

Contents

1	Important Information	4
2	Sessional Dates	6
3	Admission Information	7
3.1	Admission Requirements	7
3.2	Admission Requirements for Applicants from Ontario Secondary Schools	7
3.3	Admission from Secondary Schools Outside Ontario	7
3.4	Admission with Transfer Credit: College or University	7
3.5	Admission of U of T Mississauga Students to a 2nd Bachelor's Degree Program	8
3.6	Admission Restricted to Part-time	8
3.7	Admission 'On Probation'	8
3.8	Admission as a Non-Degree Student	8
3.9	Admission of External Students to a Second Bachelor's Degree Program	9
3.10	Admission as Non-Degree Visiting Students	9
3.11	Mature Student Admission	9
3.12	Admission of Senior Citizens	9
3.13	Application Forms and Information	9
3.14	English Facility Requirement	9
3.15	Transferring from Another U of T Division or Faculty	10
4	Student Accounts and Scholarships	10
4.1	Fees	10
4.2	Payment of Fees	10
4.3	Scholarships and Awards	11
4.4	Government Financial Aid (OSAP)	11
4.5	Grants	12
5	Student Organizations	12
6	Services for Student Success	12
6.1	International Centre (IC)	12
6.2	Robert Gillespie Academic Skills Centre	12
6.3	AccessAbility Resource Centre	12
6.4	Advising and Counselling: Academic, Personal, Financial	13

6.5	Campus Police	13
6.6	Career Centre	13
6.7	Department of Physical Education, Athletics and Recreation	14
6.8	Conference and Event Services	14
6.9	Student Affairs and Services	14
6.10	Health and Counselling Centre	15
6.11	Libraries	15
6.12	Office of the University Ombudsperson	16
6.13	Quality Service to Students (QSS)	16
6.14	The Office of the Registrar	16
6.15	Student Housing and Residence Life	16
6.16	Women's Centre	17
6.17	Central Student Services	17
7	General Regulations	17
7.1	Responsibilities of Students	17
7.2	Registration Regulations	18
7.3	Course Regulations	20
7.4	Enrolling in Courses in other U of T Divisions	22
7.5	Courses at Other Universities	22
7.6	Professional Experience Year	23
7.7	Language Citation Program	24
7.8	Transcripts	24
7.9	Term Work Regulations	25
7.10	Term Tests	26
7.11	Declaration of Absence at U of T Mississauga for any reason	26
7.12	Examinations	27
7.13	Statement of Results	29
7.14	Academic Honesty	29
7.15	Grades	30
7.16	Petitions, Appeals, Deferrals	32
8	Degree Requirements	34
8.1	Degrees Offered	34
8.2	Graduation	34
8.3	Academic Information Sources	34
8.4	Second Degree Requirements	34
8.5	Distribution Requirements	35
8.6	Honours Bachelor of Science – HBSc – Degree Requirements	35
8.7	Honours Bachelor of Arts – HBA – Degree Requirements	36
8.8	Bachelor of Commerce – BCom – Degree Requirements	37

8.9	Bachelor of Business Administration – BBA – Degree Requirements	37
8.10	Bachelor of Education - BEd - Degree Requirements	38
9	Programs	38
9.1	Program: Definition, Enrolment, Types, Requirements	38
9.2	Self-Designed Program of Study	39
9.3	Symbols and Terms Used in Program Descriptions	39
9.4	Alphabetical Listing of Programs and Courses	40
9.5	Departmental Structure and Programs	322
10	Course Descriptions	326
10.1	Course Key	326
10.2	Symbols Used in Course Descriptions	327
10.3	Research Opportunity Program (299Y, 399Y and 499Y)	327
11	Publications (Electronic and Paper)	327
12	Officers: U of T Mississauga and University of Toronto	328
13	Codes and Policies	328
13.1	Guidelines Concerning Access to Student Academic Records	328
13.2	Discipline Codes	331
13.3	Summary of Code of Student Conduct	334
13.4	University Grading Practices Policy	337

1 Important Information

This calendar provides information for the University of Toronto Mississauga only. Every effort is made to have this information complete and correct at the time of publication; however, from time to time information does change. Check www.utm.utoronto.ca/regcal for updates or consult the Office of the Registrar.

Staff and faculty advisors are always available to give guidance to students; however, it must be clearly understood that the ultimate responsibility rests with the student for completeness and correctness of course selection; for compliance with prerequisite, corequisite and exclusion requirements, or other course entry requirements; for completion of program requirements; for proper observance of distribution requirements; and for observance of regulations, deadlines, etc. **Students are responsible for seeking guidance from a responsible university officer** if they are in any doubt regarding a course of action. **Misunderstanding or incorrect advice received from another student will not be accepted as cause for dispensation from any regulation, deadline, program or degree requirement.** If you are unsure, please seek assistance.

Calendar Updates

For updates to this calendar, see the **Amendments Page** of the online version at www.utm.utoronto.ca/regcal. Please note that not all courses listed in this calendar are offered every year. For a complete listing of courses offered this academic year, see the timetable at www.utm.utoronto.ca/timetable.

Changes in Programs of Study and/or Courses

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

For each program of study offered by the University, 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, prerequisites and corequisites, grading policies, requirements for promotion and timetables without prior notice.

Regulations and Policies

As members of the University of Toronto community, students assume certain responsibilities and are guaranteed certain rights and freedoms. The University has several policies that are approved by the Governing Council and which apply to all students. 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 University are listed in this calendar. In applying to the University, the student assumes certain responsibilities to

the University and, if admitted and registered, shall be subject to all rules, regulations and policies cited in the calendar, as amended from time to time.

University policies can be found in this calendar (Section 13) or online at: www.governingcouncil.utoronto.ca/policies

Those which are of particular importance to students are:

- Code of Behaviour on Academic Matters
- Code of Student Conduct
- Grading Practices Policy
- Policy on Official Correspondence with Students

More information about students' rights and responsibilities can be found at

life.utoronto.ca/get-help/rights-responsibilities

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 Instructional Settings

If a student wishes to record, photograph, or otherwise reproduce lecture presentations, course notes or other similar materials provided by instructors, he or she must obtain the instructor's written consent beforehand. Otherwise all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by students with disabilities, the instructor's consent will not be unreasonably withheld.

Person I.D. (Student Number)

Each student at the University is assigned a unique identification number. The number is confidential. The University, through the Policy on Access to Student Academic Records, strictly controls access to Person I.D. numbers. The University assumes and expects that students will protect the confidentiality of their Person I.D.s.

Fees and Other Charges

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

Notice of Collection of Personal Information

The University of Toronto respects your privacy. Personal information that you provide to the University is collected pursuant to section 2(14) of the University of Toronto Act, 1971. It is collected for the purpose of administering admission, registration, academic programs, university-related student activities, activities of student societies, financial assistance and awards, graduation and university advancement, and for the purpose of statistical

reporting to government agencies. At all times it will be protected in accordance with the Freedom of Information and Protection of Privacy Act. If you have questions, please refer to **www.utoronto.ca/privacy** or contact the University Freedom of Information and Protection of Privacy Coordinator at 416-946-7303, McMurrich Building, Room 201, 12 Queen's Park Crescent West, Toronto, ON, M5S 1A8.

Eligibility for Registration

Receipt of registration material, or any campus publication, submission of a registration form, or payment of fees, does not necessarily constitute eligibility to register in the coming session. Students who are suspended will be so informed and will not be permitted to register. Any fees paid toward the session will be refunded in full.

No Smoking Policy

Smoking is not allowed in any building at U of T Mississauga.

2 Sessional Dates

For More Dates and Information

This list contains key Academic Deadline dates. Students should also consult the complete listings of REGISTRATION, FINANCIAL and PETITION deadline dates that are published in the Summer and Fall/Winter Registration Guides. These guides are available in the Office of the Registrar or online at www.utm.utoronto.ca/guides.

This information was up-to-date at the time of printing. From time-to-time changes in this content may occur. Please consult www.utm.utoronto.ca/reg for any updates or the online amendments page of this calendar at www.utm.utoronto.ca/regcal.

2012

May 07	Summer Session classes begin in all F and Y Courses
May 13	Last day to add F & Y courses for Summer Session
May 21	Victoria Day Holiday - University closed
June 18	Classes end in F courses for Summer Session
June 19 - July 08	Study Break for Summer Session Y courses
June 20 - 22	Final Exams for F courses for Summer Session
July 02	Canada Day Holiday - University closed
July 09	Summer Session classes begin in S courses; Y courses resume
July 15	Last day to add S courses for Summer
August 06	Civic Day Holiday - University closed
August 20	Classes end in S and Y courses, Summer Session
August 22 - 24	Final Exams for S and Y courses, Summer Session
September 03	Labour Day Holiday - University closed
September 10	Fall Session classes begin in F and Y courses
September 23	Last day to add F & Y courses for Fall-Winter Session
October 08	Thanksgiving Day Holiday - University closed
December 03	Classes end in F & Y courses
December 04 - 09	Study Break
December 10 - 21	Final Exams for F Session courses. Term tests may be held in Y courses
December 24 - January 06	December Holiday - University closed

2013

January 07	Winter Session S courses begin and Y courses resume
January 20	Last day to add S courses for Winter
February 18	Provincial Holiday (Family Day) - University closed
February 19 - 22	Reading Week - No Classes University is open
March 29	Good Friday Holiday - University closed
April 05	Last day of classes for S & Y courses
April 09 - 14	Study Break
April 15 - 28	Final Exams for S & Y courses

3 Admission Information

3.1 Admission Requirements

Information on admissions requirements can be found at www.adm.utoronto.ca* or by contacting the University of Toronto Mississauga's Recruitment and Admissions Office at:

Office of the Registrar
University of Toronto Mississauga
3359 Mississauga Road
Room 2115, William G. Davis Bldg.
Mississauga, ON L5L 1C6
Canada
Tel: 905-828-5400

*** The admissions qualifications outlined are the minimum qualifications. Meeting them does not guarantee admission to the University.**

Applications may be considered from candidates whose qualifications do not meet the minimum requirements, but such candidates will have to offer written evidence of exceptional ability or extenuating circumstances.

3.2 Admission Requirements for Applicants from Ontario Secondary Schools

Applicants **must** be eligible to receive the Ontario Secondary School Diploma, with six Grade 12 U or M courses (or equivalent) including 12U English/Anglais (ENG4U/EAE4U – applicants from French-language high schools may substitute FEF4U/FIF4U or equivalent.), and meet any prerequisites for their intended program of study.

For details, consult the U of T Mississauga Admission Requirements outlined at www.adm.utoronto.ca. Additional information may be found at www.utm.utoronto.ca/prospective.

Please note: These are minimum requirements only; meeting them does not guarantee admission to the University of Toronto Mississauga.

3.3 Admission from Secondary Schools Outside Ontario

We encourage applications from all qualified students. Applicants must present a satisfactory academic record equivalent to the Ontario Secondary School Diploma, from recognized academic institutions and meet the published academic requirements to be considered. Full details can be found at www.adm.utoronto.ca.

Applicants whose first language is not English, and who have studied full time in an English language

school system for less than four years, must present proof of English facility. For details, please visit www.adm.utoronto.ca.

Canadian Students

Applicants from Quebec must present the Diplôme d'études collégiales (DEC) with 12 academic CEGEP subjects including English/Anglais (two terms) or the Quebec high school diploma with six Grade 12 academic subjects, including English. Students from other Canadian provinces and territories must present Grade 12 graduation. Details of specific requirements can be found at www.adm.utoronto.ca.

U.S. Students

Applicants studying in the American system must present Grade 12 graduation with high scores in SAT Reasoning or ACT examinations and at least three SAT Subject Tests and/or APs in subjects appropriate to their proposed area of study. Details are available at www.adm.utoronto.ca.

International Students

Applications from international students are encouraged. Specific requirements are outlined at www.adm.utoronto.ca.

3.4 Admission with Transfer Credit: College or University

Candidates who have acceptable standing at other universities, post-secondary colleges or University of Toronto faculties or schools may be considered for admission with transfer credit provided that the content of the studies previously taken is considered appropriate for inclusion in a degree program offered by U of T Mississauga.

College Studies

U of T Mississauga grants a maximum of 3.0 transfer credits to students who have studied at a publicly-funded Ontario College for four full-time semesters (or equivalent). Students who have completed six full-time semesters (or equivalent) receive a maximum of 5.0 transfer credits. Exceptions occur where students are completing college programs with specific collaborative transfer agreements with U of T Mississauga.

University Studies

Students who have studied at an accredited university can receive a maximum of 10.0 transfer credits, however, those who have already completed a university degree (or more than 12.5 university credits) may only receive a maximum of 5.0 transfer credits.

Transfer Credit Assessment

Admitted students will be considered for transfer credit for any previous post-secondary studies. For information about the Transfer Credit Assessment process visit www.utm.utoronto.ca/transfer.

Note: Regardless of the number of transfer credits granted, five of the six 300/400-level courses required for an Honours Bachelor of Arts, Honours Bachelor of Science, Bachelor of

Business Administration, or Bachelor of Commerce degree, must be completed at U of T with suitable standing.

Internal Applicants

Candidates with acceptable standing at U of T Scarborough or the Faculty of Arts and Science (St. George Campus) who are admitted to U of T Mississauga do not need to apply for Transfer Credit Assessment. Instead their courses and grades will automatically be retained when they transfer to U of T Mississauga and will remain on their academic record.

Candidates with acceptable standing at other University of Toronto undergraduate divisions (Applied Science and Engineering, Music, Physical Education and Health) who are admitted to U of T Mississauga **MUST** apply, and pay, for Transfer Credit Assessment at www.utm.utoronto.ca/transfer.

Appealing a Transfer Credit Assessment

Students have **one year** from the date of their Transfer Credit Assessment, or from the date of their first registration at U of T Mississauga, whichever is later, to request a reassessment or adjustment. The same time limit applies to all departmental interviews and submission of course outlines and syllabi.

Distribution Requirements

Courses taken at another university for which you have received transfer credit must be considered to be of the appropriate division to meet distribution requirements. For example: a psychology course taught as a social science at another university will be considered a social science for distribution requirement purposes at U of T Mississauga.

See also Distribution Requirements (Page 35)

3.5 Admission of U of T Mississauga Students to a 2nd Bachelor's Degree Program

Students who have completed their first degree at U of T Mississauga and wish to be admitted to a second degree should seek academic advising in the Office of the Registrar.

See also Second Degree Requirements (Page 34)

3.6 Admission Restricted to Part-time

Students restricted to a reduced course load on admission may take a maximum of 2.5 credits in the Fall-Winter session and a maximum of 1.0 credits in the Summer session. After they have passed at least 4.0 credits at U of T Mississauga with a Cumulative Grade Point Average of 2.30, these students may request to study full time by petition through the Office of the Registrar.

3.7 Admission 'On Probation'

Students who have previously studied in other faculties or institutions and who do not meet U of T Mississauga's requirements for admission may, on appeal, be admitted because of extenuating circumstances. They may be given a clear offer of admission or they may be subject to the following conditions:

- They may be admitted "On Probation," in which case they will be "On Probation" until the end of the first Fall-Winter session in which they are registered.
- At the end of the first Fall-Winter session they will be assessed as follows:
 1. Students with a cumulative grade point average (CGPA) of 1.50 or more will be in good standing;
 2. Students with a CGPA of less than 1.50 will be suspended for one calendar year. Upon return they will remain "On Probation," and will be under the regulations for academic status outlined in Academic Status of the University of Toronto Mississauga Calendar.
- While on probation, students are not eligible to enrol in courses for transfer credit at another university or postsecondary institution.
- Students on probation are at risk of academic suspension. They are strongly urged to consult an academic advisor in the Office of the Registrar before registering for courses. They should consider a reduced course load during the Fall-Winter session and should avoid compressed, intensive summer courses.

3.8 Admission as a Non-Degree Student

Non-degree students are those who are registered in degree courses, but are not progressing towards a degree. Non-degree students have completed degree studies at an accredited institution and are taking further courses for their own purposes, including admission to graduate studies or professional programs. Students admitted as degree students cannot become non-degree students at U of T Mississauga until they have completed an honours degree. Further information and applications are available at www.adm.utoronto.ca

Please note: The University of Toronto Mississauga may not always have sufficient capacity to admit non-degree students. Management (MGM and MGT) courses are not available to non-degree students.

3.9 Admission of External Students to a Second Bachelor's Degree Program

Applicants who hold a bachelor's degree, or equivalent, from another university, and who wish to complete a second undergraduate degree in a different field, may apply for admission into a 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 or professional program. To apply, check the University of Toronto's admissions website at www.adm.utoronto.ca, the University of Toronto's Graduate Studies website at www.sgs.utoronto.ca or the Ontario Universities' Application Centre website at www.ouac.on.ca.

Note: Students who have a degree with a Major/Specialist in Commerce, Management or Economics cannot do a BCom or BBA as a second degree. This is due to the extensive overlap of courses between these degrees. In addition, students may not complete a second undergraduate degree in the same field as their first degree. For admission to a second degree as an internal applicant, see Second Degree Requirements (Page 34).

3.10 Admission as Non-Degree Visiting Students

Students with valid "Letters of Permission" (or who can provide an official transcript showing they are in good academic standing) from another accredited Canadian university may register at the University of Toronto Mississauga as Non-Degree Visiting Students,* taking courses for transfer credit at their home university. Non-Degree Visiting Student status does NOT imply future acceptance as either a degree student, or a non-degree student at U of T Mississauga. Further information and applications are available at www.utm.utoronto.ca/prospective

*Former U of T students who were registered at U of T Mississauga but did not complete their U of T degree must re-register at U of T Mississauga to take courses as a visiting student on any U of T campus.

3.11 Mature Student Admission

Canadian citizens or Permanent Residents of Canada who are at least 21 years of age and who have resided in Ontario for at least one year, **but do not** hold the published admission requirements, may be eligible to 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 the University of Toronto.

Please consult U of T Mississauga's Admissions and Recruitment Office at 905-828-5400 for more information.

3.12 Admission of Senior Citizens

Canadian citizens or permanent residents of Canada who are at least 65 years of age by October 1, for admission to the Fall-Winter session, and by May 15, for admission to the Summer session, may apply for admission to U of T Mississauga as part-time, non-degree students, if they already have a degree from a recognized (accredited) university.

If the applicant does NOT have a degree, or another basis of admission, they may apply as "Special Students - Seniors" through the Office of the Registrar. They would then be allowed to take courses for which they have the prerequisites OR courses that have no prerequisites.

After successfully completing 4.0 credits, these students may apply to become degree students.

For further information call 905-828-5399 or visit www.utm.utoronto.ca/reg.

Please Note: Senior citizens must pay tuition fees, but are eligible for an exemption of compulsory non-academic incidental fees.

3.13 Application Forms and Information

Applications for **degree studies** are available at www.ouac.on.ca

Information on studying at U of T Mississauga is available from:

Recruitment & Admissions
University of Toronto Mississauga
3359 Mississauga Road N.
Rm. 2115, William G. Davis Bldg.
Mississauga, ON L5L 1C6
Canada
Tel: 905-828-5400
www.utm.utoronto.ca/prospective

3.14 English Facility Requirement

Applicants whose first language (i.e. the language learned at home as a child) is not English may have to present proof of English facility. For details visit www.adm.utoronto.ca.

Some students whose first language is not English, and whose language proficiency test scores fall within a discretionary range for admission, may be admitted with the condition that they successfully complete an Academic and Cultural English (ACE) program (by the end of their first Fall-Winter session) offered by the School of Continuing Studies at U of T Mississauga. More information is available at learn.utoronto.ca.

Students who do not meet language proficiency requirements for admission should consider completing the School of Continuing Studies English as a Second Language (ESL) program. Students who successfully complete level 60 of this program will be considered for admission.

3.15 Transferring from Another U of T Division or Faculty

Students transferring from another University of Toronto division or faculty apply using an internal application available at www.adm.utoronto.ca. Such students must follow the degree requirements and observe the course exclusions in the U of T Mississauga calendar.

U of T graduates may not obtain a second University of Toronto degree of the same degree type (i.e. a student cannot obtain a second U of T Honours BA but could pursue studies toward an Honours BSc). For details see Second Degree Requirements (Page 34).

4 Student Accounts and Scholarships

4.1 Fees

Fees are established by the Governing Council and set out in detail on the Student Accounts website (www.fees.utoronto.ca). Fees normally consist of tuition, incidental and ancillary fees (including items such as shuttle bus, Health and Counselling Centre, athletics, student services, and student organizations). Fees are subject to change at any time by approval of the Governing Council.

Tuition fees are higher for deregulated programs. (See www.fees.utoronto.ca for fee structure.)

Students are not refunded the deregulated fees they have already paid if they choose to withdraw from one of these areas of study in their upper years.

Students in the **Concurrent Teacher Education Program** pay regular tuition fees for their HBA or HBSc programs, and also pay for the BEd program, with these costs spread equally over the five years of the program.

Fee levels are based on the normal length of time it takes to complete a full-time program, i.e. four consecutive years for a BBA/BCom/HBA/HBSc and five years for CTEP students in the joint HBA/HBSc/BEd program. Students who stay for more than the normal length of time for their program may face higher tuition fee levels in the subsequent years.

This information is intended only as a general guide. For detailed information please consult the Student Accounts website (www.fees.utoronto.ca).

4.2 Payment of Fees

All fee payments are to be made through a financial institution and NOT at the Office of the Registrar. Fees can be paid online, by telephone banking or in person through financial institutions that offer these services. For help on how to do this, consult the Student Accounts website (www.fees.utoronto.ca) for details.

Payment Deadlines

Payment of fees is required to complete registration. If you do not pay or defer your fees, you risk being removed from your courses. Help and details on how to avoid losing your place in classes are outlined in the U of T Mississauga Summer and Fall-Winter Registration Guides.

Students who have outstanding accounts may not receive official transcripts and may not register again at the University until these accounts are paid in full. Students owing fees may have their registration cancelled at any time.

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

Sanctions on Account of Outstanding Obligations

The following are recognized University obligations:

1. Tuition fees;
2. Academic and other incidental fees
3. Residence fees and charges
4. Library fines
5. Bookstore accounts
6. Loans made by colleges, faculties or the university
7. Health and Counselling Centre account;
8. Office of the Registrar accounts
9. Unreturned or damaged instruments, materials and equipment;
10. Orders for the restitution, rectification or 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 will be imposed on students with outstanding University obligations:

1. Official transcripts of record will not be issued.
2. The University will not release either the official document (normally called a diploma) which declares the degree, diploma or certificate earned nor provide oral confirmation or written certification of degree or enrolment status to external enquirers. Indebted graduands will be allowed to participate in convocation and have their names appear in the convocation program.
3. Registration will be refused or withdrawn to continuing or returning students.

4.3 Scholarships and Awards

Recognition of Exceptional Academic Achievement

Dean's List

This designation is given to U of T Mississauga degree students having a Cumulative Grade Point Average (CGPA) of 3.50 or higher, at the end of the Fall-Winter or Summer Session in which the fifth, tenth, fifteenth and twentieth credit offered by the university has been passed. The dean sends a letter of commendation to each student having achieved this level of performance. Students who satisfy these criteria but do not receive the letter at the end of the appropriate session should contact the Office of the Dean. (Dean's List letters are not issued at the end of the Fall Session.)

High 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.

Distinction

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.

Scholarships

U of T Mississauga scholarships are awarded to degree students on the basis of one or more of the following criteria: academic merit, volunteer experience, student involvement and/or financial need. Awards may be in the form of a monetary gift, plaque or medal. Many of U of T Mississauga's awards recipients are automatically selected based on the criteria, however, there are several awards that require applications. Additional information on scholarships and other awards is available through the Office of the Registrar website at www.utm.utoronto.ca/awards and from the Office of the Registrar, Room 2122, William G. Davis Bldg., 905-828-5399.

4.4 Government Financial Aid (OSAP)

The Ontario Student Assistance Program (OSAP) is available to Ontario residents who are Canadian citizens, permanent residents, or Protected Persons, to assist with educational and living expenses in the form of loans, grants, bursaries and scholarships. OSAP loans are interest-free and non-repayable while the student remains enrolled in at least a 60% course load at all times throughout the year. No averaging of course loads is permitted. For example, if a student enrolls in 80% of a course load in the first term and 40% in the second term, the course loads cannot be averaged to 60%. In this case, the student would be ineligible for loans or interest relief in the second term.

Information concerning eligibility and assessment criteria may be obtained from University of Toronto Admissions and Awards Office, 416-978-2190, or www.adm.utoronto.ca, or from the OSAP website at osap.gov.on.ca.

Students may apply for OSAP online at osap.gov.on.ca. It is recommended that returning students apply for OSAP assistance by May 31 and that new students apply by June 15; however, applications are accepted until 90 days prior to the end of the Fall/Winter session (provided that a student is registered in both the Fall and Winter term). If a student is registered in a single term only [i.e., Fall (Sept.-Dec.) session, Winter (Jan.-April) session or Summer session (May-Aug.)] he/she must apply for OSAP within the first 30 days of the first day of classes for that specific academic term.

Students from other Canadian provinces or the United States should apply through their provincial or governmental financial aid authority. Links to financial aid programs are available at the Admissions and Awards website, www.adm.utoronto.ca.

Bursary for Students with Disabilities

Non-repayable assistance is available from the federal and provincial governments for OSAP recipients who have educational expenses as a result of a documented permanent disability. Information and applications are available from the U of T Mississauga AccessAbility Resource Centre, 905-569-4699 or the University of Toronto Admissions and Awards Office, 416-978-2190.

Ontario Work-Study Plan

This program is funded by the university and the Ministry of Training, Colleges and Universities, and provides on-campus, part-time employment to students with financial need. Eligibility information and applications are available each September from www.adm.utoronto.ca or from the Office of the Registrar at U of T Mississauga, Room 2122, William G. Davis Bldg., 905-828-5399. Job postings may be found on the Career Centre website, www.utm.utoronto.ca/careers, starting in September.

Part-Time Assistance

A number of programs are available to students who study on a part-time basis. These include government programs such as the Ontario Special Bursary Program, Part-time Canada Student Loans and Canada Study Grants for High-need Part-time Students. Other forms of assistance, such as the Noah Meltz Bursary, may also be available. More information can be obtained at the University of Toronto Admissions and Awards website at www.adm.utoronto.ca.

4.5 Grants

Students who have explored all other avenues of financial assistance (e.g., family support, OSAP, lines of credit, part-time employment, etc.) and still have unmet financial need may apply for a University of Toronto Grant. The online application is available at www.utm.utoronto.ca/awards from late October to March 1. Please visit the website and see the Scholarships and Financial Aid notice boards at U of T Mississauga for details of other grants and bursaries.

5 Student Organizations

U of T Mississauga has a wide range of student organizations, including student governments, academic societies and clubs spanning social, academic, service, culture, faith and athletic interests. Visit www.utm.utoronto.ca/groups for an up-to-date listing and links.

Student positions, along with faculty and staff positions, are available on the Erindale College Council, the primary decision-making body at U of T Mississauga, as well as on its boards and committees. Students may contact the council secretary or their U of T Mississauga student governments for more information. Visit www.utm.utoronto.ca/ecc for further information.

6 Services for Student Success

6.1 International Centre (IC)

This centre supports international students with their transition to academic and student life at U of T Mississauga. Through one-on-one advising, community development and peer-support programs, the International Centre helps contribute to the vitality of campus life at U of T Mississauga. At the Centre, students can find assistance with:

1. issues related to study permits, citizenship and immigration
2. issues related to their cultural and academic experience at U of T Mississauga
3. resources for study-abroad and exchange programs
4. English language conversation practice
5. getting connected to the international student community on campus.

