HI, 420HI, 480HI
4. Two full credits from: HIS 332HI, 355HI; PHL 271HI, 370HI; POL 332YI; PSY 201HI, 202HI, 220HI, 240HI, 328HI; SOC 200YI, 200HI, 202HI, 212YI, 213YI, 306YI, 358HI; TRN 305YI; 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; HIS 313HI; MGT 460HI; WDW 260HI, 430YI
3. ECO 239Y1/339YI
4. ECO 220Y1/PSY (201HI and 202HI)/SOC 200Y1/(200HI and 202HI)
5. ECO 221Y1/321Y1/HIS 263Y1/POL 102Y1/103YI
6. MGT 120HI/223HI/SOC 207Y1/317Y1/339HI/367HI/370YI/375Y1/WDW 344HI/345HI/346HI/347HI/348HI/349HI/367HI/378HI/396HI/397YI

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. WDW 244HI; MGT 460HI; WDW 260HI, 430Y1
3. ECO 239Y1/339Y1/HIS 313HI/MGT 120HI/223HI/
SOC 207Y1/317Y1/339HI/367HI/ 370Y1/375Y1/WDW
344HI/345HI/346HI/347HI/ 348HI/349HI/367HI/378HI/
396HI/397Y1

Woodsworth College Courses

See page 31 for Key to Course Descriptions.

For Distribution Requirement purposes (see page 25), 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/PSY/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

WDW300HI 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. Approval of the Undergraduate Co-ordinator is required.

WDW310HI 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

WDW320HI 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

WDW335HI 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

WDW340HI 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, 200HI, 202HI

Prerequisite: An average of at least 70% in WDW200Y1 and 220Y1 combined, and a CGPA of 2.5. Approval of the Undergraduate Co-ordinator is required.

WDW360HI 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

WDW365HI 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

WDW370HI 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

WDW375HI Young Offenders 39L

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

WDW380HI Crime and Gender 39L

Theoretical and policy discussions of the ways in which criminal law and the criminal justice system regulate gender and sexuality. Topics such as violence against women, abortion, prostitution, pornography and sexual orientation are considered, leading to an analysis of gender issues in modern states by feminist, legal and political theorists.
Prerequisite: WDW200Y1, 220Y1

WDW385HI Representing Crime & Authority 39L

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

WDW 387HI Legal Regulation of Morality 39L

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

WDW390HI/ Topics in Criminology 39L
391HI/
392HI/
393HI/
394HI

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

WDW395HI Independent Study TBA

Independent study under the direction of a Criminology faculty member.
Prerequisite: WDW200Y1, 220Y1. Approval of the Undergraduate Co-ordinator is required.

WDW400HI Current Issues in Criminology 26S

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: Two 300-level WDW half-courses in Criminology. Approval of the Undergraduate Co-ordinator is required.

WDW405HI Risk, Uncertainty & Criminal Justice 26S

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: Two 300-level WDW half-courses in Criminology. Approval of the Undergraduate Co-ordinator is required.

WDW410HI History of Canadian Criminal Justice 26S

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

WDW415HI Crime and Politics 26S

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

WDW420HI Current Issues in Criminal Law 26S

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: Two 300-level WDW half-courses in Criminology. Approval of the Undergraduate Co-ordinator is required.

WDW435HI Seminar in Policing 26S

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

WDW440HI Seminar in Penology 26S

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

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, 350Y1, 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: Two 300-level WDW half-courses in Criminology. Approval of the Undergraduate Co-ordinator is required.

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: ECO244Y1, WDW244Y1

Prerequisite: Four courses and a CGPA of at least 2.0

WDW260HI Organizational Behaviour 39L

Introduction to 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

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

WDW 378HI 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: ECO244Y1/WDW244HI/244Y1, WDW260HI/260Y1, enrolment in an Employment Relations program

Other Woodsworth College Courses**WDW299YI Research Opportunity Program**

Credit course for supervised participation in faculty research project. See page 45 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.

Prerequisite: Completion of at least nine full courses. A

CGPA of at least 3.0 is recommended. Approval of the Undergraduate Coordinator is required.

Writing and Rhetoric: see Innis College

Writing at University

(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, the university 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:

ENG100HI (Effective Writing) and ENG269YI (Writing: Purposes, Strategies, Processes) are listed under “English” in this Calendar.

TRN190YI (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/writingprogram.htm. Its offerings include the following courses, all listed under “Innis College”: INI203YI (Foundations of Written Discourse), INI204YI (The Academic Writing Process), INI300YI (Strategic Writing: Theory and Practice), INI301HI (Contemporary Issues and Written Discourse: Rhetoric and the Print Media in Canada), INI304HI (The Illusion and Reality of Evidence), INI305H (Modern Ekphrasis: Word and Image in the Twentieth Century), INI311YI (Seminar in Creative Writing and Literary Translation), and INI412YI (Prose Style across Genres).