For more information visit www.utm.utoronto.ca/international
Room 3093A, William G. Davis Building
Tel. 905-569-4716
E-mail: international.utm@utoronto.ca

6.2 Robert Gillespie Academic Skills Centre

The Robert Gillespie Academic Skills Centre (RGASC) assists all members of the U of T Mississauga community in fulfilling the university's educational mandate. The centre offers a wide variety of seminars and interactive workshops, including many sessions designed for specific disciplines and individual courses, as well as one-to-one consultations on all aspects of academic work. Faculty, a dedicated group of experienced peer mentors, and study group facilitators will work with students to improve their skills in areas such as: understanding learning styles; essay and report writing; time management; lecture-listening; note-taking; and studying for tests and exams. Special academic support is available for students for whom English is a second language.

A major focus of the RGASC is the academic transition of incoming first-year students. To facilitate this transition, the centre provides a very popular Head Start program every August, and other unique programs during the first year. All centre events and services are free. Please visit our website to learn more.

The centre is located on the third floor of the Hazel McCallion Academic Learning Centre, Suite 390K. For more information, please contact:

Tel: 905-828-3858

E-mail: academicskills.utm@utoronto.ca

Web: www.utm.utoronto.ca/asc

6.3 AccessAbility Resource Centre

U of T Mississauga and the AccessAbility Resource Centre are committed to the full participation of students with disabilities in all aspects of campus life.

The centre provides academic accommodations and services to students who have a physical, sensory, or learning disability, mental health condition, acquired brain injury, or chronic health condition, be it visible or hidden. Students who have temporary disabilities (e.g., broken dominant arm) are also eligible to receive services. All interested students must have an intake interview with an advisor to discuss their individual needs.

Services to students include:

- alternative test and examination arrangements
- note-taking and other volunteer services
- access to a learning strategist for students with learning disabilities, ADD and acquired brain injuries
- print materials in accessible formats (e.g. audio tape, e-text, Braille)
- evaluation of needs for assistive technology
- access to registered psychologists for psychoeducational assessments and consultations

- computerized notetaking and sign language interpreter services
- referrals to professionals within the U of T Mississauga campus, the university and the community.

For more information please visit:
Room 2047, William G. Davis Bldg.
Tel/TTY: 905-569-4699
E-mail: access.utm@utoronto.ca
Web: www.utm.utoronto.ca/access

6.4 Advising and Counselling: Academic, Personal, Financial

Academic

Academic advising is available through individual academic departments and the Office of the Registrar. Departmental advisors offer detailed information on their respective programs (specialists, majors and minors) and individual courses. Many departments offer brochures, handbooks or websites that contain supplemental information to that contained within this calendar. Any student who has a problem relating to the content of a course or conduct of an instructor, and cannot resolve the concern directly with the instructor, should notify the departmental advisor. Contact information is noted with the program information above the departmental descriptions in the course descriptions section of this calendar.

The Office of the Registrar's academic advisors provide information related to degree requirements, university rules and regulations, interpretation of the calendar, and personal or academic concerns that influence academic performance.

To see an academic advisor, please go to the:
Office of the Registrar
Room 2122, William G. Davis Bldg.
Tel: 905-828-5399 Web: www.utm.utoronto.ca/advising

Personal

Free, confidential appointments with a personal counsellor are available to all U of T Mississauga students through the Health and Counselling Centre. Students are seen for many reasons including interpersonal relationships, difficulties with family, body image, eating disorders, anxiety and depression. Assistance is also available for family care concerns including parenting issues and managing with aging/unwell parents. Talking with a counsellor can often help students more clearly understand their personal situations, and identify ways of coping with personal concerns. Students can make an appointment for counselling by contacting the Health and Counselling Centre. (Note: psychiatric counselling is also available through the Health and Counselling Centre.)

Room 1123, William G. Davis Bldg.
Tel: 905-828-5255
(Also see Health and Counselling Centre (Page 15))

Financial

Students needing information and/or assistance in meeting the costs of their education are encouraged to contact the Office of the Registrar. Information is available regarding budget planning and management, academic and leadership-based scholarships, government financial assistance programs such as OSAP, and grants that help students meet unanticipated financial hardships.

Room 2122, William G. Davis Bldg.
Tel: 905-828-5399
www.utm.utoronto.ca/awards

6.5 Campus Police

The University of Toronto Police Service is a department devoted to providing a safe and secure atmosphere for students, staff, and visitors to the university. This is accomplished by providing education and assistance in personal safety and crime prevention.

The University Police have established an open-door policy to encourage students, staff and visitors to interact with officers. University Police officers are active in the university community in various ways. Officers liaise with student groups and provide special programs to help everyone at the U of T Mississauga campus be more secure.

The University of Toronto Police are on duty 24 hours per day, 365 days a year and provide patrols of the campus in a marked police vehicle, on bicycles and on foot. It also offers a Walksafer program for students who are on campus in the evening. For further information, contact the University Police at:
Room 3116, William G. Davis Bldg.
Emergency: 905-569-4333
Tel: 905-828-5200
E-mail: police.utm@utoronto.ca
www.utm.utoronto.ca/campus.police

6.6 Career Centre

The Career Centre helps students in all programs and at all levels engage in self-assessment, explore and identify potential career areas, understand how to gain relevant experience, set career and/or further education goals, and market themselves effectively to employers both during school and upon graduation.

Students have the opportunity to participate in one-on-one career counselling where they can explore future career or education options. Employment advising appointments, resume critiques and mock interviews allow students to work on their job search skills and tactics. Small group workshops cover a variety of career exploration, job search

and further education topics. The Career Centre also offers several job posting systems for students where employers list part-time, summer and full time positions. A visit to the website (www.utm.utoronto.ca/careers) offers a wealth of additional resources such as careers-by-major information, sample resumes, a calendar of all Career Centre events, and the option to sign up for a monthly e-newsletter with all the latest Career Centre news.

Career Centre
Room 3094, William G. Davis Bldg.
Tel: 905-828-5451
E-mail: careers.utm@utoronto.ca
www.utm.utoronto.ca/careers

6.7 Department of Physical Education, Athletics and Recreation

U of T Mississauga's Recreation, Athletics and Wellness Centre (the RAWC) is a great place to be active and fit. It offers students, faculty and staff a wide variety of program choices including learning new skills, recreation and competing in intramurals. Students can even choose to play for the Varsity Blues.

Facilities include:

- double gymnasium with 700-seat spectator seating
- 25-metre, eight-lane pool with depth adjustable floor
- fitness facilities with state-of-the-art cardio and strength equipment
- changing rooms
- sports medicine and athlete care facilities.

Outstanding activity options include:

- casual recreational play in a variety of sports
- instructional classes
- group fitness classes for all levels and individual fitness training available daily
- intramural leagues at U of T Mississauga, special events and tournaments
- competing for U of T Mississauga on many teams that play in U of T's intramural program
- varsity sports
- student leadership and employment.

As a registered U of T student, you can use the athletic and recreation facilities on the three campuses. Join us for fitness, fun and fair play.

Tel: 905-828-3714
Fax: 905-569-4354
www.utm.utoronto.ca/physed

6.8 Conference and Event Services

With state-of-the-art boardrooms and classrooms, U of T Mississauga is the perfect location for conventions, meetings and seminars. Conference and Event Services offers a wide range of options to internal and external groups of 15 to 400 who wish to use the campus for meetings and functions of all types. Please note, however, that there is limited facility availability during the teaching day for external groups. Conferences and meetings requiring accommodations in residence are held from mid-May to mid-August and are arranged through Conference and Event Services.

Room 3094H, William G. Davis Bldg.
Tel: 905-569-4421
E-mail: confserv.utm@utoronto.ca
www.utm.utoronto.ca/conference

6.9 Student Affairs and Services

Student Affairs & Services oversees departments and a wide range of programs to enhance the student experience at U of T Mississauga. In addition to existing services provided by the Career Centre, Health & Counselling Centre, the AccessAbility Resource Centre, the International Centre, Student Housing & Residence Life and the Department of Physical Education, Athletics and Recreation, Student Affairs also enhances the student experience through:

- support for student groups, clubs and organizations
- providing leadership development initiatives and volunteer recognition
- co-ordinating New Student Orientation and first-year transition programs
- supporting a network of multi-faith organizations and spiritual leaders in the community
- individual advising and assistance for students experiencing difficulty and/or crisis
- advocating for programs and services to support diverse student populations
- addressing issues and concerns related to student behaviour and the Code of Student Conduct

Room 3094G, William G. Davis Bldg.
Tel: 905-828-3872
Fax: 905-569-4652
E-mail: sas.utm@utoronto.ca
Web: www.utm.utoronto.ca/sas

6.10 Health and Counselling Centre

U of T Mississauga's Health and Counselling Centre offers confidential services to assist students with achieving and maintaining physical and emotional health while studying at U of T Mississauga. Almost all physician services are covered by the student's provincial health plan or the University Health Insurance Plan (UHIP) for international students.

The service is staffed by professional nurses, physicians, psychiatrists, social workers and administrative staff who are committed to providing appropriate, supportive and confidential service to U of T Mississauga's rich diversity of students.

Students are encouraged to consult Health and Counselling Centre staff for medical illnesses or accidents, to discuss concerns about contraception, sexual health, sexually-transmitted infections and to have annual health examinations. Contraceptive medication is available at a modest cost and some prescription and over-the-counter medications are available free of charge.

Personal counselling, psychiatric consultation and treatment are available to assist students with emotional or social concerns. Students may seek assistance with a wide range of issues including depression, apathy, anxiety, parental conflict and feelings of inferiority.

All consultations, medical and psychiatric, are strictly confidential and form no part of the student's university record. Supporting documentation may be provided in some cases, but only with the student's written consent.

Personal Counselling

Free, confidential appointments are available with our personal counsellors through the Health and Counselling Centre. Students are seen for a variety of issues such as interpersonal relationships, difficulties with family, body image, eating disorders and anxiety. Talking with a counsellor can often help students more clearly understand their personal situations and identify potential solutions.

How to reach us:

Room 1123, William G. Davis Bldg.
(around the corner from the Bookstore)
Tel: 905-828-5255
Fax: 905-828-3852
E-mail: health.utm@utoronto.ca
Website: www.utm.utoronto.ca/health

6.11 Libraries

The U of T Mississauga Library, located in the Hazel McCallion Academic Learning Centre, is a leading, world-class library committed to providing students with an open and collaborative environment – one that embeds rich information and technology resources, integrates expert services into a dynamic and imaginative experience, and inspires and facilitates learning. The library offers an extensive collection of print, electronic and networked

resources in a wired and wireless environment. Students and faculty also have access to the wealth of collections of other libraries in the University of Toronto Library system and around the world through resource sharing.

The U of T Mississauga library emphasizes *people space* and provides a vibrant, welcoming, comfortable, safe and environmentally friendly place to study. Library staff engage students, faculty, and staff in providing a proactive, expert and personalized learning environment conducive to academic research, reflection, discovery, and learning. There are 19 group-study rooms that can be reserved through the library's web-based room booking application, in addition to a generous supply of study carrels, lounge seating, study tables, computer workstations, and bench and window counter seating.

All computing workstations provide access to library resources, word processing, spreadsheet applications, and specialized products such as Dreamweaver and SPSS. GIS workstations and computers with voice output and large print readers are also available. The library is the information hub and gathering place for collaborative and individual learning on campus. It supports the academic activities of U of T Mississauga students through extensive instructional programs. Students learn about many of the U of T's information resources through course-specific instructional classes held in the library's smart classroom or through specially arranged face-to-face small group instructional sessions. Library staff also offer technology-related workshops in Microsoft Office products, website creation, statistical tools, and tutorials using GIS and mapping applications. One-on-one research assistance is also available.

Patrons can access in-library services and collections during the day and evening and, for select periods until the end of exams, the library is open 24 hours, Sunday through Thursday. Electronic resources are easily accessed remotely 24/7. Further information is available in-person or by contacting the library at:

Information & Loans: 905-828-5236
Research & Reference: 905-828-5237
IM Chat:

www.utm.utoronto.ca/library/services/meebo.html

E-mail Reference: askutml.utm@utoronto.ca

Resource Sharing: 905-828-3881

Website: library.utm.utoronto.ca

Librarians

E. Goettler, BA, MLS
P. Hannaford, BA, MLIS
S. Hawrychuk, BA, MLIS
S. Hook, B.A., MLS, MA
P. King, BA, MLS
S. Laughton, BSc, MIST
M.A. Mavrinac, BA, BEd, MLS, EdD
R. Mazar, BA, MTS., MLIS
M. Meth, BBA, MIST
A. Nicholson, BA, MA, MLS
S. Senese, BA, MLS
J. Szurmak, BASc, MASc, MIST

M. Thuna, BSc, MSc, MSt
I. Whyte, BA, MLIS

6.12 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 is independent of all administrative structures of the University and is accountable only to Governing Council. In handling a complaint, the Ombudsperson has access to all relevant files and information and to all appropriate University officials. All matters are in strict confidence, unless the individual involved approves otherwise. The Ombudsperson offers advice and assistance and can recommend changes in academic or administrative procedures where this seems justified. For additional information, please visit www.utoronto.ca/ombudsperson. The services of the Office are available by appointment at all three U of T campuses.

Tel: 416-946-3485
E-mail: ombuds.person@utoronto.ca

6.13 Quality Service to Students (QSS)

The QSS Council is composed of students and staff who meet monthly to discuss issues concerning student life at U of T Mississauga. Questions or items for discussion can be directed to:

Office of Student Affairs
Room 3094G, William G. Davis Bldg.
Tel: 905-828-3872
Fax: 905-569-4652
E-mail: sas.utm@utoronto.ca

6.14 The Office of the Registrar

In addition to academic and financial advising, this office:

- maintains student records,
- provides course registration information and assistance,
- schedules all course and final examinations,
- administers appeal procedures (petitions) for exceptions to university rules and policies,
- provides recruitment and admission information,
- assesses transfer credit,
- receives graduation requests,
- produces certification letters, and

- issues letters of permission to attend other universities as visiting students.

The office also publishes the U of T Mississauga Academic Calendar, U of T Mississauga Registration Guides and the online, monthly Hotlink newsletter.

The Office of the Registrar is located in:
Room 2122, William G. Davis Bldg.
Tel: 905-828-5399
www.utm.utoronto.ca/reg

6.15 Student Housing and Residence Life

Student Housing & Residence Life at U of T Mississauga offers the most diverse range of housing options at the University of Toronto. Our traditional-style rooms and town homes will provide you with everything students need to call home.

Each U of T Mississauga residence features:

- Fully-furnished single/private bedrooms with a twin-size bed, desk, desk chair, dresser and private closet space.
- Semi-private washrooms shared with only one or three other students.
- The first U of T residence to be connected to the university's high-speed wireless network; study virtually anywhere on campus, including residence bedrooms.
- Laundry facilities with Laundry Alert. Check online or receive a text message to see if machines are available and when the laundry is done.
- Over 100 student leadership and employment opportunities.
- Housing assignments are arranged by program of study. Live and learn in a community where students may have the same classes as you.
- Six \$1,000 residence community entrance scholarships available – application required for consideration.

Facilities are available for students with disabilities, students who identify as transgender, and students with families.

More residence information is available at
www.utm.utoronto.ca/housing

Further Contact Information:
Student Housing & Residence Life
Oscar Peterson Hall, 3359 Mississauga Road N.
Mississauga, ON, Canada, L5L 1C6
Tel: 905-828-5286 Fax: 905-828-5473
E-mail: resdesk.utm@utoronto.ca

6.16 Women's Centre

The Women's Centre is open to all U of T Mississauga students, staff and faculty as well as members of the surrounding community. Regular meetings are held to promote various issues and to plan special events.

Room 131A or D, North Building

Tel: 905-569-4605

www.utm.utoronto.ca/wc

6.17 Central Student Services

Although based on the St. George campus, these services are offered to U of T students on all three campuses.

Chaplains' Office

Koffler Centre, 214 College St.

416-978-8100

Community Safety Office

St. George Office

21 Sussex Avenue

416-978-1485

www.communitysafety.utoronto.ca

First Nations Student Services and Programs

First Nations House, Borden Building North, 3rd Floor

563 Spadina Avenue

416-978-8227

fnh.info@utoronto.ca

www.fnh.utoronto.ca

Family Care Office

Koffler Centre, 214 College Street, Main Floor

Tel: 416-978-0951

Fax: 416-946-5466

family.care@utoronto.ca

www.library.utoronto.ca/familycare

Centre for International Experience

Cumberland House

33 St. George Street

Tel: 416-978-2564

Fax: 416-978-4090

isc.information@utoronto.ca

uhp.information@utoronto.ca

www.cie.utoronto.ca

Legal Services

Faculty of Law

Fasken Martineau Bldg.

655 Spadina Avenue, Suite 418

416-934-4535

law.dls@utoronto.ca

www.dls.utoronto.ca

Ombudsperson, Office of the University

McMurrich Bldg., Room 102

12 Queen's Park Cres. W.

Tel: 416-946-3485

Fax: 416-978-3439

ombuds.person@utoronto.ca

www.utoronto.ca/ombudsperson

Anti-racism & Cultural Diversity Office

215 Huron St., Room 603B

416-978-1259

www.antiracism.utoronto.ca

Sexual Assault Counsellor/Educator

Counselling and Psychological Services (CAPS)

Koffler Student Services Centre

214 College Street, Main Floor

Tel: 416-978-0174

Fax: 416-978-1627

www.utoronto.ca/sho

Sexual Harassment Education, Counselling and Complaint Office

40 Sussex Ave., Third Floor

416-978-3908

Office of the Status of Women

215 Huron St., Suite 603

416-978-2196

status.women@utoronto.ca

www.library.utoronto.ca/wow

Women's Centre/Food Bank

563 Spadina Avenue, Room 100

416-978-8201

7 General Regulations

7.1 Responsibilities of Students

Your success at U of T Mississauga depends upon your response to the opportunities provided here. Instructors, advisors, counsellors and support services can help, however it is the responsibility of the student to ensure that:

- course selection is correct, timely and complete, with particular attention to deadlines;
- all course, program and degree requirements are met;
- you abide by the university's policy on academic honesty;
- your contact information is correctly recorded in our student web service (ROSI: www.rosi.utoronto.ca); and
- you monitor, read and understand information sent to you via your utoronto e-mail account.

Misunderstanding, misapprehension or advice received from another student will not be accepted as a reason for exemption from any regulation, deadline, program or degree requirement. If you have questions or concerns about course content, tests or assignments within the term, first work directly with the relevant teaching assistant or instructor. If the outcome is unsatisfactory, speak with the department's discipline representative (available by contacting the department's administrative assistant), and if necessary after that, with the academic chair of the division in which the course is offered. If you have questions or concerns around a university rule (such as late course withdrawal, deferral of a final exam, suspensions), contact the Office of the Registrar about the possibility of a petition for exemption from the rule. If you have questions or concerns about fees or refunds, contact the Office of the Registrar.

Personal Information

Personal information provided at the time of admission becomes part of your student record and should be kept up-to-date at all times. This 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 and information. 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 Office of the Registrar:

1. Legal name
2. Permanent address and telephone number
3. Mailing address and telephone number while attending U of T Mississauga (if different than above)
4. Social Insurance Number
5. Citizenship status in Canada
6. Marital status
7. Emergency contact information

Student TCard

The student TCard is a wallet-sized card bearing the student's photograph. It is used for identification purposes within the university, such as evidence of registration, as a library card, for participation in student activities, athletic association privileges, signing up for academic and financial advising, identification at examinations, on Mississauga Transit and to utilize the campus meal plan. The loss of the student TCard must be reported promptly to the TCard Office. The card becomes invalid when a student is not actively registered with the university. There is a fee of \$12 for replacement of lost cards. The university is not responsible for funds accumulated on the TCard if it has been lost.

Photos for student TCards are taken at the TCard Office, located next to the Office of the Registrar, Room 2122, William G. Davis Bldg.

utoronto E-mail Account

The university's official method of corresponding with students regarding registration, enrolment status, student accounts and other important areas of business, is through their University of Toronto e-mail accounts.

It is the student's responsibility to check his/her utoronto e-mail account on a regular basis.

Any NON-utoronto e-mail addresses will be purged from ROSI accounts and replaced with a student-specific utoronto e-mail address.

UTORid

A UTORid is a student-specific account name that allows access to a variety of services, such as: the UofT Portal, utoronto e-mail, Blackboard, my.utoronto.ca, online services of the Office of the Registrar, UTORechedule, UTOReb and UTORewn (on-campus wireless network).

Students are Responsible for Monitoring their Records

Students who are still registered in a course after the final date to cancel (or drop) will receive a grade for that course, even if they have never attended, have stopped attending or did not write the final examination. They are responsible for applicable fees regardless of any subsequent changes.

7.2 Registration Regulations

Registration

Registration is a two-step process:

1. enrolling in the courses for which you are eligible; and
2. paying or deferring your fees by the published deadline.

Students should enrol in courses using the online service ROSI (Repository of Student Information), www.rosi.utoronto.ca.

Any student initially enrolling in courses after classes begin will be charged a late enrolment fee. The fee is \$44 on the first day of classes and increases by \$5 each additional weekday. It is payable at the Office of the Registrar.

Students should be aware that permission to register after the end of the registration period may be refused.

Paying Tuition

Tuition fees are paid through the bank. We encourage students to pay their fees online, by telephone banking or in-person at a local bank branch. Fees **cannot** be paid at the Office of the Registrar.

Fees invoices will be available on a student's ROSI account. Students will need to take a print out of it with them to the bank if they pay their fees in person. Students should check their ROSI account for updated balances resulting from any changes they make to their courses.

It is the student's responsibility to pay fees by the deadline. Fee deadlines can be found in the Registration Guide or on the Office of the Registrar's website at www.utm.utoronto.ca/guides.

Fees for Deregulated Programs

Bioinformatics, Commerce, CCIT, Computer Science and Management are programs with deregulated fees.

These program fees are higher than other program tuition fees and have different fee structures. Students in these programs are charged a program fee if enrolled in 3.0 or more credits (full time) and a per-credit fee if enrolled in less than 3.0 credits (part time). The program fee does not include incidental fees. Visit the Student Account website for detailed fee schedules at www.fees.utoronto.ca.

Students who accept a deregulated program Subject POST (Program of Study) will be back-charged deregulated fees for all courses commencing with the session after 4.0 credits were completed.

If you are a student with a documented, permanent disability and are registered with the AccessAbility Office, there may be fee implications if you are enrolled in a deregulated program. Please advise the AccessAbility Office of your registration status and they will follow up on your behalf with the Office of the Registrar.

Invoices

The amount appearing on a student's ROSI account is calculated based on the number of courses a student is enrolled in at that moment and their active Program of Study. Detailed information about registration procedures is outlined in the U of T Mississauga *Registration Guide* at www.utm.utoronto.ca/guides.

Important Registration Dates, such as the first day to enrol in courses or the last day to drop courses, can be found in the Registration Guide and online at www.utm.utoronto.ca/guides. Dates for refunds of fees **do not correspond** to dates for academic withdrawal from courses. For fee refund dates please refer to the Fees Office website at www.fees.utoronto.ca.

Letters Confirming Registration

Students who require written proof of registration may request it online (www.utm.utoronto.ca/forms). A fee is charged. Although U of T Mississauga is not on a formal year-by-year system, for the purpose of letters of confirmation of registration, the following equivalency chart is used:

No. of Passed Credits	Equivalent Year
0 - 3.5	Year I
4.0 - 8.5	Year II
9.0 - 13.5	Year III
14.0+	Year IV

Reactivation of Student Record

Students will need to reactivate their student record online (www.utm.utoronto.ca/forms) if they were previously registered with academic standing (i.e. grades or late withdrawals) at U of T Mississauga and wish to return after an absence of at least 12 consecutive months or, if they are upgrading to an honours degree, after an absence of at least 12 consecutive months. All outstanding fees must be paid before a student record is reactivated.

Students who studied elsewhere during their absence from this university and now wish to have credits transferred should follow the procedure outlined in the section "Courses at Other Universities."

NOTE: If a student reactivates his or her record, but does not enrol in a course and pay tuition, the reactivation becomes invalid at the end of the session.

Dropping Courses

Students who wish to drop a course, or courses (by academic deadline), must do so by using ROSI, or by completing an "add/drop" form at the Office of the Registrar before the final date to cancel courses, as specified in the Sessional Dates (Page 6) or the Registration Guide. Courses with active academic offences may not be dropped. (For information regarding dropping of courses after the deadline dates see below and "Petitions, Appeals, Deferrals (Page 32)").

Deadlines for Dropping Courses

Academic and financial deadlines are very different. Pay close attention to the dates as financial deadlines are much earlier than academic deadlines.

- An academic deadline is the last day to drop a course from your academic record and GPA. See Sessional Dates (Page 6) in this calendar or "Important Dates" in the Registration Guide.

- Students who wish to drop a course after the posted academic deadline must do so online by the last day of classes. (See Late Withdrawal after the Drop Date)
- A financial deadline is the last day to drop a course(s) and receive a refund. See "Important Dates" at www.utm.utoronto.ca/importantdates or www.fees.utoronto.ca.

Late Withdrawal after the Drop Date (LWD)

Once the academic deadline for dropping a course has passed, the only method of dropping a course without petition is by using the LWD option. Students may request to withdraw from a course via the LWD option from a total of no more than 3.0 credits, provided such a request is made by the last day of classes in the relevant course and if they have not written the final exam (or final test/assignment, in those courses without final exams). Such requests are made online at registrar.utm.utoronto.ca/student/LWD. Withdrawals approved under this procedure will be noted on a student's academic record by the course status LWD (Late Withdrawal after the Drop Date), but will not have an effect on a student's GPA or other elements of the academic record. A student may not request to have the course reinstated once an LWD has been applied for and granted.

Students who are granted an LWD are still responsible for paying full fees. Non-attendance IS NOT the same as dropping a course. If a student does not attend class, he/she is still responsible for all fees associated with that course and will be assigned a grade.

Ineligible Enrolment in Courses

Students who enrol in a course for which they are ineligible (e.g. balloted courses; courses with prerequisites, corequisites and/or exclusions) will be removed from the course. It is the students' responsibility to check course prerequisites, corequisites and exclusions prior to enrolling.

ROSI (or Repository of Student Information) – Online enrolment services

Students have access to a variety of enrolment services through the U of T's Repository of Student Information (ROSI). Within established deadlines, students can use ROSI to add, cancel (drop) and wait-listed courses, change sections, list current courses, obtain final grades, and confirm intention to graduate. Students using ROSI can view their entire academic record, request or declare programs (minors, majors, specialists), order transcripts, print tax forms, print invoices and view their financial account balances and detailed charge and payment information. Refer to the U of T Mississauga Registration Guide and www.rosi.utoronto.ca for further information.

Deferral of Admission

A newly admitted student can request a deferral of their offer of admission up until the last day to drop/add courses in September (approximately the third week in the month).

If a newly-admitted student does not defer their admission by this date and drops all classes between the last date to add courses in September and the date to drop courses without academic penalty in November, they will have no status within the University and must re-apply for admission.

Withdrawal from a Session

Students who find it necessary to stop attending all of their courses for the Fall-Winter or Summer session must drop all of their courses, including those they are wait-listed on, and cancel their registration on ROSI by the last date to cancel courses without academic penalty.

Not attending classes is **not the same** as withdrawing from your session. You will still be given a mark based on work submitted and if you have missed assignments you will be marked accordingly. **Merely ceasing to attend classes will result in a failing grade for each course.**

If students withdraw from a session within a refund period, they must cancel their registration for the session on ROSI before a refund of fees will be issued. Students should also return any books to the library, pay outstanding fees, vacate any laboratory or athletic lockers and return any equipment in their possession.

Courses at other U of T divisions

U of T Mississauga students who enrol in courses at other U of T divisions (Scarborough or St. George) are responsible for following the rules, regulations and due dates of those campuses with regards to these courses, except academic and financial drop date deadlines. U of T Mississauga students must follow the U of T Mississauga academic and financial drop dates found in the Registration Guide and at www.fees.utoronto.ca. Please review all registration materials that pertain to any other campus registrations. U of T Mississauga academic and refund deadlines still apply to courses taken at other campuses, with the exception of the Late Withdrawal after the Drop Date (LWD) option.

7.3 Course Regulations

Definition of a Course

All courses are considered to be for degree credit, unless designated as "extra" courses. (This does not apply to "non-degree" students.)

The word "course" is used in two senses. In reference to a single course (such as "standing in a course," etc.) "course" refers equally to a full course or a half course. In reference to a given number of courses, "courses" refers to *full*

courses, or the equivalent number in *full* and *half* courses. To "pass a course," or "obtain standing in a course," normally means to obtain a mark of 50%, or more, in that course.

Each course is assigned a credit value. Full-year courses are normally worth a full (1.0) credit and half-year courses are normally worth a half (or 0.5) credit. However, a few courses held over a full year are valued at a half (0.5) credit and a few courses held over one-half a year are valued at a full (1.0) credit. Students should ensure they accurately identify each course's credit value.

Choosing Courses

1. Students plan their own program, selecting from among all courses offered, subject to the following rules:
 - (a) The degree and program requirements, distribution requirements and other regulations set out in the calendar, U of T Mississauga Registration Guide [www.utm.utoronto.ca/guides] and departmental handbooks must be satisfied.
 - (b) All prerequisite, corequisite and exclusion requirements must be met.
 - (c) No more than 6.0 100-level courses may be taken for degree credit. Additional 100-level courses completed will be designated as "extra" and will not count for degree credit or be included in the Grade Point Average (GPA).
2. Students may not repeat any course that they have already passed. There are only two exceptions: The first occurs when students require a 100-level course with a specific grade for entry into a limited enrolment program. Students may repeat such a course once as an "extra" course, which will have no effect on the student's status or Grade Point Average. There are no supplemental examinations or provisions to "upgrade" a mark.

The second exception occurs when a student needs to repeat a course (in which he or she has received a passing grade) for reasons other than to gain a required mark in a course required for a prerequisite or to qualify for entry into a Subject POST (such as demonstrating a level of performance for an external credential or due to circumstances which have negatively impacted performance in a core course essential for future graduate study). Such a repeated course will appear on the student's academic record, but will be marked "extra" and will not be included in GPA calculations or in the degree credit count. Students requesting to repeat a course under these circumstances must do so at the Office of the Registrar where they will receive appropriate advising and will be enrolled, provided there is a space available, only after other degree students have had an opportunity to enroll.

3. **Courses are credited towards a degree chronologically.** For example, if a student has already passed six 100-level courses and then enrolls in further 100-level courses, the more recent courses are counted as "extra" courses. An exception occurs when a student who has completed 5.5 100-level courses enrolls in a full course at the 100-level in a subsequent session; the most recently taken half-course becomes "extra."
4. **Conflicting Courses:** In order to succeed, students must fulfill the attendance requirements of each class as set by the professor on the course syllabus. Students should not enrol in two or more lectures, tutorials or practicals that are held at the same time. No special accommodation will be made for conflicting tests or exams.

Exclusions, Prerequisites, Corequisites, Recommended Preparation, Extra Courses, Supplemental Courses

Exclusion: Where a student needs to take a given course for program requirements, but has already taken a course listed as an exclusion, they should consult with the department sponsor of their program. If the departmental sponsor confirms that the given course is required for program and the exclusion(s) the student has taken are not allowable to fulfill program requirements, then the course may be taken as an EXTra. Courses are credited towards a degree chronologically. The most recently taken course is assigned as EXTra with one exception. An exception occurs when the required course is a full course and the previously taken exclusion is a half course; in this case, the previously taken half course exclusion becomes EXTra and the current full course retains its degree credit standing.

NOTE: Although it might not be noted in this calendar, some courses offered at other U of T campuses may be exclusions to U of T Mississauga courses and vice versa. If courses have similar titles or content, it is the student's responsibility to contact the offering department at U of T Mississauga to determine if the course can be taken for credit.

Prerequisite: A course (or other qualification) required as preparation for a course. If students consider that they have equivalent preparation, they may ask the department concerned to waive the stated prerequisite. Students who enrol in a course for which they lack the prerequisite may be removed from the course at any time at the request of the department.

Corequisite: A requirement to be undertaken concurrently with another course. The corequisite will be waived if a student has previously obtained standing in it, or if the department consents. A student who withdraws from a course must also withdraw from any course for which the cancelled course is a corequisite, unless the department giving the latter course agrees to waive the corequisite.

Recommended Preparation: Background material, or courses that may enhance a student's understanding of a course.

Extra Courses appear on official transcripts with the notation "EXT." Extra courses do not count towards the total number of credits required for a degree and are not included in the GPA, but may be used to satisfy distribution, program or prerequisite/corequisite requirements.

Supplemental Courses are courses taken after the maximum number of courses allowed (for degree credit) with the same three-letter designator have been passed. These "supplemental" courses will not count for degree credit but will count in the GPA, program and distribution requirements.

Course Loads and Overloads

Students are encouraged to enrol in the number of courses with which they feel comfortable and which they can reasonably expect to complete successfully. Students who are enrolled in a total of 3.0 or more credits in the Fall-Winter sessions (September to April) are considered to be full time, and should attempt to balance their course load evenly between the Fall and Winter sessions. Students are considered to be part time if they are enrolled in 2.5 or fewer credits in the Fall-Winter session.

The normal course load for the 20.0-credit, four-year honours degree is 5.0 credits per year. Others take 4.0 credits during the Fall-Winter session and take 1.0 credit in the Summer.

It is strongly recommended that, in order to ensure academic success, a student who is on academic probation **should not take more than 4.0 credits** in Fall-Winter sessions and **should not enrol in summer courses**. This may have future fees implications.

The maximum credit load in the Fall-Winter session combined is 6.0 credits (a maximum of six courses per term) and in the Summer session it is 2.0 credits (a maximum of two courses per term). Enrolment in credits over the maximum must be approved prior to registration. Students who wish to exceed these limits must complete a course overload request form online at www.utm.utoronto.ca/forms, before registering in the course. Students will not receive special consideration of any kind because of a course overload.

To calculate course loads, students need to consult the course timetable, www.utm.utoronto.ca/timetable, to determine when the course is offered and the duration of the course.

7.4 Enrolling in Courses in other U of T Divisions

U of T Mississauga students are eligible to take courses at other U of T campuses only after they have successfully completed **4.0 U of T Mississauga credits**. Students will be withdrawn from courses at any time if their registration violates this rule.

If taking courses on other U of T campuses toward fulfilling U of T Mississauga program requirements, please check with the U of T Mississauga department to ensure the courses are acceptable toward program requirements.

Enrolment for U of T Mississauga students in UTSC or FAS courses opens during the second enrolment period providing there is still space available in the course, and providing the course is not restricted. Check their division calendar and timetable for eligibility in individual courses. U of T Mississauga academic and refund deadlines still apply to courses taken at other campuses, with the exception of the Late Withdrawal after the Drop Date (LWD) option.

7.5 Courses at Other Universities

Letters of Permission

A letter of permission is prior confirmation from U of T Mississauga that an intended course at another university is acceptable for transfer credit.

Students may take a maximum of 5.0 credits elsewhere for transfer credit on a letter of permission, but only 1.0 transfer credit may be used to satisfy the degree requirement of 300/400 level courses – see Degree Requirements (Page 34).

To be eligible for a letter of permission, students must:

1. **not be registered in courses at U of T in the session for which they are requesting a letter of permission;**
2. have a cumulative GPA of 1.50 or more;
3. have completed a minimum of 4.0 credits at U of T Mississauga; and
4. earn a minimum grade of C- (60%) for the credit to be transferred.

Letters of permission are only granted for study at universities in Canada.

Students who study in other countries must apply for Transfer Credit Assessment after they have completed the course(s). Before students leave to study at the other institution, they should contact their academic department to determine if the course(s) are appropriate in content. Once they have returned from studying abroad, students should request Transfer Credit Assessment at www.utm.utoronto.ca/transfer. **There is no guarantee that they will receive transfer credit for these courses.**

Students must meet the letter of permission application deadlines stated in the U of T Mississauga Registration Guide. The deadlines are generally four to eight weeks before the start of the semester in which they wish to study elsewhere.

After students have completed the courses for which they have been approved for a letter of permission, they must have a transcript of results sent to U of T Mississauga's Transfer Credit Unit, Office of the Registrar, from the other institution at which they studied. Students who do not send

a transcript of results will not receive credit for the course(s) taken on that letter of permission and **will not be granted** another letter of permission.

If a student fails a course taken elsewhere on a letter of permission, they may not be granted another letter of permission.

Students admitted with transfer credit should consult U of T Mississauga's Transfer Credit Unit, Office of the Registrar, about the number of courses they may take on a letter of permission. Refer to the regulations on the letter of permission request form for further details. The letter of permission form is available at www.utm.utoronto.ca/lop.

NOTE: The grade associated with a transfer credit will not appear on a student's transcript and is not included in the calculation of GPAs.

Studying Elsewhere Without Prior Letters of Permission

If students do not obtain a letter of permission before they study elsewhere, they must apply afterwards for Transfer Credit Assessment for the course(s) completed elsewhere. **There is no guarantee that they will be awarded any transfer credit for these courses.** (See also Letters of Permission (Page 22)).

If a student is suspended from the University, they will not be eligible to earn transfer credits from another institution during the suspension period.

In order to obtain Transfer Credit Assessment, students must apply and pay a processing fee using the form available at www.utm.utoronto.ca/transfer.

International Summer Abroad Program

Administered through the University of Toronto's Woodsworth College (Faculty of Arts & Science), the Summer Abroad programs are designed to give students an exciting academic experience that fosters an awareness and appreciation for the people and cultures of several countries around the world.

Students take specially designed University of Toronto undergraduate degree courses, equivalent to one full-year credit (1.0 FCEs), for three to six weeks. Courses are relevant to the host site, and have field trips that complement and highlight the academic materials. In other words, students are able to observe and experience what they study in the classroom. Most instructors are University of Toronto professors and, with the exception of language courses, all teaching is done in English.

Typically, Summer Abroad courses are at the second- and third-year level, and are offered in disciplines such as history, political science, literature, art, management, architecture, criminology, archeology, languages and Aboriginal studies. Most courses have no prerequisites, and all University of Toronto students in good standing are

eligible to apply. The courses and grades show on students' transcripts as regular University of Toronto credits and are calculated into their cumulative GPA.

For further information contact:
The Professional & International Programs Office
Woodsworth College, University of Toronto
119 St. George Street, 3rd Floor
Toronto, ON
M5S 1A9
Tel: 416-978-8713
Fax: 416-946-3516
summer.abroad@utoronto.ca
www.summerabroad.utoronto.ca

International and Canadian Student Exchanges

Students from all faculties and departments are encouraged to participate in the international and Canadian exchange programs offered through the Centre for International Experience. These exchanges allow students to experience new cultures and languages in an academic setting while earning credits towards their U of T degree. Exchanges may be for one term or a full year, and most are open to undergraduate and graduate students.

International exchanges are available around the world. Please check cie.utoronto.ca for an up-to-date listing of our international exchange partners.

Canadian exchanges include: McGill University, Université Laval, Acadia University and the University of British Columbia.

The **Canadian Universities Study Abroad Program** allows students to study at the International Study Centre (ISC) located in the Herstmonceux Castle in East Sussex, England, while remaining registered at U of T. This program is only open to upper-year students.

Awards are available for most exchanges.

Deadlines, applications and more information at:
Centre for International Experience
Room 202, Koffler Student Centre
214 College Street
Toronto, ON M5T 2Z9
Tel: 416-946-3138
Fax: 416-978-6110
cie.utoronto.ca

7.6 Professional Experience Year

The Professional Experience Year (PEY) provides students with an opportunity to gain work experience in fields related to their programs of study. Full-time students with a cumulative GPA of at least 2.0, with a minimum of 10.0 credits, and a maximum of 15.0 credits, may apply to spend 12 to 16 months working in a related industry. This internship period normally occurs after second or third year for students enrolled in an Honours BA or Honours BSc.

Students must seek approval from their department chair before applying to PEY. Students pay a non-refundable application 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. Applications will be available in September at the U of T Mississauga Career Centre, William G. Davis Bldg, Room 3094. For specific departmental requirements, contact the department.

Students do not get degree credit for PEY200Y5 (the Professional Experience Year).

7.7 Language Citation Program

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

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

The Language Citation will consist of a notation on the transcript that reads: "Completed Requirements of Language Citation in [name of language]." This will appear in the U of T Mississauga sessional segment of the student's academic record on the transcript describing the courses and marks for the session in which the Citation is assessed as complete.

Note that Language Citation is not a "program of study" or Subject Post, and will not satisfy the degree requirement that specifies the minimum programs of study to qualify for the degree. The citation may be of interest to those who are completing programs involving language study, but it may also be of interest to those whose program interests lie

elsewhere, but wish to have achievement in a language noted on their academic record.

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

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

The citation can be earned in any language, modern or ancient, which provides sufficient advanced training at the University of Toronto Mississauga, provided the unit offering the instruction participates in the citation. Courses taken at the University of Toronto (St. George campus) or University of Toronto Scarborough may also be eligible for assessment.

Languages offered at the University of Toronto Mississauga for which a citation may be granted (subject to change) include:

- Arabic
- Chinese
- French
- German
- Italian
- Latin
- Persian
- Sanskrit
- Spanish

Contact the Department of Language Studies to determine how you can earn a Language Citation on your U of T degree.

7.8 Transcripts

The transcript of a student's record reports grades of all courses completed by the end of the previous session and courses currently in progress (IPR), along with course average, information regarding academic status (including record of suspension and refusal of further registration) and completion of degree and Subject POST (program of study). Final course results are added to each student's record at the end of each session.

Individual courses that a student cancels within the normal time limit are not shown. However, when students have been permitted Late Withdrawal after the Drop Date (LWD) or by petition to withdraw from a course after the deadline date (WDR), these courses will appear on the transcript with the respective notation (LWD or WDR).

Copies of the transcript will be issued at the student's request, subject to reasonable notice. Requests should be submitted, either online at www.rosi.utoronto.ca, in person or in writing, to: University of Toronto Transcript Centre, Sidney Smith Hall, Room 1006, 100 St. George St., Toronto, ON, M5S 3G3.

A fee of \$10 for each transcript ordered will be charged to your student account (if there is an outstanding tuition balance on your account, service charges will apply). Payment can be made online using Visa or MasterCard.

Alternatively, a "Request for Transcript" form can be downloaded at www.artsci.utoronto.ca/current/undergraduate/transcripts, and submitted by fax, mail or in person to:
University of Toronto Transcript Centre
Sidney Smith Hall
Room 1006
100 St. George St.
Toronto, ON M5S 3G3
Fax: 416-978-2487

Transcripts are not issued for students who have outstanding obligations with the university.

If you registered prior to September 1978 you must use the paper form to submit your request. Transcripts issued directly to students are stamped "Issued to Student." 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 will be issued in specially sealed envelopes. The U of T Transcript Centre cannot be responsible for transcripts lost or delayed in the mail.

In accordance with the university's policy on access to student records, no student record will be released without the student's signature or PIN (Personal Identification Number).

7.9 Term Work Regulations

The following regulations summarize U of T Mississauga's implementation of the University's Grading Practices Policy, which is included in Section 13 of this calendar.

Term Work

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 should not normally count for all of the final mark. Self-evaluation by individual students

or groups of students is not permissible unless the specific consent of the Committee on Academic Standards is received.

No later than the first day of classes, a Course Information Page will be accessible to students via the online timetable and online Course Calendar. The information on this page will include the methods by which student performance will be evaluated, and 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.

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 withdraw from the course without academic penalty, no change in weighting may take place unless there is unanimous consent of all students present. Notice must be given at the regularly scheduled class meeting prior to that at which the issue is to be raised.

Instructors shall return by the deadline one or more marked assignments and/or term tests worth a combined total of at least 15% of the total course mark for H courses and 25% for Y courses. The deadline for returning such marked work shall be the last regular class meeting prior to the academic Drop Date, with one exception: for courses that run the entire Fall/Winter Session (Y5Y or H5Y courses), the deadline shall be the last regular class meeting of the first week of classes in January.

All term work must be submitted *on or before the last day of classes* in the course concerned, unless an alternate date is specified by the instructor. Students who for reasons beyond their control wish to seek an extension of this 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 the Office of the Registrar for a further extension of the deadline. (Refer to Petition Procedures).

Assignments are the property of the student and must be returned. Students must make any inquiries about the mark on a graded piece of work within one month of the return date of the work. Unclaimed term work must be kept by the instructor for one year after the end of the course.

Study Break

Study Breaks will be offered immediately following the last day of classes and shall last at least five days (including weekends) during the Fall-Winter Session and two days (including weekends) during the Summer Session.

During study break:

- Optional review sessions may be held; no new content may be introduced

- Students will be allowed to hand in assignments, at the discretion of the instructor
- Make up tests may be held
- Term tests may not be held
- Instructors may offer extended office hours, at their discretion.

Re-marking Pieces of Term Work

A student who believes that his or her written term work has been unfairly marked may ask the person who marked the work for re-evaluation. Students have up to one month from the date of return of an item of term work to inquire about the mark. If the student is not satisfied with this re-evaluation, he or she may appeal to the instructor in charge of the course if the work was not marked by the instructor (e.g., was marked by a TA). Such re-marking may involve the entire piece of work, and may raise or lower the mark.

Any appeal of the mark beyond the instructor in the course may only be made for term work worth at least 20% of the course mark. Such appeals must be made in writing to the department within one month after the work was returned, explaining in detail why the student believes that the mark is inappropriate. The appeal must summarize all previous communications between the student and previous markers of the work. The student must submit the original marked piece of work.

If the department believes that re-marking is justified, the department shall select an independent reader. The student must agree in writing to be bound by the results of the re-reading process or abandon the appeal.

Where possible, the independent reader should be given a clean, anonymous copy of the work. Without knowing the original assigned mark, the reader shall determine a mark for the work. The marking of the work should be considered within the context of the course of instruction for which it was submitted. If the new mark differs substantially from the original mark, the department shall determine a final mark taking into account both available marks.

7.10 Term Tests

No term test, or combination of term tests in an individual course, held in the last two weeks of classes at the end of term, may have a total weight greater than 25% of the final mark.

All term tests must be held before the last day of classes, and no term test may be scheduled during study break or the December examination period (with the exception of term tests for Y courses with more than one lecture section, or with special permission of the chair of the department).

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 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 instructor may consider a request to extend the time limit.
3. A student whose explanation is accepted by the instructor 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 instructor 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 two-thirds 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 instructor 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: Marks in term work and term tests are not petitionable through the Office of the Registrar. These are dealt with by the relevant instructor and department.

7.11 Declaration of Absence at U of T Mississauga for any reason

Students are required to declare their absence from a class for any reason through their ROSI accounts in order to receive academic accommodation for any course work such as missed tests, late assignments, and final examinations. Absences include those due to illness, death in the family, religious accommodation or other circumstances beyond their control.

In addition, students must also follow the absence policies of the department and the instructor, which may require additional documentation.

Students declare absences via their ROSI account under the section "Absence Declaration." Once they have

submitted the required information, they will be redirected to specific U of T Mississauga course policies regarding academic accommodation, which may include submission of an official U of T Medical Certificate or other documentation.

Missed Final Exams

In addition to using the Absence Declaration on ROSI, students are still required to submit proper medical or other documentation to support a formal petition for deferred exams. (For more information on petitions, please see Petitions, Appeals, Deferrals (Page 32) .

Students should consult with the Office of the Registrar if the period of absence will be lengthy and affect more than one course.

2. three consecutive final examinations – eg. 4 p.m., 8 p.m. on a Monday, and 8 a.m. on a Tuesday (Note: This accommodation does not apply to the deferred examination period), or
3. three examinations on one day,

should submit an online "Examination Conflict Reporting" form (www.utm.utoronto.ca/forms) to the Office of the Registrar by no later than the deadline listed on the U of T Mississauga examination schedule.

In the case of a conflict between a final examination and a term test, the final examination takes scheduling priority. Students should contact the department offering the term test to make arrangements to write the test at an alternate time.

7.12 Examinations

U of T Mississauga Final Examinations

A 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-level course, unless an exemption has been granted by the U of T Mississauga vice principal, academic. In 200-, 300- and 400-level courses, the departments will decide whether or not an examination is appropriate, and report to the Vice-President, Academic and Dean.

Final examinations are held at the end of each session. Students who make personal commitments during the examination period do so at their own risk. **No petitions will be accepted for deferred examinations to accommodate personal, employment or vacation plans.** Students are expected to be available for the entire examination period. Information regarding dates and times of examinations will not be given by telephone. The examination timetable is posted in advance of the examination period outside the Office of the Registrar and is available at www.utm.utoronto.ca/exams. Please note that students will not be allowed to petition to rewrite an examination that they have already attempted.

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. Students taking Monday to Friday day or evening courses may be required to write Saturday examinations.

The ratio of term marks to examination mark will be the same for all sections of multi-section courses that have final examinations.

Examination Conflicts

U of T Mississauga students who have:

1. two University of Toronto final examinations in the same time slot, or

Accommodation for Religious Reasons

Students must also complete an "Accommodation for Religious Reasons Final Examination Reporting" form available at www.utm.utoronto.ca/forms. The reporting form must be submitted to the Office of the Registrar by the date listed on the U of T Mississauga examination schedule.

Rules of Conduct for Examinations

1. No person will be allowed in an examination room during an exam except the students concerned and those supervising the exam.
2. Students must appear at the exam room at least fifteen minutes before the posted start time of the exam.
3. Students must bring their student ID cards (TCard) and place them in a visible spot on their respective desks.
4. Bags, books, coats, jackets and cell phones are to be deposited in areas designated by the Chief Presiding Officer (CPO) and are not to be taken to the exam desk or table. Students may place their wallets on the floor under their chairs.
5. The CPO has authority to assign seats to students.
6. Students cannot communicate with one another, in any manner whatsoever, during the examination.
7. Students may not leave the exam room unescorted for any reason, and this includes using the washroom.
8. No materials shall be brought into the room or used at an exam except those authorized by the CPO or the presiding officer.
9. Students who bring any unauthorized material into an examination room, or who assist or obtain assistance from other students or from any unauthorized source, are liable to penalties under the university's Code of Behaviour on Academic Matters, including the loss of academic credit and expulsion.

10. Cellular telephones of any kind, pagers of any kind, cameras of any kind, iPods, mp3 players, smartphones, personal computers, tablets, personal digital assistants (i.e. Palm Pilots), wristwatch computers or any other device are NOT allowed with a student in the area of his/her desk or table.
11. Students who are less than 30 minutes late for a final exam may enter the exam room and begin writing. The CPO is not required to give any extra time. Students who are more than 30 minutes late for a final exam must report immediately to the Office of the Registrar (Rm. 2122, W.G. Davis Building).
12. To ensure minimal disruption at the beginning and end of an exam, students must remain seated at their desks for:
 - at least the first 30 minutes of the examination and
 - the final 10 minutes of the examination.
13. During the last 10 minutes of an exam, students are to remain in their seats until the exam is over and the CPO has collected all exams.
14. At the conclusion of an exam, students must stop writing. The CPO may seize the papers of students who fail to observe this requirement, and a penalty may be imposed.
15. Exam books and other material issued for the exam cannot be removed from the exam room, except by authority of the CPO.
16. U of T Mississauga is not responsible for personal property left in exam rooms.

Outside Centre Examinations

If students have an exceptional reason for being unable to take an examination at the University of Toronto, they can petition for permission to write an examination at an outside centre institution. To do so, the student submits an online petition to the Office of the Registrar at U of T Mississauga with supporting documentation. The student is responsible for finding an acceptable university and contact person to supervise the examination. If the petition is granted, the student will write the examination at the originally scheduled date and time under the supervision of staff at another university. A fee of \$70 per examination plus applicable shipping costs is to be paid to the Office of the Registrar at U of T Mississauga. Students are responsible for any fees charged by the host university. Petitions must be received at least four weeks before the beginning of the examination period. **Such permission is granted only in exceptional circumstances.**

Deferred Examinations

Deferred examinations will normally be scheduled in the week following the regular exam period or, in the case of December exams, during Reading Week in February.

Examination Re-reads

All requests for re-reading of examinations and photocopies of examinations must be completed online at **www.utm.utoronto.ca/forms** within six months of the end of the final examination period. After that date, the examinations are destroyed. A clerical re-check of course marks must be done at the relevant department within six months of the end of the session in which the course was taken. Any new grade that has been approved by the department chair is final: there will be no appeal for re-marks.

Photocopy of Examinations

After the release of final marks, a photocopy of the examination can be obtained from the Office of the Registrar at U of T Mississauga. There is a non-refundable fee for each examination requested. A "Request for Examination" can be done online at **www.utm.utoronto.ca/forms**. Requests for a photocopy of the exam must be made within six months of the date the exam.

Re-reading of Examination

1. If you feel you have merit for additional marks, complete a "Request for Re-read of Final Examination" form available at **www.utm.utoronto.ca/forms**.
2. In completing the request, demonstrate that your answer is substantially correct, using evidence other than your own opinion, such as: lecture notes, textbooks, similar questions in tests, etc.
3. The fee to have an exam re-read is refundable if the overall course grade changes.
4. Once the Office of the Registrar is satisfied that you have made a clear case for the re-reading of your exam, your form will be attached to the original examination and sent to the department. If you have not made a valid case, your request for re-read will not be forwarded to the department for review, and your fee will be refunded.

The following are the possible results of your requests:

- **the overall course grade may increase**
- **there will be no change in the overall course grade**
- **if another error is detected during re-reading, the overall course grade may decrease.**

Requests to re-read an exam must be made within six months of the date of the exam.

7.13 Statement of Results

Final grades are normally available on ROSI within two weeks following the end of each examination period.

GPA's are available on ROSI and are generally calculated only after all final grades have been posted.

Academic Status is also available on ROSI and is assessed following GPA calculations. Academic status is assessed only two times during the year, at the end of the Fall-Winter session and the end of the Summer session. Students

whose academic performance has resulted in probation, suspension or refusal of further registration will be notified by e-mail. If students who are suspended or refused further registration have already enrolled in the next session before their status was known, the Office of the Registrar will cancel the student's registration in that session and refund their tuition fees. See Academic Status for more details on how status is assessed and its implications.

Office of the Registrar staff will not give final marks to students or their designates by telephone.

7.14 Academic Honesty

Honesty and fairness are considered fundamental to the university's mission, and, as a result, all those who violate those principles are dealt with as if they were damaging the integrity of the university itself. When students are suspected of cheating or a similar academic offence, they are typically surprised at how formally and seriously the matter is dealt with – and how severe the consequences can be if it is determined that cheating did occur. The University of Toronto treats cases of cheating and plagiarism very seriously.

Examples of offences for which you will be penalized include (but are not limited to):

- Using any unauthorized aids on an exam or test (e.g., "cheat sheets," cell phones, electronic devices, etc.)
- Representing someone else's work or words as your own – plagiarism
- Falsifying documents or grades
- Purchasing an essay
- Submitting someone else's work as your own
- Submitting the same essay or report in more than one course (without permission)
- Looking at someone else's answers during an exam or test
- Impersonating another person at an exam or test or having someone else impersonate you
- Making up sources or facts for an essay or report.

As a student it is your responsibility to ensure the integrity of your work and to understand what constitutes an academic offence. If you have any concerns that you may be crossing the line, always ask your instructor. Your instructor can explain, for example, the nuances of plagiarism and how to use secondary sources appropriately; he or she will also tell you what kinds of aids – calculators, dictionaries, etc. – are permitted in a test or exam.