The University of Toronto at Mississauga (UTM) offers a program in Professional Writing and Communication. For more information, see the program’s website at www.utm.utoronto.ca/academic/profwp/index.html. 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), WRI390HI and WRI391HI (Independent Studies), and WRI392HI (Research and Writing)

WRT Courses are CREDIT/NO CREDIT courses that provide opportunities for senior students to develop advanced writing skills in their disciplines. These courses count for degree credit but no grades are awarded and so evaluation will not affect GPA. There will be a tuition charge. 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, PSY309HI, PSL497HI

WRT306HI 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 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 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, Rooms 2045 and 2047, www.ncwriting.ca

Philosophy Department Writing Clinic, 215 Huron Street, 10th Floor, 416-978-3314

St. Michael’s College Writing Centre, Kelly Library, Rooms 230 and 231, 416-926-1300, press 1, x 3456#

Trinity College Writing Centre, Larkin Building, Room 302, www.trinity.utoronto.ca/Writing/

University College Writing Workshop, Laidlaw Library, Room 214, 416-978-8090

Writing at University

Victoria College Writing Workshop, various locations,
www.vicu.utoronto.ca/English/Victoria-College-Writing-Workshop.html.

Woodsworth College Academic Writing Centre, Room 214, www.wdw.utoronto.ca/writing.

Self-Help Material

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. It offers over 60 specialized files giving advice on university writing, along with links to other useful online resources, and it gives current information on writing instruction at U of T.

Yiddish: see Germanic Languages & Literatures

Zoology: see Life Sciences: Zoology

Rules & Regulations

Rules and Regulations

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Rules & Regulations

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, observance of exceeded courses, etc., for completion of Program details, for proper observance of degree requirements, 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.

Important Notices

Changes in Programs of Study

The subject POSTs, or programs of study, that our *Calendar* lists and describes are available for the years 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 reasonably possible advance notice and alternative instruction will be given. The University, however, will not be liable for any loss, damages, or other expenses that such changes might cause.

Changes in Courses

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, and timetables without prior notice.

Changes in Regulations & Policies

The University has several policies that are approved by the Governing Council and that apply to all students. As well, the Faculty has rules and regulations that apply to all students registered in courses and programs offered by the Faculty. The Faculty's rules and regulations are presented in the pages that follow and applicable University policies are either fully displayed or listed in the subsequent pages of the *Calendar*. The University and Faculty assume that each student has become familiar with the policies. 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 the rules, regulations, and policies cited in the *Calendar*, as amended from time to time.

Calendar and Registration Handbook & Timetable 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 Registration Handbook & Timetable, and to withdraw courses or sections for which enrolment or resources are insufficient. The University will not be liable for any loss, damages, or other expenses that such limitations or withdrawals might cause.

Copyright in Course Lectures

If a student wishes to tape-record, photograph, video-record or otherwise reproduce lecture presentations, course notes or familiar 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 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.

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 of \$43.00; for each day thereafter the fee is an additional \$5.00.)

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."

Rules & Regulations

Taking Courses Outside the Faculty

Courses at UTSC and UTM

Students registered on the St. George campus of the Faculty of Arts and Science may enrol in most courses offered by UTM and UTSC, 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 UTM and UTSC 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.

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 at Mississauga or the University of Toronto at Scarborough only.

See the section on petitions and appeals starting on page 463 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.artsandscience.utoronto.ca/current/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.artsandscience.utoronto.ca/current/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
www.utoronto.ca/student.exchange

Summer Abroad Program
Room 231, Woodsworth College, 119 St. George St.
416-978-8713
summer.abroad@utoronto.ca
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.

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 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;

Rules & Regulations

- 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. 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 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 transcripts and may not re-register at the University until these accounts are paid.

Fees for International Students

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 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

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.artsandscience.utoronto.ca

Admissions and Awards web site: www.adm.utoronto.ca/fal

or the College Registrars' offices and web sites.

Sanctions on Account of Outstanding Obligations

The following are recognized University obligations:

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

The following academic sanctions are imposed on Arts and Science students with outstanding University obligations:

- Official transcripts of record will not be issued;
- 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.

Rules & Regulations

Course Marks

Term Work and Term Test Regulations

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 467 (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 461 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 Committee on Academic Standards 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 return date of the work. 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 Committee on Academic Standards. 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 subsession. 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 464). 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, programmable 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..
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 at the discretion of the instructor.
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

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

Grading Regulations

Grading Scale

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.

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: 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.

Grades Review Procedure

The Committee on Academic Standards 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.

Appeals and Petitions

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

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

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, 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 457.

Petitions Regarding Term Work (see also page 459)

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

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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 460)

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.

Reassessment of Marks

Reread of Final Examination

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.artsandscience.utoronto.ca/current/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

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.artsandscience.utoronto.ca/current/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

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

1. 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

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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 of T 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

Address information (mailing and permanent) must be viewed and changed on the Student Web Service (at 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 SWS.

E-Mail Address

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 UTOEmail account is mandatory.

T-Card

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

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

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, including a student's total academic record at the University. Students may request consolidated transcripts on the Web at: 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 Grading Practices Policy

Purpose

The purpose of the University Grading Practices Policy is to ensure:

- a) that grading practices throughout the University reflect appropriate academic standards;
- b) that the evaluation of student performance is made in a fair and objective manner against these academic standards;
- c) 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

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

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

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 available upon request from the Office of the Provost.