Ignorance of the rules does not excuse cheating or plagiarism.

This information is taken from the brochure, *Academic Honesty*, part of a series of University of Toronto publications to help students understand the university's rules and decision-making structures. To view this publication online, please go to www.governingcouncil.utoronto.ca/policies.htm. All of the policies and procedures surrounding academic offences are dealt with in one policy: "The Code of Behaviour on Academic Matters." The full text is located in the back of this calendar.

7.15 Grades

Grading Scheme

Students are assigned a grade in each course as follows:

Percentage	Grade	Value	Grade Definitions	
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 the literature.
73 - 76	B	3.0		
70 - 72	B-	2.7		
67 - 69	C+	2.3	Adequate	Student who is profiting from their university experience; understanding of the subject matter; ability to develop solutions to simple problems in the material.
63 - 66	C	2.0		
60 - 62	C-	1.7		
57 - 59	D+	1.3	Marginal	Some evidence of familiarity with subject matter and some evidence that critical and analytic skills have been developed.
53 - 56	D	1.0		
50 - 52	D-	0.7		
0 - 49	F	0.0	Inadequate	Little evidence of even superficial understanding of subject matter; weakness in critical and analytical skills, with limited or irrelevant use of literature.
*Credit	CR	No Value		

* As used in a Credit/No Credit evaluation

Other notations that do not have grade point values are:

AEG	AEGROTAT STANDING: For graduating students who have missed their final exam, credit may be assigned on the basis of term work and medical evidence. Authorized only by the Committee on Standing by petition. This option occurs only in extreme circumstances and is rarely offered.
CR/NCR	CREDIT/NO-CREDIT: CR denotes a final mark of at least 50%. Marks below that will be assessed as NCR.
EXT	EXTRA COURSE: Not-for-degree credit.
GWR	GRADE WITHHELD PENDING REVIEW: Applied to students charged with an unresolved academic offence.
IPR	COURSE IN PROGRESS
LWD	LATE WITHDRAWAL AFTER THE DROP DATE: without academic penalty in an incomplete course that a student drops by the last day of classes and only if the request is made online. Student remains responsible for applicable tuition fees.
NGA	NO GRADE AVAILABLE
SDF	STANDING DEFERRED: Completion of course delayed by petition. Authorized only by the Committee on Standing.
WDR	LATE WITHDRAWAL: Without academic penalty in an incomplete course after the relevant deadline, due to circumstances beyond the student's control. Authorized only by the Committee on Standing by petition. Student remains responsible for applicable tuition fees.

Credit/No Credit

Students at University of Toronto Mississauga may select up to a total of 2.0 credits to be assessed on a Credit/No Credit basis.

To achieve a status of CR (Credit), a student must achieve a final mark of at least 50%. Marks below that will be assessed as NCR (No Credit). Courses with a final status of CR will count as degree credits but will have no effect on the student's GPA. These courses may be used to meet Distribution Requirements, but cannot be used to satisfy Subject POST requirements.

Courses with a final status of NCR will not count as degree credits and will not be included in the GPA calculation.

Students may exercise this option for a total of 2.0 full-course equivalents within the total number of credits required for a degree. The choice is not restricted as to year or level of course, but it must be a U of T Mississauga course. This option is not available to non-degree students or to students from other faculties/divisions of the University of Toronto.

The Credit/No Credit option must be chosen or cancelled no later than the last day to cancel that course without academic penalty.

Grade Point Average

An **online GPA calculator** is available at registrar.utm.utoronto.ca/student/cgpa. You will require your UTORid to login in order to access your specific records.

Grade point average (GPA) is the weighted sum (full courses are weighted as 2 and half courses are weighted as 1) of the grade points earned, divided by the number of courses in which grade points were earned.

Any courses taken as non-degree and non-degree visiting student will be included. Courses noted as "AEG" or "CR" or "NCR" or "EXT" or "GWR" or "IPR" or "PASS" or "LWD" or "NGA" or "SDF" or "WDR" are not included in the average nor are transfer credits or courses taken on a letter of permission.

There are three types of grade point averages:

- **Sessional GPA** is based on all passed and failed courses completed in a single session. Sessional GPA is calculated at three times during the academic year: Fall (September-December), Winter (January-April), or Summer (May-August).
- **Annual GPA** takes into account all passed and failed courses completed in the Fall-Winter sessions only. This is calculated at the end of the Winter session and appears on ROSI.
- **Cumulative GPA** takes into account all passed and failed courses that you have taken.

GPA's are calculated at the end of each session only after the majority of final grades have been approved. Final grades are available on ROSI at the end of each session as soon as they are approved. Final grades are normally available on ROSI within two weeks of the last day of the exam period.

The minimum cumulative GPA required **to remain in good standing** is 1.50. More information on grade calculation can be found in the Grades (Page 30) section of this calendar.

The minimum grade requirement **to graduate** with an honours degree is a cumulative GPA of 1.85. More information on degree requirements can be found in the Degree Requirements (Page 34) section of this calendar.

Every course in which you remain registered after the LAST DATE TO WITHDRAW WITHOUT ACADEMIC PENALTY will appear on your grade statement and be a permanent part of your transcript.

Academic Status

Good Standing; Probation; Suspension

The following regulations apply to both degree and non-degree students who have attempted at least 4.0 credits at the university.

1. Students who are neither on probation, suspended, nor refused further registration are described as being in **good standing**. Their cumulative GPA is at least 1.50.
2. Students shall be **on academic probation** if they:
 - (a) have a cumulative GPA of less than 1.50 or
 - (b) return from suspension.
3. Students who, at the end of any session (Winter or Summer) during which they are on probation:
 - (a) have a cumulative GPA of 1.50 or more shall be in good standing;
 - (b) have a cumulative GPA of less than 1.50, but a sessional (Summer) or annual (Fall-Winter) GPA of 1.70, or more, shall continue on probation;
 - (c) have a cumulative GPA of less than 1.50, and a sessional (Summer) or annual (Fall-Winter) GPA of less than 1.70, shall be **suspended for one calendar year** unless they have been suspended previously, in which case they shall be **suspended for three calendar years**.
4. Students who return from a three-year suspension and are again liable for suspension shall be **refused further registration** to the University of Toronto.
5. Students in the Concurrent Teacher Education Program are subject to different regulations regarding academic status, as outlined in "Concurrent Teacher Education" in this calendar.

NOTE:

1. There are two sessions (Summer and Fall/Winter) in each calendar year and status is assessed at the end of each session. **Status is not assessed following the Fall term.**
2. Courses attempted are those in which a student was enrolled on the last date for withdrawal without academic penalty unless an LWD (Late Withdrawal After the Drop Date) or a WDR (Late Withdrawal) has been approved for the course.
3. Cumulative GPA and sessional GPA/annual GPA will be calculated for students who have courses with SDF, GWR or NGA. Academic status will be assessed excluding these courses.
4. SDF AND Cumulative GPA less than 1.50: Students who finish the Fall-Winter session or the Summer session with a cumulative GPA of less than 1.50 and who have been granted deferred standing in a course, are advised to enrol in a maximum of 5.0

further courses (Fall/Winter) minus the weight of the course in which they have been granted a further deferral. Students on academic probation (less than 1.50 CGPA) are advised NOT to enrol in summer session courses.

Grades Review Procedure

The Office of the Dean and Vice-Principal Academic administers the grading regulations and reviews course grades submitted by department chairs. The department is responsible for assigning the official course grades, which are communicated to the students through ROSI.

Each chair may appoint 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 course. Both the departmental review committee, through the chair, and the divisional 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 university. Final marks are official, and may be communicated to the student 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.

Departmental Appeals

Issues arising within a course that concern the pedagogical relationship of the instructor and the student, such as essays, term work, term tests, grading practices, or conduct of instructors, fall within the authority of the department. Students are entitled to seek resolution of these issues, either orally or in writing, through the following successive stages: the course instructor; the department chair; the vice-principal and dean. Refer also to Term Work Regulations (Page 25) for further information.

7.16 Petitions, Appeals, Deferrals

What is a Petition?

A petition is a student's formal request for an exception to the normal rules and regulations of the university. A request must be submitted via the online petition form at **registrar.utm.utoronto.ca/student/petitions**.

The reasons that support the petition must be clear and concise and supporting documentation must be submitted to the Office of the Registrar. The onus is on the petitioner to demonstrate the validity of the request(s). All petitions are considered in confidence by or on behalf of the Committee on Standing.

The university is governed by a series of rules and regulations that are intended to ensure that all our students

are treated equitably and fairly. We acknowledge, however, that in some instances there are valid reasons why students should be granted an exception from these rules. In considering petitions, the Committee on Standing is sensitive to the needs of students who are experiencing problems that are beyond their power to foresee or control, but may not always be able to grant the request.

Students who feel they have genuine difficulties complying with a particular regulation(s) should consult an academic advisor in the Office of the Registrar as soon as they are aware that a problem exists.

Deadlines for Petition Submission

Petitions requesting late withdrawal from courses must be filed within six months of the end of the session in which the course was taken. **Late withdrawals will not be granted if the student has completed the course (i.e., written the final examination or completed the final major assignment/test in courses without a final exam).** Please note that when late withdrawal without academic penalty is granted, a permanent notation of "WDR" is placed on the academic record in lieu of a course grade.

Petitions concerning extensions of time to complete term work later than the end of the exam period must be filed by the last day of the examination period. (Instructors have the authority to grant an extension of time to submit term work that will be completed before the end of the examination period). Students are expected to consult the instructor about a proposed deadline before petitioning for an extension of time and are also expected **to continue to work on assignments while awaiting the petition decision.**

Petitions for deferred examinations must be filed online (registrar.utm.utoronto.ca/student/petitions) within 72 hours following the examination. All supporting documents and payment must be made at the same time.

Petitions received after the deadline date will not be considered.

Appeals

1. **Committee on Standing decisions:** Appeals of these decisions must be made in writing within 90 days of the petition decision to the **Academic Appeals Board** at U of T Mississauga (submit to the Office of the Registrar at U of T Mississauga).
2. **Academic Appeals Board decisions:** Appeals of these decisions must be made in writing within 90 days to:
Academic Appeals Board of Governing Council
Simcoe Hall
27 King's College Circle
Toronto, ON M5S 1A1

Petitions to Defer Final Examinations

In case of illness or extreme emergency at the time of an examination, afflicted students should consider not writing. Instead, they should seek medical attention on the day of the exam, register their absence on their ROSI account, and petition online within 72 hours of the missed examination.

Students will be not allowed to petition to re-write an examination that they have already attempted.

Petitions must be supported by original documentation (photocopies and faxes are NOT acceptable). Late petitions will not be accepted.

- It is the responsibility of the student to provide medical or other supporting documentation. It is the practice of some doctors to charge a fee for writing medical notes. **Any cost incurred by the student in obtaining a doctor's note is the responsibility of the student.**
- A petition due to illness must be accompanied by an original U of T Student Medical Certificate (available at www.utm.utoronto.ca/forms) stating that you were examined and diagnosed at the time of illness and on the day of the exam or immediately after (i.e. the next day). A statement from a physician that merely confirms a report of illness and/or disability made by the student is not acceptable.
- If the petition is not based on medical grounds, other supporting documentation must be attached.

Students who make personal commitments during the exam period do so at their own risk.

The committee will not consider requests to defer final examinations based on vacation, employment or personal plans. The examination period is published in advance and students are expected to be available during this period.

Successful petitions will not excuse you from any of the work of the course, but may allow you to write your examination at a later date and/or have an extension of time to complete term work.

Students will be required to pay a non-refundable fee of \$70 for each deferred examination.

Students who miss a deferred examination will receive a mark of zero for the examination in the calculation of the final grade. Only under exceptional circumstances (eg. hospitalization, severe personal emergency), and when supported by strong documentation, will a petition for a second deferred exam be granted.

SDF (standing deferred) Notation

When a student successfully petitions for a deferred examination or extension of time for term work in a given course, an "SDF" notation is assigned in place of the original grade on a student's transcript. Courses with the notation SDF are not included in grade point average calculation. If the student does not write the deferred examination or hand in the term work by the deadline, the "SDF" notation will be replaced by the original grade with a

grade of "0" for the final examination/missing term work in the calculation of the final grade. If a student successfully petitions for a further deferral/extension however, the SDF notation will remain on record until the deferred exam/term work has been graded and the amended grade has been approved.

SDF AND Cumulative GPA less than 1.50

Students who finish the Fall-Winter session or the Summer session with a cumulative GPA of less than 1.50 and who have been granted deferred standing in a course, are advised to enrol in a maximum of 5.0 further courses (Fall/Winter) minus the weight of the course in which they have been granted a further deferral. Students on academic probation (less than 1.50 CGPA) are advised NOT to enroll in summer session courses.

Students who must write a deferred examination in a course that serves as a prerequisite for subsequent courses may enrol in those courses at the discretion of the department, and provided that the term mark in the prerequisite (deferred) course is at least 60%. Failure to pass the prerequisite course or to meet other departmental grade standards may result in cancellation of enrolment in the subsequent courses.

8 Degree Requirements

8.1 Degrees Offered

U of T Mississauga offers the following degrees:

- Honours Bachelor of Arts - HBA
- Honours Bachelor of Science - HBS
- Bachelor of Commerce - BCom
- Bachelor of Business Administration - BBA
- Bachelor of Education - BEd (through the Ontario Institute for Studies in Education - OISE)

The requirements for the Honours Bachelor of Arts, Honours Bachelor of Science, Bachelor of Commerce and Bachelor of Business Administration degrees are listed beginning in Section 8.6 of this calendar. Whether a student receives an "Arts" degree or a "Science" degree depends on the program(s) the student completes. In the Program Section, each program lists the degree received (for instance, "ENGLISH (Arts)," "GEOGRAPHY (Science)," etc.).

The word "credit," as used in the listing of degree requirements, means a full course or two half courses. In order to "obtain standing" in a course, a student must receive at least a passing grade (50%) in that course.

Students who graduated with a BA or BSc and then continue their studies may upgrade to an Honours degree. When upgrading to an Honours degree, the Honours must be in the same field; i.e., a BA may be upgraded to an Honours BA and a BSc may be upgraded to an Honours

BSc. When upgrading, participation in the graduation ceremony is only allowed for the conferral of the *initial* BA or BSc.

Students who graduate with their HBA/HBS/BBA/BCom may have additional program completions added to their transcript as long as they complete at least one additional half course towards each desired program following the granting of their degree. Students who have graduated and would like to have additional program completions added to their transcript should obtain advising from the relevant departments. Please note that completing additional courses in some areas may not be possible as graduated students become "special students" following their graduation and priority in course enrolment is always given to degree students

8.2 Graduation

Students who appear as though they may have completed enough credits to graduate will be automatically assessed for graduation, and will graduate at the next available convocation ceremony unless students indicate their intent not to.

Refer to the Registration Guide for instructions on how to check degree status and for key deadlines.

Students should meet with an academic advisor in the Office of the Registrar to make sure all degree requirements are being met. This is especially recommended during final year. Departments can check program completion.

PLEASE NOTE: Parchments are withheld until all outstanding U of T fees, library fines, health service missed appointments, damaged departmental equipment and payment for all deferred exams have been paid in full. Degree parchments are held by the Office of Convocation for pick up one year following each graduation ceremony.

8.3 Academic Information Sources

- Consult with academic advisors in the **Office of the Registrar** regarding degree requirements (including acceptable program combinations);
- Consult the **relevant department** regarding specific program requirements.

8.4 Second Degree Requirements

See also *Transferring from Another University of Toronto Division or Faculty*, Section 3.15.

Students beginning a second degree at U of T Mississauga are normally exempted from the first year of the degree requirements by being granted 5.0 credits, 4.0 at the 100 level and 1.0 at the 200 level, regardless of the number of previous degrees held. Students who already hold a University of Toronto degree may complete a second degree only of an alternate type (i.e., if a student has a U of

T HBA degree, then he/she may not complete a second U of T HBA degree). Students who are graduates of another university may apply to take a similar degree in a different area of study.

Current students from another division of U of T should contact the Office of Admissions concerning admission to U of T Mississauga.

Students applying to U of T Mississauga with a completed degree from another institution should refer to the Admission Information in Section 3.

Students who have completed their first degree at U of T Mississauga and wish to be admitted to a second degree should seek academic advising in the Office of the Registrar.

NOTE: Students who have a degree with a Major/Specialist in either Commerce, Management or Economics cannot do a BCom or a BBA as a second degree. This is due to the extensive overlap of courses in these degree programs.

8.5 Distribution Requirements

To qualify for a degree, students must complete at least 1.0 credit from each of the following divisions: **Humanities, Social Sciences, Sciences**. Distribution requirements are noted for each course (where applicable) with the following codes:

- HUM = Humanities
- SSc = Social Science
- SCI = Science
- NDA = No Distribution Assigned

If you are unsure about your distribution requirements or need information on another U of T campus, please contact the Office of the Registrar. Please note that not all courses offered fulfill distribution requirements. Courses used to fulfill *program* requirements may also be used to fulfill *distribution* requirements.

For information on Transfer Credit and Distribution Requirements see Admission with Transfer Credit: College or University (Page 7).

8.6 Honours Bachelor of Science – HBSc – Degree Requirements

The degree received depends on the combination of programs a student completes and specific degree requirements. To qualify for an Honours degree, a student must meet the following requirements:

COURSE REQUIREMENTS: Obtain standing in at least 20.0 credits, meeting the following criteria:

- No more than 6.0 credits may be 100 level;
- At least 6.0 credits must be 300/400 level (no more than 1.0 300/400 level transfer credit may be counted); and
- No more than 15.0 credits may have the same three-letter designator.

DISTRIBUTION REQUIREMENTS:

- Complete the distribution requirement, which consists of at least 1.0 credit from each of the following divisions: Humanities, Sciences, Social Sciences.
- See Distribution Requirements (Page 35) for further explanation of what distribution requirements are. Each course in the calendar has a distribution assignment to help you select courses that fulfill these requirements.

GRADE REQUIREMENT

- Achieve a Cumulative GPA of 1.85 or more by the time of graduation. Students who meet all the requirements for the Honours BA/Honours BSc except for the GPA requirement may elect to graduate with a BA/BSc degree provided they are in Good Standing (i.e. CGPA is 1.50 or more).

PROGRAM REQUIREMENTS FOR AN HONOURS BSc DEGREE:

- 1 Specialist (Science), or
- 1 Major (Science) AND 1 Major (Arts or Science) must include 12.0 distinct courses, or
- 1 Major (Science) AND 2 Minors (Arts or Science) must include 12.0 distinct courses, or
- 1 Major (Arts) AND 2 Minors (both Science) must include 12.0 distinct courses.

NOTES

1. U of T Mississauga limits the number of courses that can be counted for more than one program. When completing a combination of programs, a student must complete at least 12.0 distinct courses that apply to the programs.
2. A maximum of three programs may be completed within a degree. The allowable program combinations are:
 - (a) two Majors AND one Minor; or
 - (b) two Specialists AND one Minor; or
 - (c) one Major AND one Specialist AND one Minor; or
 - (d) three Minors (please note three minors are not an option for students admitted in 2000 and later).

3. When completing two Majors with one Science and one Arts, a student may choose to receive either an Honours BSc or an Honours BA degree. The default assignment on ROSI for such students is Honours BSc. Students who choose to graduate with an Honours BA degree will need to notify the Office of the Registrar of their intention when requesting graduation.
4. Information Sources:
 - (a) Consult the academic advisors in the Office of the Registrar regarding degree requirements.
 - (b) Consult the departmental program advisors regarding specific program requirements.
 - (c) Exceptions to degree requirements may only be granted by petition through the Office of the Registrar. Departmental program advisors may only grant exceptions to program requirements that are not needed towards fulfilling degree requirements.

8.7 Honours Bachelor of Arts – HBA – Degree Requirements

The degree received depends upon the combination of programs a student completes and specific degree requirements. To qualify for an Honours degree, a student must meet the following requirements:

COURSE REQUIREMENTS: Obtain standing in at least 20.0 credits, meeting the following criteria:

- No more than 6.0 credits may be 100 level;
- At least 6.0 credits must be 300/400 level (no more than 1.0 300/400 level transfer credit may be counted); and
- No more than 15.0 credits may have the same three-letter designator.

DISTRIBUTION REQUIREMENTS:

- Complete the distribution requirement, which consists of at least 1.0 credit from each of the following divisions: Humanities, Sciences, Social Sciences.
- See Distribution Requirements (Page 35) for further explanation of what distribution requirements are. Each course in the calendar has a distribution assignment to help you select courses that fulfill these requirements.

GRADE REQUIREMENT

- Achieve a Cumulative GPA of 1.85 or more by the time of graduation. Students who meet all the requirements for the Honours BA/Honours BSc except for the GPA requirement may elect to graduate with a BA/BSc degree provided they are in Good Standing (i.e. CGPA is 1.50 or more).

PROGRAM REQUIREMENTS FOR AN HONOURS BA DEGREE:

- 1 Specialist (Arts) or
- 1 Major (Arts) AND 1 Major (Arts or Science*) must include 12.0 distinct courses, or
- 1 Major (Arts), 2 Minors (Arts or Science*) must include 12.0 distinct courses.

NOTES

1. U of T Mississauga limits the number of courses that can be counted for more than one program. When completing a combination of programs, a student must complete at least 12.0 distinct courses that apply to the programs.
2. A maximum of three programs may be completed within a degree. The allowable program combinations are:
 - (a) two Majors AND one Minor; or
 - (b) two Specialists AND one Minor; or
 - (c) one Major AND one Specialist AND one Minor; or
 - (d) three Minors (please note that three Minors are not an option for students admitted 2000 and later).
3. When completing two Majors with one Science and one Arts, a student may choose to receive either an Honours BSc or an Honours BA degree. The default assignment on ROSI for such students is an Honours BSc. Students who choose to graduate with an Honours BA degree will need to notify the Office of the Registrar of their intention when requesting graduation.
4. Information Sources:
 - (a) Consult the academic advisors in the Office of the Registrar regarding degree requirements.
 - (b) Consult the departmental program advisors regarding specific program requirements.
 - (c) Exceptions to degree requirements may only be granted by petition through the Office of the Registrar. Departmental program advisors may only grant exceptions to program requirements that are not needed towards fulfilling degree requirements.

8.8 Bachelor of Commerce – BCom – Degree Requirements

This is a four-year, honours degree program. To qualify for a Bachelor of Commerce (BCom) degree, a student must meet the following requirements:

COURSE REQUIREMENTS: Obtain standing in at least 20.0 credits, meeting the following criteria:

- No more than 6.0 credits may be 100 level.
- Complete 5.0 credits from disciplines other than Management (MGD/MGT/MGM/RSM) and Economics (ECO). Courses taken to fulfill program and distribution requirements may also be counted towards meeting this requirement.
- Obtain standing in at least 6.0 300/400 level credits (no more than 1.0 300/400 level transfer credit may be counted).

PROGRAM REQUIREMENTS:

- Complete the requirements of a specialist program in Commerce (BCom, HBA) (Page 103).

DISTRIBUTION REQUIREMENT:

- Complete the distribution requirement, which consists of at least 1.0 credit from each of the following divisions: Humanities, Sciences, Social Sciences
- See Distribution Requirements (Page 35) for further explanation of what distribution requirements are. Each course in the calendar has a distribution assignment to help you select courses that fulfill these requirements.

GRADE REQUIREMENT:

- Achieve a Cumulative GPA of 1.85 or more by the time of graduation.
Students who meet all the requirements for the BCom except for the GPA requirement may elect to graduate with a BA degree provided they are in Good Standing (i.e. CGPA is 1.50 or more).

NOTES

1. Number of Courses:

- (a) No more than 15.0 credits may be taken for degree credit from the following: COM(G), MGD, MGT, MGM and ECO (see Commerce (BCom, HBA) (Page 103) Program)
- (b) STA (250H5, 255H1)/ (257H5,261H5), 258H5 are counted as ECO courses.

2. Information Sources:

- (a) Consult the academic advisors in the Office of the Registrar regarding degree requirements.

- (b) Consult the departmental program advisors regarding specific program requirements.
- (c) Exceptions to degree requirements may only be granted by petition through the Office of the Registrar. Departmental program advisors may only grant exceptions to program requirements that are not needed towards fulfilling degree requirements.

8.9 Bachelor of Business Administration – BBA – Degree Requirements

To qualify for a Bachelor of Business Administration (BBA) degree a student must meet the following criteria:

COURSE REQUIREMENTS: Obtain standing in at least 20.0 credits, meeting the following criteria:

- No more than 6.0 credits may be 100 level.
- Complete 5.0 credits from disciplines other than Management (MGD/MGT/MGM/RSM) and Economics (ECO). Courses taken to fulfill program and distribution requirements may also be counted towards meeting this requirement.
- Obtain standing in at least 6.0 300/400 level credits (no more than 1.0 300/400 level transfer credit may be counted).

PROGRAM REQUIREMENTS:

- Complete the requirements of a specialist program in Management.

DISTRIBUTION REQUIREMENT:

- Complete the distribution requirement, which consists of at least 1.0 credit from each of the following divisions: Humanities, Sciences, Social Sciences.
- See Distribution Requirements (Page 35) for further explanation of what distribution requirements are. Each course in the calendar has a distribution assignment to help you select courses that fulfill these requirements.

GRADE REQUIREMENT:

- Achieve a Cumulative GPA of 1.85 or more by the time of graduation.
Students who meet all the requirements for the BBA except for the GPA requirement may elect to graduate with a BA degree provided they are in Good Standing (i.e. CGPA is 1.50 or more).

NOTES

1. Information Sources:

- (a) Consult the academic advisors in the Office of the Registrar regarding degree requirements.
- (b) Consult the departmental program advisors regarding specific program requirements.
- (c) Exceptions to degree requirements may only be granted by petition through the Office of the Registrar. Departmental program advisors may only grant exceptions to program requirements that are not needed towards fulfilling degree requirements.

8.10 Bachelor of Education - BEd - Degree Requirements

For degree requirements pertaining to the Bachelor of Education degree available through the Concurrent Teacher Education Program, consult the calendar of the Ontario Institute for Studies in Education (OISE), www.oise.utoronto.ca.

9 Programs

9.1 Program: Definition, Enrolment, Types, Requirements

Definition

A program is a sequence of courses in one or more disciplines that are grouped together to form a cohesive area of study. A **Program of Study** is also referred to as a **Subject POST**.

Program Enrolment

All degree students must enrol in a program (Subject POST). This must be done when they register for their NEXT Summer or Fall Session after they have passed 4.0 credits. If admitted with transfer credit for 4.0 courses or more, they must enrol in a program when they first register. Students admitted as "non-degree students" are not permitted to enrol in a program.

Entry into programs is based on successful completion of 4.0 credits, including prerequisite courses. Some programs also require specific standing in individual courses and/or a minimum grade point average. See Alphabetical Listing of Programs and Courses (Page 40) for detailed information.

Completion of a program is only one part of the degree requirements. Variations made in program details for individual students do not in any way affect completion of the rest of the degree requirements. Students should be aware that completion of program requirements does not ensure that degree requirements have been met. Students are required to complete 6.0 credits at the 300/400 level for an Honours BA/BSc degree or BCom or BBA degree, including courses required for a program. If the program requires fewer courses at this level, other 300/400 level courses may be counted to fulfill this degree requirement. See Degree Requirements (Page 34).

Students can enrol in programs using ROSI, the online student information system. For limited enrolment programs, see the registration guide for dates and deadlines for program enrolment. The guide is available online at www.utm.utoronto.ca/reg or from the Office of the Registrar.

Types of Programs Available:

Specialist Programs: consist of 9.0 to 16.0* credits (out of the total of 20.0 credits required for an Honours BA or an Honours BSc) including at least 4.0 300/400 level credits, 1.0 of which must be at the 400 level. A Specialist program is allowed within any Honours (BA or BSc) degree or BCom or BBA degree.

Major Programs: consist of 6.0 to 8.5* credits, including at least 2.0 300/400 level credits.

Minor Programs: consist of 4.0* credits, including at least 1.0 300/400 level credit.

***Courses may have prerequisites not listed in the program, but which must also be taken.**

NOTES:

1. In the biological and chemical and physical sciences programs there may be occasions when anatomical, biochemical, physiological or pharmacological observations are made by students on themselves or on fellow students. These include some common diagnostic or immunization procedures. Unless a valid reason exists, students are expected to participate in such exercises. If any investigative work does not form part of the program, participation is voluntary.
2. **Programs at St. George Campus:** U of T Mississauga students may not enrol in St. George programs. Students who enrolled in St. George programs prior to Summer 2003 can complete them.
3. **Programs at Scarborough Campus:** U of T Mississauga students may not enrol in U of T Scarborough programs.

Program Requirements

1. You must enrol in at least one and no more than three programs or Subject POST(s) (**of which only two can be Majors and/or Specialists**), in the first Fall or Summer session after passing your fourth credit.
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 program/Subject POST.
3. The program/Subject POST(s) you complete determines whether you receive a science, arts, business or commerce degree. In the calendar each program states whether it is an arts, science, business or commerce program and whether it has a Specialist, Major or Minor option.

To receive an Honours BSc, for example, you would need to achieve:

- One Specialist in a Science area or;
- Two Majors with at least one Science or;
- One Major plus two Minors; two of the three programs must be in Science areas for a BSc (Hon) (combinations must include 12.0 different courses); or
- One Major in a Science area, plus one Major in an Arts area, leads either to a BSc (Hon) or a BA (Hon) - your choice (two majors must include 12.0 distinct courses).
- If two Minors are being used to receive a BSc degree, both Minors must be in Science areas (two Minors must include 8.0 distinct courses).

Students who graduate with their HBA/HBSc/BBA/BCom may have additional program completions added to their transcript as long as they complete at least one additional half course towards each desired program following the granting of their degree. Students who have graduated and would like to have additional program completions added to their transcript should obtain advising from the relevant departments. Please note that completing additional courses in some areas may not be possible as graduated students become 'special students' following their graduation and priority in course enrolment is always given to degree students.

Courses

In this calendar the term "credit" is used to describe a full course or the equivalent in half courses. Courses are designated by their credit value as follows:

Y = Full credit course

H = Half credit course

9.2 Self-Designed Program of Study

Students wishing to pursue a program other than, or in addition to, those listed in this section may apply for a Self-Designed Program of Study through their department chair. Such students should submit a coherent grouping of courses designed to meet their individual needs, and which is substantially different from any program existing in the U of T Mississauga calendar.

Self-Designed Program of Study (Arts)

Specialist Program ERSPE0408

Major Program ERMAJ0408

Self-Designed Program of Study (Science)

Specialist Program ERSPE0755

Major Program ERMAJ0755

9.3 Symbols and Terms Used in Program Descriptions

(P.I.): Permission of instructor required to enrol.

(I): Open to first-year students (shown after 200+ course number).

(G): Course available only on the St. George Campus.

AND: Comma (,); Semi-colon (;); Ampersand (&); Plus Sign (+)

OR: The slash (/)

"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

200 level: Courses numbered in the 200s ONLY

200+ level: Courses numbered in the 200s, 300s, 400s

300+ level: Courses numbered in the 300s or 400s

9.4 Alphabetical Listing of Programs and Courses

Anthropology (HBA, HBSc)

Professors Emeriti

M. Kleindienst, B.A., M.A., Ph.D.
J. Melbye, B.A., M.A., Ph.D., D.A.B.F.A.
B. Sigmon, B.S., M.S., Ph.D.
R. Vanderburgh, B.A., M.A., Ph.D.

Professors

F.P. Cody, B.A., M.A., Ph.D.
G.W. Crawford, B.Sc., M.A., Ph.D.
H.M-L. Miller, B.A., M.Sc., M.A., Ph.D.
A. Muehlebach, B.A., M.A., Ph.D.
E. Parra, B.Sc., M.Sc., Ph.D.
T.L. Rogers, B.A., M.A., Ph.D.
T. Sanders, B.A., M.A., M.Sc., Ph.D.
S. Scharper, B.A., M.A., Ph.D.
J. Sidnell, B.A., M.A., Ph.D.
D.G. Smith, B.A., M.A., Ph.D.
A. Yao, B.A., M.A., Ph.D.

Chair

J. Sidnell

Undergraduate Assistant

Maria da Mota
Room 300 Terrence Donnelly Health Complex
905-828-3726

What is anthropology? Derived from the Greek anthropos (human) and logia (study), anthropology is the study of humankind from its beginnings to the present day.

Nothing human is alien to anthropology. Indeed, of the many disciplines that concern themselves with the human, only anthropology seeks to understand the whole panorama of human existence – in geographic space and evolutionary time – through comparative and holistic study.

Our programs focus on the four traditional subfields of anthropology: biological, archeology, socio-cultural and linguistic. We also have strengths in forensic anthropology (which includes human biology, archeology and ethnohistory). Our faculty studies a broad array of topics that range from the exploration of ancient pyrotechnologies in South Asia to the study of rainmaking, gender and ritual in Tanzania; from the structures of social interaction and the co-ordination of language, gesture and gaze in the Caribbean to imperialism and mortuary rituals in ancient China; from refugees and state-building efforts in post-war, post-Socialist Bosnia to signatures and citizenship in contemporary India; from the relationship between genetics and human evolution to research related to crime scene investigation.

The common goal that links our vastly different projects is to advance knowledge of who we are and how we came to be that way. We are all dedicated to disseminating

anthropological knowledge through teaching, research, writing and other forms of outreach. Our goal as a department is to train our anthropology students in the fundamentals of all the discipline's subfields. We aim to produce students who are curious about the world in its complexity, and who are well versed in the skills, theories and databases of one or more of our discipline's subfields.

Apart from being employed as faculty in universities and colleges, anthropologists find jobs in national and international governmental bodies, in international agencies dedicated to, for example, human rights, as well as in business and industry. For additional information see *Anthropology as a Career* by Wm. C. Sturtevant and *The Study of Anthropology* by Morton Fried, available at the library in the Hazel McCallion Academic Learning Centre.

Each course description includes an indicator of whether a course is a Science (SCI) or a Social Science (SSC) course for distribution purposes. To learn more about distribution rules and regulations, see Distribution Requirements (Page 35).

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT Anthropology (page 41)
HSC Biomedical Communications (page 85)
JAL Linguistics (page 242)

Specialist Program ERSPE0105 Anthropology (Science)

Within an Honours degree, 10.0 credits are required.

Limited Enrolment – Enrolment in this program is limited. To qualify, students must have completed 4.0 credits (including ANT101H5 and ANT102H5), and achieved a cumulative grade point average of at least 2.00. Students applying to enrol after second year must have completed 8.0 credits, and achieved a CGPA of at least 2.00.

First Year: ANT(101H5, 102H5)

Second Year: 1. ANT(200H5, 201H5), 203Y5
2. ANT204H5 and 0.5 from ANT206H5/ 207H5/ 208H5/ 209H5

Higher Years: 6.0 additional credits selected from the list of ANT science courses, of which 4.0 must be at the 300/400 level, including 1.0 at the 400 level.

Note: HSC403H5, 404H5 are counted as an ANT science credit.

Specialist Program ERSPE1775 Anthropology (Arts)

Within an Honours degree, 10.0 credits are required.

Limited Enrolment – Enrolment in this program is limited. To qualify, students must have completed 4.0 credits (including ANT101H5 and ANT102H5), achieved at least 65% in both ANT101H5 and ANT102H5, and achieved a cumulative grade point average of at least 2.00. Students applying to enrol after second year must have completed 8.0 credits, achieved at least 65% in each of ANT(200H5, 201H5)/ 203Y5, (204H5, 207H5) and 206H5, and achieved a CGPA of at least 2.00.

First Year: ANT(101H5, 102H5)

Second Year: 1. ANT(200H5, 201H5)/ 203Y5
2. ANT(204H5,207H5), 206H5, 208H5/ 209H5

Higher Years: 6.0 additional ANT credits. At least 4.0 of these must be at the 300/400 level, including 1.0 at 400 level.

Note: JAL253H5, 353H5, 355H5 are counted as a Social Science credit.

Major Program ERMAJ0105 Anthropology (Science)

7.0 credits are required.

Limited Enrolment – Enrolment in this program is limited. To qualify, students must have completed 4.0 credits (including ANT101H5 and ANT102H5), and achieved a cumulative grade point average of at least 2.00. Students applying to enrol after second year must have completed 8.0 credits, and achieved a CGPA of at least 2.00.

First Year: ANT(101H5, 102H5)

Second Year: 1. ANT(200H5, 201H5),203Y5
2. ANT204H5 and 0.5 from ANT206H5/ 207H5/ 208H5/ 209H5

Higher Years: 3.0 additional credits selected from the list of ANT science courses, of which at least 1.0 must be at the 300 and 0.5 at the 400 level.

Note: HSC403H5, 404H5 is counted as an ANT science credit.

Major Program ERMAJ1775 Anthropology (Arts)

7.0 credits are required.

Limited Enrolment – Enrolment in this program is limited. To qualify, students must have completed 4.0 credits (including ANT101H5 and ANT102H5), achieved at least 65% in both ANT101H5 and ANT102H5, and achieved a cumulative grade point average of at least 2.00. Students applying to enrol after second year must have completed 8.0 credits, achieved at least 65% in each of ANT(200H5, 201H5)/ 203Y5, (204H5, 207H5) and 206H5, and achieved a CGPA of at least 2.00.

First Year: ANT(101H5, 102H5)

Second Year: 1. ANT(200H5, 201H5)/ 203Y5
2. ANT(204H5,207H5), 206H5, 208H5/ 209H5

Higher Years: 3.0 additional ANT credits of which at least 1.0 must be at the 300 level and 0.5 at the 400 level.

Note: JAL253H5, 353H5, 355H5 are counted as a Social Science credit.

Minor Program ERMIN1775 Anthropology (Arts)

4.0 credits are required.

First Year: ANT(101H5, 102H5)

Second Year: 1.0 credit ANT(200H5, 201H5)/ 203Y5/ 204H5/ 207H5/ 206H5

Higher Years: 2.0 additional ANT credits. At least 1.0 must be at the 300/400 level.

Note: JAL253H5, 353H5, 355H5 are counted as a Social Science credit.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses**ANT101H5 Introduction to Biological Anthropology and Archaeology (SCI)**

Anthropology is the global and holistic study of human biology and behaviour, and includes four subfields: biological anthropology, archaeology, sociocultural anthropology and linguistics. The material covered is directed to answering the question: What makes us human? This course is a survey of biological anthropology and archaeology. [24L, 12P]

Exclusion: ANT100Y5

ANT102H5 Introduction to Sociocultural and Linguistic Anthropology (SSoc)

Anthropology is the global and holistic study of human biology and behaviour, and includes four subfields: biological anthropology, archaeology, sociocultural anthropology and linguistics. The material covered is directed to answering the question: What makes us human? This course is a survey of sociocultural and linguistic anthropology. [24L]

Exclusion: ANT100Y5

ANT199H5 First Year Seminar in Anthropology (SSoc)

This course is designed to offer ambitious students a rigorous introduction to the field of sociocultural anthropology - the study of people as social and cultural beings, and how people order their lives and give meaning to their experiences. It is a reading, writing, and discussion-intensive seminar in which students explore core topics in the study of humanity-power, identity, self, culture, and society-by focusing on issues which may include but are not limited to war, human rights, development, immigration, and religion. [24S]

Prerequisite: ANT102H5

NOTE: This course is restricted to first year students only. Students permitted to enrol must achieve a grade of 80% or higher in ANT102H5.

This is a seminar course and will have an enrollment cap of 25. Interested students must apply directly to the department.

ANT200H5 Prehistoric Archaeology (SCI)

Archaeological theory, method and technique. Principles of scientific research will be applied to archaeological information. The course will cover the following topics: how archaeology applies the scientific method; how archaeological projects are planned and organized; how archaeological data are recovered through survey, excavation and other means; how archaeological data are organized and analyzed to produce information about the human past; the major theoretical paradigms that archaeologists use to interpret the human past. [24L, 12P]

Exclusion: ANT200Y5

Prerequisite: ANT101H5

ANT201H5 World Prehistory (SCI)

Survey of human cultural development over 2.5 million years. The course will cover the following topics: the nature and origins of material culture; the nature and development of hunter-gather-fisher economies; the nature and development of resource production; and the nature of development of complex societies. [24L, 12P]

Exclusion: ANT200Y5

Recommended Preparation: ANT101H5

ANT203Y5 Biological Anthropology (SCI)

A survey of the field of biological anthropology. Topics will include human evolution and palaeontology, skeletal biology, human genetics and variation, human growth, primatology and human adaptation. [48L, 24P]

Prerequisite: ANT101H5/ BIO152H5

ANT204H5 Sociocultural Anthropology (SSoc)

A general introductory course emphasizing social and political organization, economics, and the development of theory. Specific cases of social dynamics are drawn from both traditional and contemporary societies. [24L, 12T]

Exclusion: ANT204Y5

Prerequisite: ANT102H5/ 100Y5

ANT205H5 Introduction to Forensic Anthropology (SCI)

Introduction to the field of forensic anthropology. Outlines the areas in which forensic anthropologists may contribute to a death investigation and introduces basic concepts relating to the recovery and analysis of human remains.

[24L, 12P]

Prerequisite: ANT101H5/ BIO152H5

ANT206H5 Culture and Communication (SSoc)

Introduction to linguistic anthropology and sociolinguistics. This includes: the issue of meaning in language, the use of language in context, the role of language in the organization of human activity, language and identity, the sequential organization of talk-in-interaction. [24, 12T]

Exclusion: ANT206Y5

Prerequisite: ANT102H5/ 100Y5

ANT207H5 Being Human: Classic Thought on Self and Society (SSoc)

The question of what it means to be human has been at the core of anthropology for over two centuries, and it remains as pressing now as it ever was. This course introduces students to some classic attempts at addressing this question with specific reference to the nature of personhood and social life. By engaging with the writings of Marx, Weber, Freud, and DeBeauvoir among other great thinkers of the modern age, students will develop deeper knowledge of the major theories guiding anthropological research. We will pay close attention to how arguments are constructed in these texts and focus on the methodologies that these pioneers of social thought developed in their inquiries. The course covers enduring topics ranging from the production of social inequality, what it means to be an individual, how collective life is shaped by economic markets, and the role of religion in shaping human experience, to develop an understanding of central issues facing the world today. [24L, 12T]

Exclusion: ANT204Y5

Prerequisite: ANT102H5

ANT208H5 The Cool Culture Soul Machine: The Anthropology of Everyday Life (SSc)

This course will introduce students to culture and social theory via the lens of popular culture. Commodities, advertising, and new technologies will be considered in light of their cultural content. The course may consider the marketing of identities, gender, sexualities, bodies, ethnicity, religion, and ideology, as well as resistance. [24L]

ANT209H5 War, trade and aid: The anthropology of global intervention (SSc)

This course explores how anthropology approaches the study of various interventions into human life and society. These forms of intervention—nation building, human rights, and development—differ in the scale and scope of their projects and in what they hope to accomplish. They also have much in common. Each is explicitly concerned with improving the conditions under which people live, and yet each has also been criticized for making things worse rather than better. This course will explore why this might be the case by focusing on examples taken from around the world. [24L]

ANT210H5 Fantasies, Hoaxes and Misrepresentations of the Ancient World (SCI)

The anatomy of significant hoaxes, outrageous claims, and archaeology in popular culture are examined. Why are these claims so popular? How do we critically evaluate potential hoaxes and fictional accounts of the past? What role has racism played in these views? This course provides the tools for evaluation of these claims as well as for the lifetime enjoyment of what is truly exciting about archaeology. [24L]

ANT241Y5 Aboriginal Peoples of North America (SSc)

Overview of the prehistory, ethnohistory, and ethnology of aboriginal cultures, exploring kinship, social organization, political structure, trade relations, economics, technology, art and religion. [48L]

ANT299Y5 Research Opportunity Program (SSc,SCI)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

ANT306H5 Forensic Anthropology Field School (SCI)

Introduction to the field of forensic anthropological field techniques and scene interpretation. A 2-week field school will be held on the U of T Mississauga campus (Monday to Friday 9 a.m. to 5 p.m., two weeks in August). Weekly 2-hour classes will be held during the fall term. In these classes, students will examine casts, maps, photos and other evidence collected in the field, for the purposes of scene reconstruction and presentation in court. [104P]
Prerequisite: ANT205H5

ANT308H5 Case Studies in Archaeological Botany and Zoology (SCI)

This course examines human interaction with the environment from the perspective of case studies in zooarchaeology and palaeoethnobotany. Topics include prominent theoretical perspectives, domestication, subsistence organization including hunting and gathering as well as agriculture and its intensification. [24L]
Prerequisite: ANT(200H5, 201H5)/ 200Y5

ANT309H5 Southeast Asian Archaeology (SCI)

Southeast Asia (Thailand, Vietnam, Laos, Myanmar, Cambodia, and South China) hosts some of the greatest ethnic and linguistic diversity in the world. This course charts the early beginnings of human activity in the region to the origins of plant and animal domestication and the subsequent impact of early metallurgy across mainland Southeast Asia. Using both ethnographic and archaeological materials, we explore the range of human adaptations to the maritime, river valley and highland zones in ancient Southeast Asia. The course also considers the dynamic interaction among communities and the introduction of Buddhism and Hinduism in the rise of urbanism at Funan, Dvarvati, Chenla, and Champa. [24L]
Prerequisite: ANT(200H5, 201H5)/ 200Y5

ANT310H5 Complex Societies (SSc)

This comparative analysis of ancient state-level societies is focused on understanding the processes involved in the functioning of states, examining how various political, social, economic, and religious orientations affected state information, cohesion, maintenance and dissolution. [36L]
Prerequisite: ANT(200H5, 201H5)/ 200Y5

ANT312H5 Archaeological Analysis (SCI)

This course will introduce the process of archaeological research, from project design through report write-up. The student will create a project proposal and budget, choose methods of survey and excavation, describe and organize data for analysis, and summarize findings in a project report. [12L, 24P]
Prerequisite: ANT(200H5, 201H5)/ 200Y5
Limited Enrolment

ANT313H5 China, Korea and Japan in Prehistory (SCI)

The exploration of the remarkable prehistories of China, the Koreas and Japan challenge western thought on agricultural origins, complex hunter-gatherers, urbanization and the development of centralized authority. This course evaluates current thinking about these issues in the three regions and examines the impact of local archaeological practice on the construction of narratives about the past. [24L]

Prerequisite: ANT(200H5, 201H5)/ 200Y5

ANT314H5 Archaeological Theory (SCI)

An evaluation of explanatory processes in prehistory and a comparison of archaeological theories with general scientific theories. [24L]

Exclusion: ANT411H5

Prerequisite: ANT(200H5, 201H5)/ 200Y5

ANT316H5 South Asian Archaeology (SSoc)

This course surveys the archaeology of South Asia (modern-day India, Pakistan, Sri Lanka and northern regions) from the Palaeolithic to the Medieval Period (+200,000 ya to ca. 1600 CE/AD) using a comparative framework. South Asia is a place where many external cultural traditions mixed with indigenous traditions to create new socioeconomic and sociopolitical entities and sequences. While we will examine classic examples of hunter-gatherer groups, early villages, urban settlements, regional polities, and large empires through time, we will also stress the contemporaneity of groups of people with very different lifestyles – hunter-gatherers participated in trading networks with town and city dwellers, pastoral nomads moved through settled village regions during their annual migrations. The impact of archaeological research on the region today is seen through the politicization of South Asian prehistory and history that has strongly affected both interpretations of the past and modern political events. Cases such as the debate over the identity of the Harappans and the existence of the Aryans will be evaluated from both an archaeological and a political perspective. [24L, 12P]

Prerequisite: ANT(200H5, 201H5)/ 200Y5

ANT317H5 Archaeology of Eastern North America (SCI)

Chronology and analysis of the prehistoric culture areas and stages of Eastern North America in a scientific context. [24L]

Prerequisite: ANT(200H5, 201H5)/ 200Y5

ANT318H5 Archaeological Fieldwork (SCI)

Practical experience on an archaeological site during the last two weeks of August, followed by weekly laboratory sessions September to December. [104P]

Prerequisite: ANT(200H5, 201H5)/ 200Y5

Limited Enrolment

ANT320H5 Archaeological Approaches to Technology (SCI)

This course focuses on insight into social and cultural processes provided by the study of ancient and historical technology. It emphasizes the importance for archaeological studies of archaeological, textual, experimental and ethnographic data. Organization and control of production, style of technology, and the value of objects will be examined. Throughout, social and cultural as well as economic and functional reasons for the development and adoption of new technologies will be discussed. [24L, 12P]

Prerequisite: ANT(200H5, 201H5)/ 200Y5

Recommended Preparation: ANT204H5/ 207H5/ 204Y5

ANT322H5 Anthropology of Youth: Cool Capitalism and its Rebels (SSoc)

This course will present various perspectives on the nature and dynamics of youth culture. The course will examine one or more of the following: capitalism and youth cultures, ethnomusicology, and discourses of "youth." Topics may include North American subcultures (such as punk and hip-hop) and/or ethnographies of youth from other parts of the world. The course may also use frameworks from cultural studies and semiotics. [24L]

Exclusion: ANT322H1

Prerequisite: ANT204H5/ 207H5/ 204Y5

ANT327H5 Agricultural Origins: The Second Revolution (SCI)

A second revolution in human existence began when people developed agriculture long after the origin of modern humans and Upper Palaeolithic culture. This course critically evaluates the shift to agriculture in the context of current ecological and archaeological perspectives. The concept of "agriculture" is evaluated by considering plant and animal domestication as well as resource management in a broad range of contexts. [24L]

Prerequisite: ANT(200H5, 201H5)/ 200Y5

ANT331H5 The Biology of Human Sexuality (SCI)

An exploration of the biology of human sexual differences. Emphasizes the developmental, anatomical and evolutionary dimensions of human sexuality. [24L]

Exclusion: ANT330H5, 331Y5

Prerequisite: ANT203Y5

ANT332H5 Human Origins (SCI)

Examination and critical assessment of the fossil record leading to *Homo habilis*. Primate systematics and evolutionary theory as it applies to understanding human evolutionary history is considered as is the behaviour of our early ancestors as revealed by the Palaeolithic archaeological record. [24L, 12P]

Exclusion: ANT332Y5

Prerequisite: ANT203Y5

ANT333H5 Human Origins II (SCI)

Examination of the human fossil and archaeological record from *Homo habilis* to beginning of agriculture. The development of modern human behaviour will also be examined through an exploration of the Lower, Middle, and Upper Palaeolithic periods around the world. [24L, 12P]

Exclusion: ANT332Y5

Prerequisite: ANT332H5

ANT334H5 Human Osteology (SCI)

Includes normal anatomy of the human skeleton, metrical and morphological variation, age and sex determination, and techniques of recovering, preserving and recording human remains. [12L, 24P]

Exclusion: ANT334Y5

Prerequisite: ANT203Y5

ANT335H5 Anthropology of Gender (SSc)

Survey of the function of gender roles from evolutionary and cultural perspectives. Cross-cultural variation in human sexual behaviour and gender will be examined. [24L]

Exclusion: ANT331Y5, 343Y1

Prerequisite: ANT204H5/ 207H5/ 204Y5

Recommended Preparation: ANT203Y5

ANT336H5 Molecular Anthropology (SCI)

Survey of molecular anthropology, a subdiscipline of anthropology that attempts to understand human evolution and the variation observed in our species using molecular information. [24L, 12P]

Prerequisite: ANT203Y5

ANT338H5 Laboratory Methods in Biological Anthropology (SCI)

Recommended for those who may specialize in biological anthropology. Students will be introduced to the process of conducting research, including selected laboratory procedures and how they are used to generate and/or analyze data. [12L, 24P]

Prerequisite: ANT203Y5

ANT339Y5 Human Adaptation through Biological and Cultural Means (SCI)

How the body adapts to differing physical environments and how behaviour has expanded the range of human adaptation, in sensing, perceiving and interpreting the environment, through cultural means. [48L]

Prerequisite: ANT203Y5

Recommended Preparation: BIO152H5, 153H5

ANT340H5 Osteological Theory (SCI)

Survey of palaeodemography, palaeopathology, palaeonutrition, and techniques of recovering, preserving and recording human remains. [36L]

Exclusion: ANT334Y5

Prerequisite: ANT334H5

ANT350H5 Globalization and the Changing World of Work (SSc)

The course uses ethnographic material to examine 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. [24L]

Prerequisite: ANT204H5/ 207H5/ 204Y5

ANT351H5 Money, Markets, Gifts: Topics in Economic Anthropology (SSc)

Sociocultural anthropology has, since its inception, questioned the assumption that "the economy" ought to be understood as a domain distinguishable from other fields of human interaction, such as religion and kinship, or from power, politics, affect, and morality. This class offers a set of introductory readings that range from the analysis of non-Western forms of exchange and value to the study of capitalism; from stock-markets to the anti-globalization movement. [24L]

Prerequisite: ANT204H5/ 207H5/ 204Y5

ANT352H5 Protest, Power and Authority: Topics in Political Anthropology (SSc)

This course explores ethnographically the social and cultural practices through which the exercise of power is legitimized, authorized, and contested, examining such topics as nation-building, non-governmental activism, human rights, and the global "war on terror." [24L]

Prerequisite: ANT204H5/ 207H5/ 204Y5/POL113H5/ POL200Y5

ANT357H5 Nature, People and Power: Topics in Environmental Anthropology (SSc)

This course examines anthropological approaches to the environment and environmentalism. Through key readings on indigenous peoples and conservation, traditional ecological knowledge, community-based natural resource management, ecotourism and the human dimensions of climate change, the course explores the complex social, cultural and political encounters that produce 'the environment' as a resource in need of management. [24L]

Exclusion: ANT457H5

Prerequisite: ANT204H5/ 204Y5 or P.I.