Part I: Grades

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.

- 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 461) 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;

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- 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 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

- 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;
- 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,

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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 committed if the person ought reasonably to have known.

B.I. Offences

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

- I.
 - 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

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 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

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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;
 - 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;
 - 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.

Rules & Regulations

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

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.

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

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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.

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.

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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 at 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/tgcl3.01.07.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

P.K. Sinervo, F.R.S.C.

Vice-Dean - Academic

A. Lancashire, B.A., A.M., Ph.D.

Vice-Dean - Graduate Education and Research

M.S. Gertler, BA, MCP, Ph D

Vice-Dean - Undergraduate Education and Teaching

S. Howson, M.A., M.Sc., Ph.D.

Assistant Dean - Human Resources

P. McCann, B.A., M.A., M.Ed.

Assistant Dean/Faculty Registrar and Secretary

G.E. Altmeyer, MA, MLS

Assistant Dean and Director - Planning and Information Technology

M. Contreras

About the University, the Faculty and the Colleges

Governing Structure of the Faculty

The Faculty of Arts and Science Council

The Faculty of Arts and Science Council considers the future policy of the Faculty and reviews the action of its Standing Committees and sub-committees, chief of which is the General Committee. The Council consists of all professors, full-time lecturers, senior tutors and tutors appointed to departments of the Faculty of Arts and Science, together with the student members and ex-officio members of the General Committee.

The General Committee

The General Committee is the major committee of the Faculty Council and is responsible for the formulation of policy for the Faculty of Arts and Science. Full details of its membership, and that of its Standing Committees, are in a brochure "Faculty Structure and Rules of Procedure", available at the Office of the Dean.

The Faculty has been exploring changes to its governance structure, some of which may be implemented in spring 2006. Please see the online description of the Faculty's governance structure at www.artsandscience.utoronto.ca/governance/ for the most up-to-date information.

Elections to Faculty Committees

Students

A nominee may run for only one office (although elected members of the curriculum committees and the Committee on Study Elsewhere shall also be seated on the General Committee). Each student may vote for nominees from only one College in the elections to the General Committee. Each student may also vote for nominees to the Committee on Study Elsewhere. A full-time student may also vote for the eligible number of nominees to the respective Curriculum Committee, except that in the election for the Committee on Social Sciences, the representative for Commerce and Finance will be elected by students in that program; other full-time students will vote for three members. Part-time students may also vote for one nominee to any one of the curriculum committees.

Nominations

Nominations to fill vacancies at the beginning of the winter session are made in the last half of September. Nominations may be made for the following academic year at the beginning of February. Nomination forms will be available from Departments, Registrars' Offices and from the Office of the Dean. Advertisements appear in The Varsity, Voice, and The Bulletin, as well as on placards posted in various buildings.

About the University, the Faculty and the Colleges

The Colleges

Innis College

Principal

J. Paterson, Ph D, FRSC

Vice-Principal and Academic Coordinator

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

D. Clandfield, MA, D Illé C

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

D. Montini, BAS, CGA

Director, Writing Centre

G.A. MacDonald, MA, M Phil, Ph D

Alumni Development Officer

B.A. Registe, BA

Senior Development Officer

K. Mehta, BA, BEd

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 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

Website: www.newcollege.utoronto.ca

About the University, the Faculty and the Colleges

St. Michael's College

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, BS, MA, Ph D

Registrar

TBA

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.

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 OR Dean of Women, Loretto College at 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. 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 www.utoronto.ca/stmikes

Trinity College

Chancellor

TBA

Provost and Vice-Chancellor

M. MacMillan, BA, B. Phil, D. Phil

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, 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

About the University, the Faculty and the Colleges

(978-8454). The College includes its Library, Chapel, cafeteria, dining halls, common rooms, theatre, and sports facilities. Nearly 24% 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 theatre, a new 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>

University College

Principal (till June 30, 2005)

P.J.G.O. Perron, BA, DdeL'U, Ch PA

Vice-Principal

S. Bashevkin, MA, Ph D

Registrar

G.A. Loney, MA, Ph D

Associate Registrar

S. Cornack

Assistant Registrar

J. Rodriguez

Dean of Students

N. Robinson, M Ed

Chief Administrative Officer

K.A. Boyd, MBA, CPA

Executive Director, Alumni & Development Affairs

T. Shuster

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.

Victoria College

Chancellor

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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

Administrative/Business Officer and Vic Programs Coordinator

J.L. Welsh

Registrar

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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

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

About the University, the Faculty and the Colleges

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 Ned's. Further information about residences may be obtained by writing to the Dean of Students, Victoria College, Toronto, Ontario, M5S 1K7.

E-mail: registrar.victoria@utoronto.ca

Web site: <http://vicu.utoronto.ca>

Woodsworth College

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

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

- 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 and Mexico; 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 or check 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.

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 3000 part-time students, who enrol in the full range of Arts and Science courses and programs

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