ANT358H5 Doing Anthropology: Field Methods in Sociocultural and Linguistic Anthropology (SSoc)

This course investigates how sociocultural and/or linguistic anthropologists collect data, conduct fieldwork, and interpret research results. Students complement reading and lectures on method with gaining first-hand experience in carrying out various techniques of anthropological research including interviewing, collecting life histories, participant observation, and project design. Students formulate and complete a research project loosely organized around an annual theme. This course is designed for those students who want to gain skills in research design and practice as well as for those who are thinking about graduate-level work in anthropology or another social science program. [24L]
Prerequisite: ANT204H5/ 207H5/ 204Y5

ANT360H5 Anthropology of Religion (SSoc)

This course considers anthropological approaches to western and non-western religions and religious phenomena. [24L]
Exclusion: ANT209Y5, JAR360H5
Prerequisite: ANT204H5/ 207H5/ 204Y5

ANT361H5 Anthropology of Sub-Saharan Africa (SSoc)

This course considers anthropological approaches to contemporary issues in Sub-Saharan Africa. [24L]
Exclusion: ANT212Y5
Prerequisite: ANT204H5/ 207H5/ 204Y5

ANT362H5 Language in Culture and Society (SSoc)

Main currents in anthropological thinking about language and social interaction. It aims to introduce students to representative writings and ways for working. Lectures will work through main figures and schools with emphasis on explaining technical concepts and analytic paradigms. [24L]
Prerequisite: ANT204H5/ 207H5/ 204Y5, ANT206H5

ANT363H5 Magic and Science (SSoc)

What's the difference between magic and science? Is there one? This course explores anthropological approaches to magic and science and related topics, raising basic questions about the nature of knowledge: what can we know about the world, and how can we know it? Through close readings of key anthropological texts, we consider what—if anything—differentiates magic and science, belief and truth, subjectivity and objectivity, irrationality and rationality. [24L]

ANT364H5 Fieldwork in Language, Culture, and Society (SSoc)

This course will give students hands-on experience in methods for recording, transcribing, coding, and analyzing ethnographic data in linguistic anthropology. Students will synthesize weekly reading materials focused on these methods with actual, collaborative, in-class practice on a designated topic in the anthropology of everyday social interaction. Through this synthesis students will come to discern the relationship between everyday instances of communication between people and what the patterns of speech in this interaction may say about larger society. Students will be expected to develop their own analyses of the data collected under the guidance of the instructor and to formulate a final project. [12L, 12P]
Prerequisite: ANT204H5/ 206H5/ JAL353H5

ANT365H5 Semiotic Anthropology (SSoc)

This course serves as a reading intensive seminar-style introduction to the concerns of symbolic or semiotic anthropology. Readings in cultural theory and ethnography will be used to engage with questions regarding the construction of meaning in relation to ethnic identity, social structure, gender, political economy, personhood, and religion. Drawing on classic texts on ritual and myth, students will be encouraged to apply the lens of symbolic analysis to interpret contemporary social formations. [24L]
Prerequisite: ANT204H5/ 207H5/ 204Y5

ANT368H5 World Religions and Ecology (SSoc)

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 examination of the environment crisis. [24L]
Exclusion: RLG311H5
Prerequisite: ANT204H5/ 207H5/ 204Y5/RLG101H5

ANT369H5 Religious Violence and Nonviolence (SSoc)

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. [24L]
Exclusion: RLG317H5
Prerequisite: ANT204H5/ 207H5/ 204Y5/RLG101H5

ANT370H5 Environment, Culture and Film (SSc)

Our present environmental challenge constitutes of the most pressing areas of contemporary social, cultural, ethical and ecological concern. Acid rain, poisoned air, forest clear-cutting, ozone depletion, global climate change, toxic waste sites—the list goes on—all weigh heavily on our personal and intellectual lives. This course attempts to introduce students to both the scope and seriousness of present ecological concerns, as well as some core principles and concepts in the field of the intersection of environment and culture, through the lens of feature films. Themes such as the precautionary principle, urban/rural dualisms, ecofeminism, deep ecology, and the overwhelming burden placed on poor populations by environmental destruction are but a few of the areas which will be examined through the use of feature films, both classic and contemporary. We will do this in part by touching on some of the major writers and classic essays in the field. Class lectures will be supplemented by audiovisuals, guest lectures and class discussions. [36L]

ANT397H5 Independent Study (SSc,SCI)

Supervised reading in selected anthropological topics.

Prerequisite: Permission of Faculty Advisor

ANT398Y5 Independent Reading (SSc,SCI)

Supervised reading in selected anthropological topics.

Prerequisite: Permission of Faculty Advisor

ANT399Y5 Research Opportunity Program (SSc,SCI)

This course provides senior undergraduate students who have developed some knowledge of a discipline and its research methods an opportunity to work in the research project of a professor in return for course credit. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early March.

For details see Research Opportunity Program (299Y, 399Y and 499Y) (Page 327)

Prerequisite: P.I.

ANT401H5 Vocal and Visual Communication (SSc)

Major approaches to the study of visual communication are studied. Bodies of visual materials, both documentary and commercial, are analyzed in terms of social and cultural contexts. Student projects may involve the use of still, movie, video filming and archival sources. [12L, 24P]

Prerequisite: ANT102H5, 204Y5/ ANT206H5

ANT407H5 Statistics and Archaeological Analyses to Quantitative Methods in Biological Anthropology and Archaeology (SCI)

The fragmentary nature of data recovered from prehistoric sites sets presents many challenges for investigators. Is there meaningful pattern to be found? How do we transform a description of the data set into an interpretation about the society we are studying? This course provides students with an introduction to general statistical principles used by social scientists and the different methods suitable for archaeological exploration. Students will learn how to apply statistical procedures using Minitab software to case studies. Each class will include a lab component. [24L, 12P]
Exclusion: BIO360H5, BIO361H5, ECO220Y5, ECO227Y5, PSY201H5, PSY202H5, SOC300Y5, (SOC350H5, SOC351H5), STA218H5, STA220H5, STA221H5, STA257H5, STA258H5, STA261H5

Prerequisite: ANT (200H5, 201H5)/ 200Y5, ANT312H5

ANT414H5 People and Plants in Prehistory (SCI)

The examination of plant remains from archaeological sites addresses many issues, some of which include environmental interaction, plant domestication, and early plant use. Students will learn plant remains identification and interpretation skills through a combination of laboratory and seminar sessions. [12L, 24P]

Prerequisite: ANT(200H5, 201H5)/ 200Y5, 312H5/ 318H5 or P.I.

Limited Enrolment

ANT415H5 Faunal Archaeo-Osteology (SCI)

Examination and interpretation of faunal material from archaeological sites, to obtain cultural information regarding the site occupants. [36P]

Exclusion: ANT415Y5

Prerequisite: ANT(200H5, 201H5)/ 200Y5, 306H5/ 308H5/ 312H5/ 318H5.

Recommended Preparation: ANT312H5/ (334H5, 340H5)/ 334Y5

ANT416H5 Advanced Archaeological Analysis (SCI)

This course will involve students in applied laboratory methods in archaeology. Each student will engage in an individual research project on an archaeological data set. Techniques will include basic description, measurement, quantitative analysis and qualitative analysis. The primary focus will be ceramic and lithic analysis. [12L 24P]

Prerequisite: ANT312H5

ANT418H5 Advanced Archaeological Fieldwork (SCI)

Fieldwork and analysis of artifacts. [104P]

Prerequisite: ANT318H5

ANT430H5 Special Problems in Biological Anthropology and Archaeology (SCI)

Supervised independent research in Biological Anthropology or Archaeology for students requiring science credit.

Prerequisite: P.I.

ANT431H5 Special Problems in Sociocultural or Linguistic Anthropology (SSc)

Supervised independent research in Sociocultural or Linguistic Anthropology.

Prerequisite: P.I.

ANT432H5 Special Seminar in Anthropology (SSc,SCI)

A research oriented seminar with topics that may vary from year to year depending on special interests of staff and students.

Prerequisite: P.I.

ANT434H5 Palaeopathology (SCI)

The study of diseases and maladies of ancient populations. The course will survey the range of pathology on human skeletons, (trauma, infection, syphilis, tuberculosis, leprosy, anemia, metabolic disturbances, arthritis and tumors). [12L, 24P]

Prerequisite: ANT334Y5/ (334H5, 340H5), ANT338H5

ANT438H5 The Development of Thought in Biological Anthropology (SCI)

This course will present a world-wide perspective of biological anthropological research and how it developed in different countries. To be discussed will be variation in approaches, subjects studied, philosophical attitudes, and the emergence of common themes in the study of physical anthropology. [24L]

Prerequisite: ANT203Y5 and two other courses in Biological Anthropology

ANT439Y5 Advanced Forensic Anthropology (SCI)

The identification of the remains of victims of homicide, mass disasters and political atrocities. Special methods are used in the recovery and identification of human skeletal remains for presentation in courts of law. [24L, 48P]

Prerequisite: ANT205H5

Corequisite: ANT306H5, 334Y5/ (334H5, 340H5)

ANT441H5 Advanced Bioarchaeology (SCI)

This course will combine theory learned in ANT340H5, Osteological Theory, with bioarchaeological methods to teach students how to conduct and interpret an osteobiography of human skeletal remains. Lectures and labs will cover techniques of sex determination, age estimation, stature calculation, evaluating health and nutrition, assessing markers of occupational stress, osteometrics, biological distance studies, and paleodemography. [36L]

Prerequisite: ANT334H5, 340H5

Recommended Preparation: ANT434H5

ANT458H5 Bad Guys and Good Subjects: an Anthropology of Power and Law (SSc)

This course will explore the anthropology of crime, law and order with case studies from around the world. The class will delve into themes from political and legal anthropology in terms of one or more of the following: power, governmentality, punishment, courts, nation-states, human rights, colonialism, and post-colonialism. [24L]

Exclusion: ANT458H1

Prerequisite: ANT204H5/ 207H5/ 204Y5

ANT459H5 The Ethnography of Speaking (SSc)

The seminar, Ethnography of Speaking, examines the social use of language, and focuses on the interrelationships between verbal form, social function, and cultural meaning in varying modalities of spoken communicative interaction.[24L]

Prerequisite: ANT206Y5/ 206H5

Recommended Preparation: ANT460H5

ANT460H5 Theory in Sociocultural Anthropology (SSc)

Survey of major theoretical perspectives developed in social and cultural anthropology. The main ideas and underlying assumptions of each perspective will be critiqued and evaluated for their contributions to the field. [24L]

Prerequisite: ANT204H5/ 207H5/ 204Y5

ANT461H5 Advanced Seminar in Sociocultural and Linguistic Anthropology (SSc)

This fourth-year seminar is designed for anthropology majors and specialists with an interest in sociocultural and linguistic anthropology. While seminar themes will vary, the aim is to provide a forum in which advanced students interested in graduate school can discuss cutting edge topics in the discipline. [24L]

Prerequisite: ANT204H5/ 207H5/ 204Y5

This seminar has competitive entry, and is capped at 20. Interested students must apply directly to the department.

ANT498H5 Advanced Independent Study (SSc,SCI)

For students whose original research is leading towards a publishable report.

Prerequisite: P.I.

ANT499Y5 Advanced Independent Research (SSc,SCI)

For students whose original research is leading towards a publishable report.

Prerequisite: P.I.

Art History (HBA)

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Since works of photography, architecture, sculpture, painting and other arts eloquently testify to the values and priorities of the societies that created them, art history provides a key to understanding human cultures in general. The historical processes which created a demand for works of art, helped shape their form and imagery, and instilled them with meaning or significance, provide the basic subject of art history. Students of art history consider both grand and modest works of art, from complex narratives of fresco cycles painted by renowned artists to humble ceramic dishes to films.

U of T Mississauga's unique and varied programs in art history and visual culture teach multiple approaches to understanding art. The Art History programs (Specialist, Major, Minor) balance traditional methods of analysis and interpretation with newer approaches rooted in visual culture and theory.

Specialization in this program may lead to curatorial work in galleries, museums, or corporations; careers in illustration, advertising, web design, film, and graphic design; journalism; teaching at the high school or university level following graduate study; independent artistic activities; or simply to deeper engagement with, and enjoyment of, art.

Students registering in their first year in Art History are encouraged to contact the undergraduate counsellor during the registration period for guidance. CCIT students considering double-majoring in an art program should also meet the undergraduate counsellor to discuss their studies.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

FAH Fine Art History (FAH) (page 51)
VCC Visual Culture and Communication (page 315)
VST Fine Art History (FAH) (page 51)

Specialist Program ERSPE0615 Art History (Arts)

Within an Honours degree, 10.0 credits are required in FAH and VCC (distributed in 4 areas; see Notes). For the complete list of VCC courses that satisfy Art History requirements, see the departmental website. The 10.0 credits *must include*: VST100H5; VST101H5; FAH202H5; VCC201H5, 2.5 additional 200-level FAH credits; and 4.0 300/400-level FAH credits, of which at least 1.0 must be at the 400 level. **Please note that no St. George courses may be substituted for the required 100- or 200-level courses. (For exceptions see Note 2 below).** Students enrolled before Fall 2003 should consult the undergraduate counsellor about completion of their program.

Specialists in Art History are strongly urged to structure their studies as follows:

First Year: 2.0 credits: VST100H5, VST101H5, FAH202H5 and VCC201H5

Second Year: 2.5 credits in FAH at the 200 level
0.5 credit in VCC at any level (see exclusions below)

Third Year: 3.5 credits in FAH at the 300/400 level, of which at least 1.0 must be at the 300 level

Fourth Year: 1.5 credits in FAH/VCC at the 300/400 level, of which 1.0 must be at the 400 level

Notes:

- 2.0 credits from each of the following four areas are required: Ancient & Medieval; 15th-18th centuries; 19th-21st centuries; Visual Culture and Theory. Some courses may satisfy more than one of the distribution requirements. See the departmental website www.utm.utoronto.ca/dvs for the distribution of courses by area.
- No more than 4.0 FAH credits may be taken at the 200 level. VCC201H5 and VCC209H5 do not satisfy FAH 200-level requirements. One 0.5**

credit at the 200 level in FAH may be taken at St. George in an area not covered by U of T Mississauga's offerings (i.e. one of the following courses: FAH248H1, FAH260H1, FAH262H1, FAH270H1, FAH272H1).

- Courses which have significant Art History or Visual Culture content in other programs such as CCIT, Cinema Studies, Philosophy, Drama, English, History, East Asian Studies, and Near and Middle Eastern Civilizations, may be substituted for up to 1.0 FAH/VCC credit only with permission, prior to enrolment, from the program director. For possible substitutes see the undergraduate counsellor.
- RECOMMENDED LANGUAGE STUDY:** Students wishing to pursue graduate studies in Art History must acquire a basic reading knowledge of at least two languages. A minimum of 2.0 in one language, or 1.0 in two languages (total 2.0) is recommended. German, French, and Italian are recommended.
- No more than a total of 16.0 FAH credits may be taken.

Major Program ERMAJ0615 Art History (Arts)

For a major program, 7.0 credits are required from offerings in FAH and VCC, distributed in four areas (see notes). For the list of VCC courses that satisfy requirements for the Art History Major, see the departmental website or the undergraduate counsellor. Courses must include VST100H5, VST101H5, FAH202H5, VCC201H5, plus 2.0 other FAH courses at the 200 level (see following) and 3.0 at the 300/400 level, of which 0.5 must be at the 400 level. **Please note that no St. George courses may be substituted for the required 100 or 200 level courses. (For one exception see note 2 below).** Students enrolled before Fall 2003 should consult the undergraduate counsellor about completion of their program.

Majors in Art History are strongly urged to structure their studies as follows:

First Year: 2.0 credits: VST100H5, VST101H5, FAH202H5, VCC201H5

Second Year: 2.0 FAH credits at the 200 level

Third Year: 2.5 FAH/VCC credits at the 300/400 level

Fourth Year: 0.5 FAH credit at the 400 level

Notes:

- A minimum of 1.0 credit at any level must be taken in each of the following four areas: Ancient & Medieval; 15th-18th centuries; 19th-21st centuries; Visual Culture and Theory. It is highly recommended that students take at least one 300- or 400-level H course in at least three of the four areas. Some courses may satisfy more than one of the distribution requirements. See the departmental website for the distribution of courses by area: www.utm.utoronto.ca/dvs

2. **VCC207H5 and VCC209H5 do not satisfy FAH 200-level requirements. One 0.5 credit at the 200-level in FAH may be taken at St. George in an area not covered by U of T Mississauga's offerings (i.e. one of the following courses: FAH248H1, FAH260H1, FAH262H1, FAH270H1, FAH272H1).**
3. Courses with significant Art History or Visual Culture content in other programs, such as CCIT, Cinema Studies, Philosophy, Drama, English, History, East Asian Studies, and Near and Middle Eastern Civilizations, may be substituted for up to 1.0 FAH/VCC credit only with permission, prior to enrolment, from the program director. For possible substitutes see the undergraduate counsellor.
4. **RECOMMENDED LANGUAGE STUDY:** Students wishing to pursue graduate studies in Art History must acquire a basic reading knowledge of at least two languages. A minimum of 2.0 in one language, or 1.0 in two languages (total 2.0) is recommended. German, French, and Italian are recommended.
5. No more than 10.0 FAH credits may be taken.

Minor Program ERMIN0615 Art History (Arts)

4.0 credits in FAH are required. The following is a list of requirements that must be fulfilled:

1. VST100H5, VST101H5
2. FAH202H5
3. A further 1.5 FAH credits at the 200 level, of which at least 0.5 must be in Ancient & Medieval, 0.5 must be in 15th-18th centuries, and 0.5 credit must be in 19th-21st centuries
4. 1.0 credit in FAH at the 300/400 level

See the departmental website at www.utm.utoronto.ca/dvs for the distribution of courses by area. Please note that no St. George courses may be substituted for the required 100-level and 200-level courses. One 0.5 credit 200-level FAH course may be taken at St. George in an area not covered by U of T Mississauga's offerings (i.e. one of the following courses: FAH248H1, FAH260H1, FAH262H1, FAH270H1, FAH272H1).

First Year: 1.5 credits: VST100H5, VST101H5, FAH202H5

Higher Years: 1.5 credits in FAH at the 200 level
1.0 credit in FAH at the 300/400 level

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

Most courses are offered in alternate years. Please review the timetable and consult with the undergraduate counsellor in Room 3051, CCT Bldg., or see the Department of Visual Studies website for current offerings.

VST100H5 Introduction to Visual Studies 1 (HUM)

This foundational course introduces students to the study of visual images and stresses the importance and development of skills involving looking, reading, and writing as they pertain to the study of the visual. Examples will be drawn from a variety of visual media and a number of different geographic regions and historical periods, and thereby will introduce students to the scope and range of visual practices as well as to the expertise of the Department's faculty members. The first part of this two-part course sequence introduces the core ideas of visual studies (through its keywords), the fundamentals of visual analysis, and the art of describing through close looking exercises. The course also teaches students to write about works in a variety of visual media and to develop critical reading skills of both primary and secondary sources.

Exclusion: FAH105H5

VST101H5 Introduction to Visual Studies 2 (HUM)

This foundational course introduces students to the study of visual images and stresses the importance and development of skills involving looking, reading, and writing as they pertain to the study of the visual. Examples will be drawn from a variety of visual media and a number of different geographic regions and historical periods, and thereby will introduce students to the scope and range of visual practices as well as to the expertise of the Department's faculty members. The second part of this two-part course sequence introduces students to advanced concepts, keywords and core ideas in visual studies as well as historiography, critical theory, and the art of interpreting a work. The course also teaches students to write about works across visual media and continues to develop critical reading skills of both primary and secondary sources.

Exclusion: FAH105H5

Prerequisite: VST100H5

FAH202H5 Introduction to Art History (HUM)

(Formerly FAH105H5) An overview of western art from the ancient world through the 20th century, as well as an introduction to the discipline of art history and its methodologies. Emphasis on representative monuments and key approaches to interpretation. [24L, 12T]

Exclusion: FAH100Y1, FAH101H1, FAH102H1, FAH105H5

Prerequisite: VST100H5, VST101H5

This course may be taken concurrently with VST101H5

FAH203H5 Greek Art and Architecture (HUM)

The art and architecture of the ancient Greek world are surveyed from their origins in the 8th century B.C. city states through the period of Macedonian expansion and imposition of unity under Philip and Alexander. Stress is placed on the major arts (sculpture, painting, and architecture), but reference is also made to luxury metalwork, gems, and the decorative arts. Various genres are introduced. [24L, 12T]

Exclusion: FAH101Y5, FAH207H1

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5

FAH204H5 Roman Art and Architecture (HUM)

Surveys the visual arts of the Mediterranean, ca. 300 B.C. to ca. 300 A.D., moving from early Republican Rome and Empire down to the age of Constantine. The course observes the inheritance of Hellenistic forms of art and patronage by Rome, and the formation of Roman visual culture. Emphasis is on the figural arts, especially sculpture and painting, and on the basic vocabulary of monumental architecture and design. [24L, 12T]

Exclusion: FAH101Y5, FAH207H1

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5, FAH203H5.

FAH267H5 Art of the Medieval Mediterranean (HUM)

Examines the art and architecture of the Mediterranean basin from ca. 200 to 1400 AD. Begins with the rise of Christianity and the challenges it posed to the Roman Empire, and then examines the Byzantine Empire and the lands of Islam. In all three contexts, art and architecture played prominent roles in articulating the spiritual aspirations and political goals of the new religions and empires that embraced them. All three also bear markings of their common Roman cultural inheritance. Considers art in a variety of media, from architecture to ceramics, along with medieval documents and modern art historical texts. [24L, 12T]

Exclusion: FAH102Y5, 261H1, 262H1 (before 2005-6), 263H1, FAH215H1, FAH216H1

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5

FAH271H5 Art of the Medieval North (HUM)

Examines the art and architecture of Northern Europe from ca. 400 to 1400 AD. Establishes the importance of Celtic and "Barbarian" visual culture as distinct from Roman and Mediterranean, and examines various moments when these cultures clashed or were aligned. Assesses early medieval, Carolingian, Ottonian, Romanesque, and Gothic art, including architecture, sculpture, metalwork, and manuscripts, along with medieval documents and modern art historical texts. [24L, 12T]

Exclusion: FAH102Y5, 261H1, 262H1 (before 2005-6), 263H1, FAH215H1, FAH216H1

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5, FAH267H5

FAH274H5 Renaissance Art & Architecture (HUM)

A selective survey of the major art centres, types of artistic production, personalities, and trends in Italy and the North, from the early fifteenth century to the mid-sixteenth. The creation and diffusion of art are addressed through an understanding of historical techniques (media), cultural determinants such as patronage, and significant works of art. [24L, 12T]

Exclusion: FAH200Y5, FAH230H1

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5

FAH279H5 Baroque Art and Architecture (HUM)

An introduction to art and society in Europe, ca. 1600 to ca. 1800 AD. Tensions between the Catholic Church and Protestantism, the rise of powerful, competing courts, the growth of increasingly complex urban centres, and the entry of the "wider public" into the art market all create new roles for representation in Europe. Developments in painting, prints, sculpture, architecture, urban planning and festivals considered. [24L, 12T]

Exclusion: FAH200Y5, FAH231H1

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5, FAH274H5.

FAH285H5 Art and Religion (HUM)

An introduction to the art of the major world religions (examples will mostly be taken from Christianity, Hinduism, and Islam but may also extend to Judaism, Buddhism, and religions of indigenous peoples), examining debates within these traditions around the status of the image as well as the relationship of religious images with the secular notion of 'art.'

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5

FAH287H5 European Art of the Nineteenth Century (HUM)

Surveys major developments in European art and architecture from the late eighteenth through the end of the nineteenth century, including Neoclassicism, Romanticism, Orientalism, Realism, the Pre-Raphaelite Brotherhood, Impressionism, Post-Impressionism and Symbolism. Artistic responses to political change, urbanisation, capitalism, colonialism, the Academy and the Salon will be explored as well as changing constructions of gender, race, class and national identities through visual media. [24L, 12T]

Exclusion: FAH210Y5, FAH208H1, FAH282H1, FAH245H1

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5

FAH288H5 Art of the Earlier 20th Century (HUM)

Surveys principal developments in modern art and architecture from the late 19th century through 1945. Topics covered include key movements, such as Fauvism, Expressionism, Cubism, Futurism, Constructivism, Suprematism, de Stijl, Dada and Surrealism, and key concepts, such as the avant-garde, abstraction, the readymade, the unconscious and the primitive. Readings include manifestos and other writings by artists as well as art historical texts. [24L, 12T]

Exclusion: FAH210Y5, FAH209H1, FAH246H1

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5, FAH287H5

FAH289H5 Art Since 1945 (HUM)

Examines many divergent international art movements and controversies in painting, sculpture, video, installation art, performance, and other new forms, from 1945 to the present. [24L, 12T]

Exclusion: FAH246H1

Recommended Preparation: VST100H5, VST101H5, FAH105H5/ FAH202H5, FAH288H5; (VCC201H5/ equivalent)

FAH291H5 History of Photography (HUM)

Examines the history of photography in Euro-American visual culture and explores how this medium of mass communication has transformed our perceptions and conceptions of art, society, and culture over the past two centuries. Reviews key imagemakers and areas of production concluding with impact of digital imaging. [24L]

Prerequisite: VST100H5, VST101H5 or VCC201H5/ CCT201H5/ FAH201H5

FAH299Y5 Research Opportunity Program (HUM)

This course provides a richly rewarding opportunity for students in their second year to work on the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

FAH301H5 History and Practices of Visual Resource Collecting (HUM)

This course investigates the theoretical and philosophical bases and practical realities of digitizing the visual arts in the context of scholarly research, collection development, publishing, information studies and education in the global environment. Students will examine the historical development and impact of digitization on image collecting as well as current practices and issues facing professionals. A practical, hands-on approach will be an essential part of the course. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and VCC201 and 1.0 credits in FAH/VCC @ 200 level or P.I.

FAH310H5 Introduction to Curatorial Practice (HUM)

An introduction to the problematics of exhibition spaces. The course will survey curatorial strategies tailored for the white cube as well as the multifarious sites invested by curators beyond the conventional (for example: streets, newspapers, broadcast media, domestic spaces). Students will read key texts and analyze a range of projects/sites (i.e. emerging artist-run centres, museum blockbusters, biennials). Students will visit exhibitions and analyze them critically. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and VCC201H5, FAH289H5 and 0.5 additional credit in FAH/VCC

Recommended Preparation: FAH288H5, FAH289H5, FAH388H5

FAH322H5 Romanesque Sculpture (HUM)

A study of architectural sculpture in 11th and 12th-century France and neighbouring countries: origins, sources of form and style, social, religious and functional contexts of selected monuments, also historiography. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, FAH102Y5/ FAH267H5/ FAH271H5

FAH329H5 Early Christian Art & Architecture (HUM)

Examines art and architecture during the emergence of Christianity in the West until ca. 600, focusing primarily on Italy. Assesses the connections between polytheistic, imperial Roman art and new Christian traditions, in a variety of media, including mosaics, metalwork, wall painting, and sculpture. Also considers the role of primary texts in the interpretation of Early Christian art. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, FAH204H5, FAH267H5

Recommended Preparation: FAH105H5

FAH332H5 Studies in Baroque Painting (HUM)

Thematically organized treatment of major figures (Caravaggio, Carracci, Poussin) in the context of art theory and viewer response. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and FAH200Y5/ FAH274H5/ FAH279H5

FAH337H5 Court Art and Patronage in the Middle Ages (HUM)

Art and architecture of royal and imperial families from ca. 800 to 1400 in western Europe, including Norman, Capetian, Plantagenet and Hohenstaufen dynasties. Topics include role of courts in development and diffusion of new styles, and monuments as expressions of piety, chivalry, and political propaganda. [24S] **May be taken for credit for the Specialist/Major programs in Architecture (St. George).**

Exclusion: FAH319H5; FAH327H1

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5 and FAH102Y5/ FAH271H5/ FAH267H5

FAH343H5 Pilgrimage (HUM)

Experience of pilgrimage from an interdisciplinary perspective, with focus on major Christian and Islamic shrines in the Middle Ages. Monuments associated with sites such as Santiago, Jerusalem, and Mecca, as well as objects collected by pilgrims. [24S] **May be taken for credit for the Specialist/Major programs in Religion (U of T Mississauga), Christianity & Culture (St. George) and Architecture (St. George).**

Exclusion: FAH316H1

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5 and FAH102Y5/ FAH267H5

FAH351H5 Gothic Architecture (HUM)

Study of origins, architecture and decoration of the Gothic Cathedral in the Ile-de-France, function and symbolism, intellectual and social contexts, and initial diffusion of the style to other countries. Considers post-medieval Gothic as well. [24S]

Exclusion: FAH268H5, FAH328H1, FAH369H1,

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5 and FAH267H5/ FAH271H5

FAH353H5 Rome in the Age of Bernini (HUM)

Architecture, urbanism and multi-media ensembles of Baroque Rome under Urban VIII, Alexander VII and Innocent X. With particular emphasis on the work of Borromini and Bernini in palace architecture, churches, piazzas, fountains and at the Vatican. [24S] **May be taken for credit for the Specialist/Major programs in Religion (U of T Mississauga), Christianity & Culture (St. George), and Architecture (St. George).**

Exclusion: FAH352H5

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5 and FAH200Y5/ FAH279H5/ FAH274H5

FAH356H5 Colonial Latin American Art and Architecture (HUM)

This lecture course will examine processes of cultural transfer and transformation in the planning of cities, churches, and viceregal palaces from the early days of contact through the Baroque in the Viceroyalties of Mexico and Peru and in Brasil. The persistence of indigenous beliefs and forms will be tracked in painting, sculpture and architecture alongside the emergence of unique genres (i.e. castas, feather paintings), building types and forms based on the particular makeup of a colonial society. [24S]

Prerequisite: VST100H5, VST101H5, FAH202H5 or P.I.

Recommended Preparation: FAH274H5, FAH279H5, HIS290H5, LAS200Y1, HIS291Y1

FAH360H5 Art and Visual Culture of the Eighteenth Century (HUM)

This course examines European painting, sculpture, architecture, landscape architecture, print culture, decorative arts, exhibition strategies, and art criticism of the eighteenth century. Key artists and writers to be studied from the age of enlightenment and revolution include Blake, Burke, David, Diderot, Fragonard, Girodet, Goya, Hogarth, Reynolds, Vigée-Lebrun, Watteau, Winckelmann, Boullee, Ledoux and Wright of Derby. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/

FAH202H5, and at least 1.5 credits in FAH at the 200-level

Recommended Preparation: FAH279H5 and FAH287H5

FAH379H5 Science & Art in the Modern Period (HUM)

Examines the reception of different and developing modern sciences in the fields of art production, exhibition, history and criticism. Topics include examples from anthropology, criminology, geology, natural history, neurology, psychoanalysis, sexology and thermodynamics. Authors studied may include Crary, Freud, Laqueur, Leja, Serres, Silverman and Zemon-Davis. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/

FAH202H5, VCC201H5 and FAH287H5/ FAH288H5, or P.I.

FAH380H5 New Genres in Contemporary Art (HUM)

A study of artistic genres in contemporary art, that include: video, performance, installation, site-specificity, digital media, and relational aesthetics. Such new genres will be studied as alternative modes of artistic practice collaborative, ephemeral, institutionally critical, and discursive, and as a means to address questions and issues such as: public space, community, networks of information, and global capitalism and activism. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/

FAH202H5 and FAH288H5/ FAH289H5

Recommended Preparation: FAH289H5

FAH385H5 Contemporary South Asian Art (HUM)

This course traces a chronology of South Asian art from its genealogies in late colonial image-making traditions from the 1850s-present, situating modernist 'high' art in terms of its conversation with the broader field of cultural practice in modern India: cinema, vernacular bazaar prints, rural and tribal craft traditions, and practices of popular devotion, and 'classical' artistic traditions. It investigates the theoretical and political concerns animating South Asian cultural practices and their criticism (nationalism, Marxism, secularism, anti-fundamentalism, Islam, feminism, postcolonialism, issues of diaspora and globalization), and addresses the key question of how to approach practices of modernism and postmodernism in the postcolony. [24S]

Exclusion: FAH364H1, FAH365H1, FAH392H5 - Topic:

Contemporary South Asian Art

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5 and VCC201H5, FAH288H5/ FAH289H5 or P.I.

Recommended Preparation: VCC302H5

FAH388H5 Theory in Art History (HUM)

Investigates the historical development of the Western discipline of art history through the theories that have shaped it; topics covered include formalism, semiotics, psychoanalysis, the social history of art, feminism, post-colonialism, queer studies and deconstruction. [24S]

Exclusion: FAH351H1

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5 and at least 1.0 credits in FAH/VCC.

FAH392H5 Topics in Modern Art/Architecture (HUM)

An examination of a topic in modern art and or architecture. Topics vary from year to year; the content in any given year depends upon the instructor. This will be a lecture course for approximately 30 students. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5 and FAH287/FAH288H5/ FAH289H5 or P.I.

FAH393H5 Topics in Ancient Greco-Roman Art (HUM)

An examination of a topic in the art and architecture of classical antiquity. Topics vary from year to year; the area of study and content in any given year depends upon the instructor. This will be a lecture course for approximately 30 students. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5 and FAH203H5/ FAH204H5 or P.I.

FAH399Y5 Research Opportunity Program (ROP) (HUM)

This course provides a richly rewarding opportunity for third or higher year students to work on the research project of a professor in art history/theory in return for 399Y course credit. Students enrolled have an opportunity to become involved in original research, enhance their research skills and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project description for the following summer and fall/winter session on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Exclusion: FAH299Y5

FAH423H5 Advanced Studies in the Art of the Medieval Mediterranean (HUM)

Examines the art and architecture of the Mediterranean basin, including Western Christian, Byzantine, Islamic, and Jewish art, from the first century through the fifteenth. Considers their points of convergence as well as their distinct differences and priorities. Organized around key works of scholarship that have defined the emerging field of Mediterranean studies, along with primary sources. Considers works in all media, from monumental arts to textiles, metalwork, manuscripts, and ceramics. Also makes use of local museum holdings. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5, FAH267H5 and at least 1.0 credit in FAH/VCC at the 300/400 level.

Recommended Preparation: FAH105H5, FAH267H5

FAH434H5 Art & Architecture of Medieval Rome (HUM)

This seminar examines the art and architecture of Rome from the first century AD through the fourteenth. It focuses on the city's art and image in the wake of Christianization and its often ambivalent attitudes toward its classical past. Works in all media, from large-scale churches, wall paintings, and icons will be considered, along with liturgical arts and manuscripts. Medieval texts will figure prominently as well. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5, FAH267H5/ FAH271H5/ FAH204H5 and 0.5 at the 300/400 level in Medieval or P.I.

Recommended Preparation: FAH267H5/ FAH343H5

FAH435H5 Women and Art in the Middle Ages (HUM)

An interdisciplinary study, including feminist analysis, of the roles of women in the Middle Ages, their representation in medieval art, and their impact on varying aspects of the art as subject, object, patron or artist. [24S]

Exclusion: FAH425H1

Prerequisite: VST100H5, VST101H5 or FAH105H5/FAH202H5 and FAH102Y5/ FAH267H5/ FAH271H5 and at least 0.5 FAH at 300/400 level.

FAH441H5 Reformation and Counter-Reformation Art (HUM)

Reformation tracts against images and iconoclastic outbreaks in Northern Europe. Response of Counter-Reform with new iconographies, historical accuracy in narrative, Early Christian revival in architecture, image-based devotional practices. [24S] **May be taken for credit for the Specialist/Major programs in Religion (U of T Mississauga) and Christianity & Culture (St. George).**

Exclusion: FAH439H1

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and FAH200Y5/ FAH274H5/ FAH279H5 and 0.5 300/400 level course in Renaissance or Baroque Art or P.I.

FAH449H5 Renaissance Narrative Painting (HUM)

A study of Italian Renaissance istoria or narrative painting in light of Alberti's art theory, devotional modes (Fra Angelico), the eyewitness account (Carpaccio), narrative cycles (Piero della Francesca), etc. Course will examine wide range of 15th-century Italian painting and will include readings in contemporary narrative theory. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and FAH200Y5/ FAH274H5 and 0.5 credit in FAH at the 300/400 level or P.I.

Recommended Preparation: FAH102Y5/ FAH267H5/ FAH271H5

FAH451H5 Curatorial Practice (HUM)

This course will consider the multi-level preparatory stages entailed in the mounting of an exhibition, placing particular emphasis on conceptualization, and on the premise that curatorial practice is an intellectual endeavour that manifests its ideas in form. Contemporary issues (at local, national and international levels) in curatorial practice will be critically examined. Students will research and produce their own exhibitions (hypothetical or actual) with attendant textual documentation.[24S] **FAH451H5 may be counted toward either the FAH or the FAS requirements in the Art and Art History program.**

Exclusion: FAH480H1/ FAH454H1

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, FAH310H5

Recommended Preparation: Intended for advanced students with high standing in the Art History or Art & Art History Program.

FAH453H5 The Archive and the Formless (HUM)

This course is a study of twentieth-century and contemporary art history that draws upon philosophies of the archive (as the formalization of knowledge in terms of origins and ends) and the formless (as a deconstructive force of these very same knowledge formations). Through close readings of key texts by Georges Bataille, Sigmund Freud, Walter Benjamin, Jacques Derrida, and Giorgio Agamben, an understanding of the complex interrelations between the archive and the formless, and their bearing upon twentieth-century and contemporary art history is developed. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and FAH288H5/ FAH289H5 and at least 1.0 in FAH/VCC at the 300-400 level, or P.I.

Recommended Preparation: FAH388H5

FAH454H5 Contemporary Jewish Art (HUM)

This course examines the significance of the visual arts for the study of contemporary Jewish culture, for the construction of Jewish identities, and as an example of Jewish secularization. It does so through a survey of contemporary Jewish artistic production and visual expression with numerous and comparative examples drawn from producers in North America, Europe, and Israel. In addition, the course is attuned to the social and political dimensions and implications of contemporary Jewish art making. It will be organized thematically and cover a range of topics from the challenges faced by visual artists grappling with the Second Commandment and its prohibition of images to the continuing impact of the idea of diaspora on contemporary Jewish artists. The course will also situate its subject matter in relation to larger debates about the emergence of postmodern subjectivities and the place (or displacement) of religion and religious themes in contemporary art in general. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and FAH288H5, FAH289H5, and at least 1.0 credit in FAH or VCC at the 300/400 level.

FAH457H5 Exile & Expatriation in Modern Art (HUM)

Investigates the role of exile, expatriation and alienation in art of the late 19th and 20th centuries. Considering the idea of psychological and/or physical displacement as key to the condition of modernity and the formation of artistic modernisms, we analyse artistic strategies of representing, coping with and/or enacting displacement and alienation (of the artist, the viewer, the object) in the work of Gauguin, Dada artists, Pollock, Morimura, Hatoum, Wodiczko, Whiteread and others. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and FAH287H5/ FAH288H5 and a minimum of 0.5 in FAH/VCC at the 300 level, or P.I.

FAH460H5 Art and Animation (HUM)

This seminar examines the age-old dream of creating animate art from lifelike paintings, and moving statues to automata and androids. In addition to tracing historical shifts in the way Western culture has imagined its artificial counterparts through works of literature, fine arts and film, a major focus of the course will be the effect these creations have on concepts of the human. Readings include Castle, Dick, Freud, Hawthorne, Hoffman, Shelley, Stafford, Ovid and Villiers de l'Isle-Adam. [24S]

Prerequisite: Must be a third- or fourth-year student currently enrolled in one of the following programs: Art History, Art & Art History, Visual Culture and Communication, and Language Studies (English, French, Italian, German). Preference will be given to students in Art History, Art & Art History, and Visual Culture and Communication.

Recommended Preparation: VST100H5, VST101H5 or FAH105H5/ FAH202H5, FAH287H5/ FAH288H5

FAH465H5 Icon, Artwork, Fetish (HUM)

This seminar explores the conceptual categories of icon, artwork and fetish in order to think about the frames of value, desire and power within which images circulate, and the ongoing relationships between art, religion, and commerce. Readings drawn from critical theory, art history, anthropology, religious studies, film studies and psychoanalysis will prepare students to research case studies on the transcultural and transdisciplinary careers of particular objects/images of their choosing. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and FAH288H5/ FAH289H5 and 1.0 credit in FAH or VCC at the 300/400 level or P.I.

Recommended Preparation: VCC302H5/ VCC304H5, FAH388H5

FAH470H5 The History of Art History (HUM)

An introduction for advanced students in art history to the historiography and institutional history of the discipline of art history. This reading-intensive course will focus on major figures and key texts from the 19th century to the present including: Burckhardt, Wölfflin, Riegl, Warburg, Panofsky, Hauser, Baxandall, Schapiro, Alpers, Clarke, Nochlin, and others. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, VCC201H5, 1.5 in FAH @ 200-level and at least 1.0 in FAH/VCC at the 300 level or P.I.

Recommended Preparation: FAH 388

FAH473H5 Writing Aloud: Language Arts (HUM)

A course exploring the cross-pollination between the visual arts and experimental literature. The various tactics utilized to, for example, embed language in a material, to experiment with typography, and to critically employ signage will be investigated. Along with forays into the manifestos of the avant-garde, we will study theoretical texts and contemporary art works by On Kawara, Roman Opalka, Lawrence Weiner, Theresa Hak Kyung Cha, Adrian Piper, Jean-Luc Nancy, Michel de Certeau, Kurt Schwitters, Joseph Kosuth, and Kenneth Goldsmith, amongst others. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, and 1.5 credits at the 200-level in FAH/VCC and 1.0 credit at the 300/400-level in FAH/VCC

FAH475H5 The Performing Body In Performance Art (HUM)

An investigation into the various ways artists have constructed and deconstructed, configured and disfigured, mobilized and paralyzed the body. This course will focus on performance art as it emerged out of the visual arts since WWII. We will examine radicalized manifestations of endurance, repetition, pain, pleasure, display, abjection, ritual, narcissism, and resistance through the work of Marina Abramovic, Michel Foucault, Gilles Deleuze, Vito Acconci, Hannah Wilke, Julia Kristeva, Yoko Ono, Georges Bataille, Chris Burden, and Bruce Nauman, amongst others. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and 1.5 at the 200 level in FAH/VCC and 1.0 at the 300/400 level in FAH/VCC.

FAH479H5 Studies in Curatorial Practice (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH credits including FAH310H and P.I.

FAH480H5 Studies in Ancient Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5 and six FAH courses including a 300+ level half course and P.I.

FAH481H5 Studies in Ancient Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH482H5 Studies in Medieval Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH483H5 Studies in Medieval Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH484H5 Studies in Renaissance Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH485H5 Studies in Renaissance Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH486H5 Studies in Baroque Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH487H5 Studies in Baroque Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH488H5 Studies in Modern Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH489H5 Studies in Modern Art (HUM)

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the undergraduate counsellor before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH490H5 Topics in Ancient Art and Architecture (HUM)

An in-depth examination of a topic in ancient art and or architecture. Topics vary from year to year, and the content in any given year depends upon the instructor. A seminar course limited to 20 students. [24S]

Exclusion: None. Although equivalent courses are on the books at St. George it is highly unlikely that a topics course would have any significant overlap.

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, FAH203H5/ FAH204H5 and 1.0 in FAH or VCC at the 300/400 level

FAH491H5 Topics in Medieval Art and Architecture (HUM)

An in-depth examination of a topic in Medieval art and or architecture. Topics vary from year to year, and the content in any given year depends upon the instructor. A seminar course limited to 20 students. [24S]

Exclusion: None. Although equivalent courses are on the books at St. George it is highly unlikely that a topics course would have any significant overlap.

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, FAH267H5/ FAH271H5 and 1.0 in FAH or VCC at the 300/400 level

FAH492H5 Topics in Modern/Art/Architecture (HUM)

An in-depth examination of a topic in modern art, architecture. Topics vary from year to year, and the content in any given year depends upon the instructor. A seminar course limited to 20 students. [24S]

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, FAH287H5/ FAH288H5 and at least 1.0 in FAH/VCC at the 300/400 level, or P.I.

FAH493H5 Topics in Early Modern Art and Architecture (HUM)

An in-depth examination of a topic in early modern (Renaissance and or Baroque) art and or architecture.

Topics vary from year to year, and the content in any given year depends upon the instructor. A seminar course limited to 20 students. [24S]

Exclusion: None. Although equivalent courses are on the books at St. George it is highly unlikely that a topics course would have any significant overlap.

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, FAH274H5/ FAH279H5 and 1.0 in FAH or VCC at the 300/400 level

FAH494H5 Topics in Contemporary Art and Theory (HUM)

An in-depth examination of a topic in contemporary art and theory. Topics vary from year to year, and the content in any given year depends upon the instructor. A seminar course limited to 20 students. [24S]

Exclusion: None. Although equivalent courses are on the books at St. George it is highly unlikely that a topics course would have any significant overlap.

Prerequisite: VST100H5, VST101H5 or FAH105H5/ FAH202H5, FAH288H5/ FAH289H5 and 1.0 in FAH or VCC at the 300/400 level

Recommended Preparation: FAH288H5, FAH289H5, FAH388H5

Art and Art History (HBA)

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The Art & Art History programs (Specialist, Major), offered in conjunction with Sheridan, combine the study of art history at U of T Mississauga with studio at Sheridan (see Fine Art Studio, or FAS, entries). Incoming A&AH students enroll immediately in major studio arts rather than follow a year of foundation studies in art. The program offers six core studios that students complete in their initial two years of study: drawing, painting, sculpture/installation, print media, design, and photography. In these studios, students are introduced to contemporary art practices through problem-based learning, which encourages a range of personal approaches and solutions to visual expression. In the upper-level studios, students go on to further expertise in two of the core-studio streams, developing a body of self-directed artwork in a class environment of discussion and exchange.

U of T Mississauga's unique and varied programs in art history and visual culture teach multiple approaches to understanding art. Art history and visual culture courses balance traditional methods of analysis and interpretation with newer approaches rooted in the study of visual culture and theory.

Many graduates of these programs remain involved with education by teaching at the primary, secondary or postsecondary level; others have pursued graduate studies in studio art, art history, conservation, curatorial practices or related fields in the humanities, leading to an M.F.A., M.A. or Ph.D. degree. A number of graduates are practicing artists who exhibit their work in artist-run, public and private galleries, both nationally and internationally. Graduates have also flourished in commercial art, including graphic design, advertising, illustration, web design and art direction. With its strong art history component, this program has enabled graduates to pursue administrative or curatorial positions in museums and galleries, as well as work in art criticism and journalism.

Students registering in their first year in Art History or Art & Art History (joint program with Sheridan) are encouraged to contact the program director and Art & Art History program coordinator during the registration period if they have any questions. CCIT students considering double-majoring in an art program should also meet the FAH and FAS faculty and consult with them about their studies.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

FAH	Fine Art History (FAH) (page 51)
FAS	Fine Art Studio (FAS) (page 62)
VCC	Visual Culture and Communication (page 315)
VST	Fine Art History (FAH) (page 51)

Specialist Program ERSPE0714 Art and Art History (Arts)

Within an Honours degree, at least 12.0 credits are required, comprised of 7.0 in FAS (or CCT courses offered from Sheridan) and 5.0 in FAH/VCC courses offered at U of T Mississauga. For the official list of CCT and VCC courses that satisfy Art and Art History requirements see the departmental website. The maximum number of combined FAH and FAS credits is 17.0. Required courses are as follows: FAS143H5, FAS145H5, FAS147H5, FAS232H5*, FAS236H5*, FAS248H5*; and VST100H5, VST101H5, FAH202H5, and VCC201H5. A minimum of 5.0 300/400-level credits in FAH or FAS (see Note 3 for distribution), 1.0 of which must be at the 400 level (in FAH/VCC or FAS or both). **1.5 credits at the 200 level in FAH must be taken at U of T Mississauga (see Note 1 for the St. George exception allowed and Note 2 for required area distribution).** See Notes below for distribution details. Students enrolled before Fall 2003 should consult the undergraduate counsellor about completion of their program.

The following progression of courses is strongly recommended:

First Year: 1.5 credits: VST100H5, VST101H5, FAH202H5
2.0 FAS credits from FAS143H5, FAS145H5, FAS147H5, FAS232H5, FAS236H5, FAS248H5. **All of these courses are open to first year students.**

Second Year: (Any remaining of the required FAS/FAH courses cited above)

0.5 credit: VCC201H5

1.0 FAH credit at the 200 level

1.0 FAS credit at the 200 level

Third Year: 1.0 FAH/VCC credit at the 300/400 level

2.0 FAS credits at the 300/400 level

Fourth Year: 1.0 FAH/VCC credit at the 300/400 level

1.0 FAS credit at the 300/400 level

Notes:

1. Students must take at least 2.0 but no more than 2.5 FAH at the 200 level (including VCC201H5). VCC207H5 and VCC209H5 do not satisfy FAH 200-level requirements. No St. George courses may be substituted for the 200-level FAH requirements. However U of T Mississauga students may take one 0.5 credit 200-level FAH course at St. George in the regular or summer term in an area not covered by U of T Mississauga's offerings (i.e. one of the following courses: FAH248H1, FAH260H1, FAH262H1, FAH270H1, FAH272H1).

2. At least one 200-level H course in FAH/VCC must be taken in three of the following four areas: Ancient & Medieval; 15th-18th centuries; 19th-21st centuries; Visual Culture and Theory (VCC201 satisfies this requirement). See the departmental website www.utm.utoronto.ca/dvs for the distribution of courses by area.
3. Of the required 4.0 300/400-level credits, a minimum of 1.0 must be in FAH/VCC.
4. **As studio space is limited in the 100-level and 200-level FAS courses, priority will be given during the first registration period to students enrolled in the Art & Art History Major/Specialist, Art History Major/Specialist, CCIT Major, VCC Specialist, and to newly-admitted students who indicated the Art & Art History code on their application. Students committed to the program should make sure that they are officially registered in the program as soon as possible.**
5. **All 300-level and 400-level FAS courses must be balloted.** Balloting is the process by which students interested in taking courses are granted permission to enrol. Although these courses are open to all students, priority will be given to students in the Art & Art History, Art History or VCC Specialist programs. FAS Ballot forms and detailed instructions are available February 1st from the Faculty of Animation, Arts and Design, Room A100, Sheridan College, 1430 Trafalgar Rd., Oakville, Ont., L6H 2L1, phone 905-845-9430, ext. 2571.
6. It is recommended that students take at least one of the following "practicum" courses: FAH451H5; FAS453H5, FAS454H5 or FAS455H5.
7. *FAS232H5, FAS236H5 and FAS248H5 are open to first-year students.
8. No more than a combination of 17.0 FAH and FAS credits may be taken.
9. Students enrolling in any FAS course will be required to pay a fee of \$60-\$110 per half credit/\$120-\$220 per full credit. These charges will automatically be added to your University of Toronto student account receivable. This fee covers consumable materials used in studio as well as take-away materials provided to students.

Major Program ERMAJ0714 Art and Art History (Arts)

At least 8.0 credits are required, comprised of at least 4.0 in FAS (or selected CCT courses offered from Sheridan) and 4.0 in FAH/VCC courses offered at U of T Mississauga. For the list of CCT and VCC courses that satisfy Art and Art History requirements, see the departmental website. The maximum number of combined FAH and FAS credits is 13.0. Required courses are as follows: FAS143H5, FAS145H5, FAS147H5, FAS232H5*, FAS236H5*, FAS248H5*; and VST100H5, VST101H5, FAH202H5. A minimum of 2.0 300/400-level credits in FAH/VCC or FAS or

a combination of the two must be included. 2.0 credits at the 200-level in FAH must be taken at U of T Mississauga (see Note 1 for the St. George exception allowed and Note 2 for required area distribution).

See **Notes** below for distribution details. Students enrolled before Fall 2003 should consult the undergraduate counsellor about completion of their program.

The following progression of courses is strongly recommended:

First Year: 1.5 credits: VST100H5, VST101H5, FAH202H5
2.0 FAS credits from the following: FAS143H5, FAS145H5, FAS147H5, FAS232H5*, FAS236H5* FAS248H5*. **All of these courses are open to first year students.**

Second Year: 1.0 remaining credit of the required FAS courses cited above

1.5 FAH/VCC credits at the 200 level

Third/Fourth Year: 1.0 FAH/VCC credit at the 300/400 level

1.0 FAS credit at the 300/400 level

Notes:

- Students must take at least 2.0 but no more than 2.5 FAH at the 200 level. VCC207H5 and VCC209H5 do not satisfy FAH 200-level requirements. No St. George courses may be substituted for the 200-level FAH requirements. However, U of T Mississauga students may take one 0.5 credit 200-level FAH at St. George in the regular or summer term in an area not covered by U of T Mississauga's offerings (i.e. one of the following courses: FAH248H1, FAH260H1, FAH262H1, FAH270H1, FAH272H1).
- At least one 200-level H course in FAH/VCC must be taken in three of the following four areas: Ancient & Medieval; 15th-18th centuries; 19th-21st centuries; Visual Culture and Theory (VCC201 satisfies this requirement). See the departmental website www.utm.utoronto.ca/dvs for the distribution of courses by area.
- Of the required 2.0 300/400-level credits, a minimum of 0.5 must be in FAH/VCC.
- As studio space is limited in the 100-level and 200-level FAS courses, priority will be given during the first registration period to students enrolled in the Art & Art History Major/Specialist, Art History Major/Specialist, CCIT Major, VCC Specialist, and to newly admitted students who indicated the Art & Art History code on their application. Students committed to the program should make sure they are officially registered in the program as soon as possible.**
- All 300-level and 400-level FAS courses must be balloted.** Balloting is the process by which students interested in taking courses are granted permission to enrol. Although these courses are open to all students, priority will be given to students in the Art & Art History program, as studio space is limited. FAS Ballot forms and detailed instructions are available

February 1st from the Faculty of Animation, Arts and Design, Room A100, Sheridan Institute, 1430 Trafalgar Rd., Oakville, Ont., L6H 2L1, phone 905-845-9430, ext. 2571.

- *FAS232H5, FAS236H5 and FAS248H5 are open to first-year students.
- No more than a combination of 13.0 FAH and FAS credits may be taken.
- Students enrolling in any FAS course will be required to pay a fee of \$60-\$110 per half credit/\$120-\$220 per full credit. These charges will automatically be added to your University of Toronto student account receivable. This fee covers consumable materials used in studio as well as take-away materials provided to students.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

All FAS (Fine Art Studio) courses are offered on the Oakville Campus, Sheridan Institute. **As studio space is limited in the 100- and 200-level FAS courses, priority will be given during first registration to students enrolled in the Art & Art History Major/Specialist, Art History Major/Specialist, CCIT Major, VCC Specialist, and to newly admitted students who indicated the Art and Art History code on their application. All 300- and 400-level Fine Art Studio courses will be balloted.** Balloting is the process by which students interested in taking Fine Art Studio courses request permission to enrol. Ballot forms and detailed instructions are available March 1 from the Faculty of the Arts, Room A100, Sheridan Institute, 1430 Trafalgar Road, Oakville, Ont., L6H 2L1, 905-845-9430, Ext. 2571.

Note: Students enrolling in any FAS course will be required to pay a fee of \$60-\$110 per half credit /\$120-\$220 per full credit. These charges will automatically be added to your University of Toronto student account receivable.

FAS143H5 Drawing I (HUM)

Drawing 1 introduces core drawing practices at the entry level. This course provides an opportunity for students to develop their drawing skills, visual vocabulary, and understanding of conceptual and formal approaches to both historical and contemporary practices. Drawing is presented as a technical, interpretive and expressive tool: students make observational drawings from objects, environments, and the figure, and work with imagined and found sources. Sessions include demonstrations, illustrated presentations, and individual assignments. [72P]

Exclusion: VIS130H1, 211H1

FAS145H5 Painting I (HUM)

This course is an exploration of the techniques and subject matter of 20th-century painting in relation to contemporary painting practices. Students work with both observational and conceptual approaches through experimentation with painting's formal elements, traditional and non-traditional painting materials, montage, and abstraction. [72P]

Exclusion: FAS230Y1; VIS201H1, 301H1

FAS147H5 Photography I (HUM)

This introductory course emphasizes the use of photography as a tool for artistic expression. Students will build skills using a manual-operation camera, processing B&W film, creating silver-based photographic prints in the darkroom, and in acquiring basic digital processing and printing techniques in colour photography. Photography is presented as a medium for communication through in-class discussion, analysis and interpretation. [72P]

Exclusion: VIS217H1, 218H1

FAS232H5 Print Media I (HUM)

This course is an introduction to relief and intaglio print media processes within a contemporary context. Students explore and experiment with the materials, techniques and processes of print, and integrate them with formal and contextual concerns. Projects combine research, presentations, discussions and critical thinking. [72P]

Exclusion: VIS203H1, 303H1

FAS234H5 Print Media II (HUM)

This course is a continuation of FAS232H with further explorations of relief printing and etching, and an introduction to screenprinting. The integration of digital imagery and print matrices using photo-editing software is emphasized, while students may incorporate bookworks, drawing and installation. Focus is placed upon individual development with attention to production, quality and technical expertise. [72P]

Exclusion: VIS203H1, 303H1, 309H1

Prerequisite or Corequisite: FAS232H5/P.I.

FAS236H5 Design I (HUM)

This course is an applied investigation of design thinking, theories, techniques and tools. It addresses a range of design issues through a variety of approaches and media. Creative experimentation is encouraged to broaden students' conception of design and its application in other design and art-related disciplines. Assignments introduce students to the fundamental principles of design and concept development through projects involving typography, images, colour, layout, and design software for print and the web. [72P]

Exclusion: FAS146H5

FAS243H5 Drawing II (HUM)

A continuation of FAS143H, this course uses drawing as a resource to create artwork in a variety of materials and processes. Students develop skills in drawing systems, explore digital technologies and work in a range of contemporary hybrid practices to extend drawing's reach. Through assigned projects, illustrated presentations, readings and exhibition reviews, students are presented with issues to research and address in their work. [72P]

Exclusion: VIS205H1, 211H1, 305H1

Prerequisite: FAS143H5/P.I.

FAS245H5 Painting II (HUM)

This course is a continuation of FAS145H. Illustrated discussion/lectures present Canadian and international contemporary painting practices to contextualize assigned, 3-week projects. Students are introduced to in-depth group critiques, a range of painting media and techniques, and portfolio documentation. [72P]

Exclusion: FAS230Y1, VIS201H1, 301H1

Prerequisite: FAS145H5/P.I.

FAS246H5 Design II (HUM)

A continuation of FAS146H, this course is a further applied investigation of design thinking, theories, techniques and tools, from conceptual to practical applications. Assignments in a variety of media address contemporary art and design through in-class and term projects. This course also introduces students to some of the factors affecting design decisions such as mode of communication, intended audience and historical associations. Illustrated presentations, field trips, guest critics, discussions and critiques augment this course. [72P]

Prerequisite: FAS146H5/P.I.

FAS247H5 Photography II (HUM)

A continuation of FAS147H Photography I, this course further develops the use of camera handling and lighting techniques, along with light-sensitive and digital-imaging materials for visual communication and personal expression. Students learn a variety of printing methods including fibre-based printing, sequencing, multiples and other techniques that further develop the creative aspects of the medium. Use of the video camera and basic video editing is introduced. Investigations of historical and contemporary uses of the medium emphasize technical, aesthetic and conceptual considerations. [72P]

Exclusion: VIS318H1

Prerequisite: FAS147H5/P.I.

FAS248H5 Sculpture I (HUM)

This course introduces students to basic sculptural processes and materials, such as casting, mold-making, construction in cardboard, and fabrication in wood, metal and found objects. A series of conceptual exercises provide opportunity for creative problem-solving and critical analysis while challenging conventional models of sculptural production. [72P]

Exclusion: VIS204H1, 306H1

FAS330Y5 Experimentation in Past and Present Techniques (HUM)

This course is a practical investigation of techniques in art that have both historical precedents and contemporary applications. Media covered may include some of the following: mosaic, bas-relief in wood, encaustic, metalpoint drawing, and fresco. Students collaborate to create a mural for a public site. [144P]

Prerequisite: Any FAS200 level course or any FAH100 level course and P.I.

FAS334Y5 Print Media III (HUM)

This course is a continuation of FAS234H with an introduction to stone and plate lithography. Students are asked to complete assigned and self-directed projects, and may choose to consolidate and explore traditional print media, or to work with a combination of print and other two-dimensional, sculptural or installation media of their choice. Increased refinement and sophistication in conception and execution is expected. Students become familiar with issues and examples of contemporary print practice, and discuss and critique works by contemporary artists. [144P]

Exclusion: VIS309H1

Prerequisite: FAS234H5/P.I.

FAS343Y5 Drawing III (HUM)

A continuation of FAS243H, students examine a range of critical and thematic concerns of artists working in drawing today. The course examines the systems and conventions of drawing in the broadest possible sense and includes both traditional media as well as new technologies for video and animation production. Through readings, student-led presentations, discussions, workshops, topical and independent assignments and critiques, students develop a body of work that investigates experimental processes in image production. [144P]

Exclusion: VIS305H1

Prerequisite: FAS243H5/P.I.

FAS345Y5 Painting III (HUM)

This course is a continuation of FAS 245H. Students develop independent research habits to support self-directed projects in painting that are reviewed in a critique setting. Also included are demonstrations of painting media and gallery visits. Artist statement, gallery and visiting artist reviews, contemporary Canadian or international artist presentation, as well as portfolio documentation are required. [144P]

Exclusion: VIS305H1

Prerequisite: FAS245H5/P.I.

FAS346Y5 Design III (HUM)

A continuation of FAS246H, this course presents an opportunity for students to acquire and practice the skills necessary to create real-world art and design-related projects. Design assignments require students to create full or partial design mockups, work in teams, and submit proposals to design competitions within or outside the school. Students explore contemporary art and design via simulated workplace assignments, visual presentations, field trips, guest critics, discussion and critique. [144P]

Prerequisite: FAS246H5/P.I.

FAS347Y5 Photography III (HUM)

This advanced photography course integrates the history and theory of photography with the production of original work, and assists students to develop a critically-informed photography practice. The course focuses on independent student production of photo and/or photo-based artworks in either an analogue or digital format, as well as the completion of assigned projects. Technical topics include digital still imaging technologies and the production of digital prints, as well as the use of strobe lighting and advanced techniques in exposure for colour and black and white. Students develop further expertise in video production.

Studio work is accompanied by regular in-depth critiques, research and presentations on contemporary photographic practice and seminars on theoretical and critical readings. Professional practices for the presentation of photographic work for various applications will also be discussed. [144P]

Exclusion: VIS318H1

Prerequisite: FAS247H5/P.I.

FAS348Y5 Continuing Investigations in Sculpture (HUM)

This course will guide the student through a transition from assignment-driven sculpture projects to self-directed work. The introduction of conceptual approaches, reflective writing on the artwork produced, and a new range of sculpture techniques and materials will augment the technical skills students acquired in Sculpture 1 FAS248H. Illustrated presentations, short readings, visiting artist reviews, an exhibition review, artist presentation, and field trips to fabrication facilities and galleries will accompany the studio work over the two terms. [144P]

Exclusion: VIS306H1

Prerequisite: FAS248H5/P.I.

FAS349Y5 Video, Sound and Performance (HUM)

This studio-based course investigates issues of identity, gender, activism and the body within public and private space. Fieldwork will be emphasized: the locus of the classroom becomes part of a critical inquiry of everyday life or specific public events. Assignments take into consideration the temporal nature of performance, video, sound and interactivity. Students are exposed to a range of interdisciplinary and trans-media approaches such as digital video production and projection, multi-track sound editing, installations and interventions, and online interactivity. Through readings, presentations, discussions, workshops, topical assignments and critiques, students develop a body of work that investigates experimental time-based processes. [144P]

Prerequisite: Any two second-year FAS courses, one of which can be CCT353H5 or CCT357H5.

FAS434Y5 Individual Investigations in Print Media (HUM)

A continuation of FAS334Y, this course is a self-directed, supervised opportunity to define and develop a student's artistic vision with an inter-media approach. Print Media 4 prepares students to work independently or in a professional print studio after graduation. Through research, gallery visits, and discussion, students focus on defining the content and context of their work. Students are asked to examine their work from a critical perspective and to complete a body of related work accompanied by a written statement. [144P]

Exclusion: VIS311H1, 401H1, 402H1, 403H1, 404H1

Prerequisite: FAS334Y5 and P.I.

FAS443Y5 Individual Investigations in Drawing (HUM)

A continuation of FAS343Y5, students develop a portfolio of self-directed work for exhibition, grants and graduate-level or continuing study. Students approach drawing through the development of research and experimentation with contemporary cross-disciplinary practices. Classes include lectures, presentations, critiques, workshops, and field trips to studios, galleries and production and fabrication facilities. [144P]

Exclusion: VIS305H1

Prerequisite: FAS343Y5 or FAS349Y5 and P.I.

FAS445Y5 Individual Investigations in Painting (HUM)

This course is a continuation of FAS345Y. Students develop a cohesive body of self-directed work reflecting an understanding of contemporary and historical painting. Regular critiques are supplemented by gallery visits, and an introduction to professional practices and art criticism. Artist statement, gallery and visiting artist reviews, contemporary Canadian or international artist presentation, as well as portfolio documentation required. [144P]

Exclusion: VIS401H1, 402H1, 403H1, 404H1

Prerequisite: FAS345Y5 and P.I.

FAS446Y5 Individual Investigations in Design (HUM)

A continuation of FAS346Y, this course emphasizes self-directed design projects with regularly scheduled class critiques, presentations on contemporary art and design, and trips to exhibitions. Design assignments require students to create full or partial design mockups, work collaboratively on large projects, and submit proposals to design competitions within or outside the school. Students learn to integrate professional art and design strategies, and to research, coordinate and fully realize their own long-term projects. [144P]

Prerequisite: FAS346Y

FAS447Y5 Individual Investigations in Photography (HUM)

This advanced photography course integrates the history and theory of photography with the production of original work, and assists students to develop a critically informed student production of photo and/or photo-based artworks in either an analogue or digital format. Studio work is accompanied by regular in-depth critiques, research and presentations on contemporary photographic practice and seminars on theoretical and critical readings. Professional practices for the presentation of photographic work for various applications will also be discussed. [144P]

Exclusion: VIS401H1, 402H1, 403H1, 404H1

Prerequisite: FAS347Y5 and P.I.

FAS448Y5 Individual Investigations in Sculpture (HUM)

This course is a continuation of FAS348Y. Students produce a coherent body of work based on research and written proposals. In their artwork, students explore their own identity and work in the context of contemporary sculpture practices, acknowledging both a theoretical and historic framework. Students should become aware of the relationship between the production and presentation of artwork, and be able to identify the audience for and the specific context within which their artwork might be presented. Class includes lectures, presentations, critiques, workshops, and field trips to studios, galleries and fabrication facilities. [144P]

Exclusion: VIS401H1, 402H1, 403H1, 404H1

Prerequisite: FAS348Y5 or FAS349Y5 and P.I.

FAS450Y5 Advanced Project (HUM)

In this directed study, an independent studio project is chosen by the student and supervised by faculty member(s). A written proposal must be submitted to, and approved by, the department before registration. In addition to the completion of a body of work, students will prepare an illustrated and written account of the impact of research on their artwork. Students wishing to undertake an Advanced Project must have already completed the highest level of their chosen sub-discipline. Advanced Project students must have a B+ standing in the fourth year of the studio discipline in which they intend to submit a proposal. [144P]

Exclusion: VIS311H1, 401H1, 402H1, 403H1, 404H1

Prerequisite: FAS451H5, FAS452H5

FAS451H5 Advanced Project (HUM)

In this directed study, an independent studio project is chosen by the student and supervised by faculty member(s). A written proposal must be submitted to, and approved by, the department before registration. In addition to the completion of a body of work, students will prepare an illustrated and written account of the impact of research on their artwork. Students wishing to undertake an Advanced Project must have already completed the highest level of their chosen sub-discipline. Advanced Project students must have a B+ standing in the fourth year of the studio discipline in which they intend to submit a proposal. [72P]
Exclusion: VIS311H1, 401H1, 402H1, 403H1, 404H1
Prerequisite or Corequisite: 1.0 FAS 400-level course, Permission of the Department

FAS452H5 Advanced Project (HUM)

In this directed study, an independent studio project is chosen by the student and supervised by faculty member(s). A written proposal must be submitted to, and approved by, the department before registration. In addition to the completion of a body of work, students will prepare an illustrated and written account of the impact of research on their artwork. Students wishing to undertake an Advanced Project must have already completed the highest level of their chosen sub-discipline. Advanced Project students must have a B+ standing in the fourth year of the studio discipline in which they intend to submit a proposal. [72P]
Exclusion: VIS311H1, 401H1, 402H1, 403H1, 404H1
Prerequisite or Corequisite: 1.0 FAS 400-level course, Permission of the Department

FAS453H5 Art Education Practice (HUM)

This course outlines principles of educational theory and practice for teaching visual arts studio and art history courses. It explores teaching dynamics, types of learning, curriculum design, assessment and evaluation, and the history of art education. Students will have opportunities to observe and interact with practicing educators in a variety of educational settings. Balloted course intended for students with high standing in the Art and Art History or Art History Program.[24S, 12P]
Prerequisite: For Art and Art History majors/specialists: 4.0 FAS courses and 2.0 FAH courses, Permission of the Department.

For Art History majors/specialists: 1.0 course in FAH at the 300/400 level, Permission of the Department.

FAS454H5 Professional Practice (HUM)

This course outlines professional and business requirements of establishing a career as a practicing visual artist. Topics covered include portfolio development, exhibition presentation and organization, public art competitions, photo documentation, writing grant proposals, marketing, taxes, and bookkeeping. Guest lectures will augment students' research into the career paths of a range of arts professionals. Balloted course intended for students with high standing in the Art and Art History or Art History Program.[24S, 12P]

Prerequisite: For Art and Art History majors/specialists: 4.0 FAS courses and 2.0 FAH courses, Permission of the Department.

For Art History majors/specialists: 1.0 course in FAH at the 300/400 level, Permission of the Department.

FAS455H5 Teaching Art in the School and Community (HUM)

This practicum course provides fourth-year students with hands-on teaching experience allowing for interaction with administrators, teachers, and community leaders. Students plan workshops and classes, write and deliver curriculum, and work within a budget. As a summary, students then document and evaluate their teaching experiences. [15S, 24P]

Exclusion: None

Prerequisite: For Art and Art History majors/specialists: 4.0 FAS courses and 2.0 FAH courses, Permission of the Department.

For Art History majors/specialists: 1.0 course in FAH at the 300/400 level, Permission of the Department.

Corequisite: None

Recommended Preparation: FAS453H5

Astronomical Sciences (HBSc)

Professor Emeritus

J.R. Percy, B.Sc., M.A., Ph.D.

Professors

J.B. Lester, B.A., M.Sc., Ph.D.

Chair

Department of Chemical and Physical Sciences
P.M. Macdonald
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Faculty Advisor

Professor J.B. Lester
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Undergraduate Assistant

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Astronomy, of all the sciences, is perhaps the most wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and the whole universe; the conditions for the origin of life on earth and elsewhere; the behaviour of matter in environments never experienced on earth, and in general, the influence of the universe on mankind's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

AST Astronomy (page 68)
JCP Chemistry (page 92)
MAT Mathematics (page 256)
PHY Physics (page 270)
STA Statistics (page 306)

Specialist Program ERSPE1025 Astronomical Sciences (Science)

Within an Honours degree, 13.5 credits are required.

First Year: AST110H5; MAT102H5, 135Y5/ 137Y5, MAT223H5; PHY135Y5/ (136H5,137H5) (70% recommended)

Second Year: AST221H1(G), 222H1(G); MAT232H5/ 233H5, 242H5, 368H5; PHY241H5, 242H5/ JCP221H5, 245H5

Third Year: AST320H1(G); JCP321H5, 322H5; MAT311H5, 334H5; PHY325H5, 347H5

Fourth Year: AST425Y1(G); JCP421H5, PHY451H5, STA220H5/ 257H5

Astronomy (HBSc)

Professor Emeritus

J.R. Percy, B.Sc., M.A., Ph.D.

Professors

J.B. Lester, B.A., M.Sc., Ph.D.

Chair

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Astronomy, of all the sciences, is perhaps the most wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and the whole universe; the conditions for the origin of life on earth and elsewhere; the behaviour of matter in environments never experienced on earth, and in general, the influence of the universe on mankind's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education.

Astronomy offers courses that could be of interest to every student at U of T Mississauga. Four of these are introductory courses: AST101H5, 110H5, 201H5, 252H5. AST101H5 and AST201H5 are both intended for students from outside the sciences, while AST 110H5 and AST252H5 are designed for students who have some background in science.

- AST101H5 introduces students to the historical background of astronomy and continues through to the modern discoveries about the solar system and the development of modern telescopes and observatories, both on the ground and in space.
- AST110H5 provides an introduction to observing and analysis.
- AST201H5 surveys the structure and evolution of the stars, galaxies, and the universe as a whole.
- AST252H5 is a unique interdisciplinary course that examines the broad topics of the origin and evolution of the universe, galaxies, stars, planets, and life. This course is intended for students who have some background in the sciences.

Students interested in either the Astronomical Sciences or the Astronomy program should consult the Astronomy faculty advisor at U of T Mississauga as early as possible in their **first year**. The faculty advisor can also provide information and advice about the astronomy courses and programs available on the St. George Campus.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

AST Astronomy (page 68)
JCP Chemistry (page 92)
MAT Mathematics (page 256)
PHY Physics (page 270)

Major Program ERMAJ2204 Astronomy (Science)

8.5 credits are required.

First Year: AST110H5; MAT102H5, 135Y5/ 137Y5, MAT223H5; PHY135Y5/ (136H5,137H5) (70% recommended)

Second Year: AST221H1(G), 222H1(G); MAT242H5, 232H5/ 233H5, 368H5; PHY241H5, 245H5

Third Year: AST320H1(G); JCP321H5; JCP322H5/ one 300/400-level half-course approved by the faculty advisor.

List of Courses

AST101H5 Solar System Astronomy (SCI)

This course traces our understanding of solar system objects from prehistoric times to the present. The impact of telescopes and space observatories is outlined. This course is for "non-science" students as defined by the exclusion below. [36L]

Exclusion: AST252H5; a 100 or higher level course in Chemistry or Physics with the exception of PHY205H5 and PHY206H5.

AST110H5 Practical Astronomy (SCI)

This course gives a quantitative, scientific introduction to observing, concentrating on objects that can be seen with the naked eye or with binoculars. The measurements will be combined with calculations to yield quantitative conclusions and predictions. This is the first course for students following the major in astronomy or the specialist in astronomical sciences, but it is also suitable for students with the appropriate background who want to understand more fully the celestial phenomena visible to them. [24L, 12T]

Exclusion: AST325H1

Recommended Preparation: SPH4U; MHF4U; MCV4U

AST201H5 Stars and Galaxies (SCI)

This course surveys current ideas about the structure and evolution of astronomical objects ranging from the stars to the universe as a whole. This course is intended for "non-science" students as defined by the exclusion below. This course does not require AST101H5, but it may be combined with AST101H5 for a full-course credit in science for distribution purposes. [36L]

Exclusion: AST252H5; a 100 or higher level course in Chemistry or Physics with the exception of PHY205H5 and PHY206H5.

AST252H5 Cosmic Evolution (SCI)

The origin and evolution of the chemical elements, the universe, galaxies, stars, planets (interiors and atmospheres), and life - on earth and possibly elsewhere. [24L]

Exclusion: AST101H5, 121H1, 201H5, 221H1, 251H1
Prerequisite: CHM140Y5/ (110H5,120H5)/PHY135Y5/ (136H5,137H5)

Not offered in 2012-13.

AST299Y5 Research Opportunity Program (SCI)

This courses provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Behaviour, Genetics, and Neurobiology (HBSc)

Offered through the Department of Psychology**Program Advisors**

Dr. S.B. Kamenetsky
 905-828-3958
 stuart.kamenetsky@utoronto.ca

Prof. D.A. Monks
 905-569-4957
 ashley.monks@utoronto.ca

This interdisciplinary program considers physiological and genetic contributions to behaviour. This emerging discipline represents an integrative approach to the study of behaviour that brings together the tremendous gains in knowledge in neuroscience and genetics that have been made in the past few decades. Students will have the opportunity to take lecture and laboratory courses and carry out research projects with faculty members. This program provides an excellent theoretical and empirical background for students interested in pursuing graduate studies in behavioural neuroscience, behaviour genetics and related fields.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO	Biology (page 76)
CHM	Chemistry (page 92)
ECO	Economics (page 143)
MAT	Mathematics (page 256)
PSY	Psychology (page 287)
STA	Statistics (page 306)

Specialist Program ERSPE2470 Behaviour, Genetics, and Neurobiology (Science)

11.5 credits are required, including at least 3.0 300/400 level credits and 1.0 400 level credits.

Limited Enrolment – Enrolment is limited to students who have:

1. completed 8.0 credits;
2. successfully completed BIO152H5, 153H5, CHM140Y5/ (110H5, 120H5) and MAT134Y5/ 135Y5/ 137Y5;
3. at least 77% as the average of PSY201H5, 202H5 (or equivalent), and at least 1.0 FCE from: BIO205H5/ 206H5/ 207H5/ PSY252H5/ 290H5
4. a minimum CGPA of 3.0

First Year: PSY100Y5; BIO152H5; BIO153H5;
CHM140Y5/ (110H5,120H5); MAT134Y5/ 135Y5/ 137Y5

Second Year:

1. (PSY201H5, 202H5)/ (BIO360H5, 361H5)/
(ECO220Y5/ 227Y5)/ (STA220H5, 221H5)
2. BIO205H5; BIO206H5; BIO207H5; PSY252H5;
PSY290H5

Second year notes:

- BIO204H5 (Introduction to Physiology) is required for several courses in the Neurobiology stream
- BIO215H5 (Laboratory in Molecular Biology and Genetics) is required for several courses in the Genetics stream
- PSY210H5 (Introduction to Developmental Psychology) is required for several courses in the Behavioural stream

Students are encouraged to consider taking these courses depending on their planned course of study.

Third Year: 1.0 credit from each of the following three streams:

1. Behaviour: BIO318Y5/ 328H5, PSY316H5, 318H5, 346H5, 351H5, 353H5, 354H5, 355H5, 360H5, 362H5, 385H5, 393H5, 395H5, 397H5, 398H5, 399H5
2. Genetics: BIO314H5, 315H5, 341H5, 372H5, 407H5, 476H5, PSY355H5
3. Neurobiology: BIO304H5, 409H5, 310H5, 380H5, PSY318H5, 346H5, 385H5, 393H5, 397H5, 399H5

Third year note:

- Students interested in taking PSY400Y5 are advised to take PSY309H5.

Fourth Year:

1. One seminar from the following: BIO403H5, 406H5, 407H5, 478H5, PSY490H5, 495H5
2. One thesis/ research project from the following: BIO481Y5, PSY400Y5, 403H5/ 404H5/ 405H5/ 406H5

Important notes about Psychology programs and courses.

1. Enrolment in all programs offered by the Psychology Department is limited. Students who do NOT earn a sufficiently high grade in PSY100Y5 to be eligible for enrolment may reapply when they satisfy the second-year requirements and are encouraged to consult with the Undergraduate Advisor. Further information is available on the Psychology Department website.

www.utm.utoronto.ca/psychology

2. **Access to courses.** PSY309H5, 319H5, 329H5, 379H5, 399H5 and all 400 level courses have limited enrolments and are normally restricted. Access to all other 300 level courses will be controlled by the Department. Priority is given to students enrolled in programs offered by the Psychology Department. Spaces are allotted on the basis of CGPA. Highest priority is given to students enrolled in one of the Specialist Programs. Consult the U of T Mississauga Registration Guide (available at www.utm.utoronto.ca) for specific information.

3. Students may take no more than 2.0 credits combined in ROP, Individual Projects or Thesis courses (contact Undergraduate Advisor for exemptions).
4. **Students who wish to take Psychology courses at the St. George campus may do so provided that they have completed the prerequisite courses and have obtained permission from the Psychology Undergraduate Advisor at the St. George Campus.** If they wish to use these courses to fulfill U of T Mississauga program requirements, they must also consult the undergraduate advisor at U of T Mississauga.

IMPORTANT: Students without pre- and co-requisites or written permission of the undergraduate advisor can be de-registered from courses at any time.

Bioinformatics (HBSc)

Offered through the Department of Mathematical and Computational Sciences

Chair

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Program Advisors

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Office Hours: By Appointment

Andrew Petersen
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Timothy Westwood
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Undergraduate Counsellor

Yvette Ye
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Bioinformatics involves the computational analysis of gene and genome sequences as well as functional genomic data. It is an interdisciplinary science that requires strong backgrounds in computer science and molecular biology, and good knowledge of mathematics, statistics, chemistry, genetics and evolutionary biology.

The Bioinformatics Specialist Program reflects the interdisciplinary nature of the field, and the courses drawn from the offerings in Biology, Chemistry, Computer Science, Mathematics and Statistics.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO	Biology (page 76)
CBJ	Computer Science (page 125)
CHM	Chemistry (page 92)
CSC	Computer Science (page 125)
JCP	Chemistry (page 92)
MAT	Mathematics (page 256)
STA	Statistics (page 306)

Specialist Program ERSPE1868 Bioinformatics (Science)

Within an Honours degree, 14.5 credits are required.

Limited Enrolment – Enrolment in this program is limited. Students who wish to enrol at the end of the first year (4.0 credits) must have passed all the courses listed for the first year, attained at least 60% in all 100-level computer science and mathematics courses, and have a minimum Cumulative Grade Point Average (CGPA) of 2.0.

Tuition fees for students enrolling in this program are higher than for other Arts and Science programs.

First Year (4.0 credits): BIO152H5; CHM110H5, 120H5; CSC108H5, 148H5; MAT102H5, 134Y5/ 135Y5/ 137Y5

Second Year (4.0 credits): BIO206H5, 207H5, 215H5; CHM242H5; CSC207H5, 236H5, 263H5; MAT223H5

Third Year (2.0 credits): MAT212H5/ 242H5, MAT232H5; STA257H5, 258H5

Upper Years (4.5 credits): BIO314H5, 372H5, 477H5; CSC321H5/ 411H5, 343H5, 373H5; MAT332H5 At least 1.0 credit from the following list of recommended courses, of which at least 0.5 must be at the 400-level: BIO315H5, 341H5, 370Y5, 371H5, 380H5, 443H5, 481Y5; CBJ481Y5; CHM361H5; CSC310H5, 338H5, 363H5; JCP410H5; STA302H5/ 331H5, 348H5, 442H5

Notes

1. Students need to obtain permission from the instructors to take BIO207H5 without the BIO153H5 prerequisite.
2. If BIO477H5 is not offered in the fourth year of a student's studies, he or she must take an additional 0.5 credit from the recommended 400-level courses.
3. Students intending to take CHM361H5 as one of their recommended courses must take CHM243H5 as a prerequisite course.
4. All third and fourth year CSC courses have a writing requirement. The recommended course for satisfying that requirement is CSC290H5, but students may substitute a different writing course. If a student wishes to substitute another course to satisfy the writing requirement, the student should consult a Bioinformatics Faculty Advisor.
5. The combination of (MAT134Y5/ 135Y5/ 137Y5 and MAT232H5) may be replaced by the combination of (MAT133Y5 and MAT233H5).

Biological Chemistry (HBSc)

For information on Biological Chemistry, please refer to the Chemistry (HBSc) (Page 90) program.

Biology (HBSc)

Professors Emeriti

P.W. Ball, B.Sc., Ph.D.
W.R. Cummins, B.Sc., Ph.D.
P.A. Horgen, B.A., M.Sc., Ph.D.
P.F. Maycock, B.A., M.Sc., Ph.D.
G.K. Morris, B.S.A., M.Sc., Ph.D.
W.G. Sprules, B.Sc., M.A., Ph.D.
J. Svoboda, B.Sc., Ph.D.

Professors

J.B. Anderson, B.A., Ph.D.
H.M. Cheng, B.Sc., M.Sc., Ph.D.
N.C. Collins, B.A., Ph.D.
I. Ensminger, B.Sc., Ph.D.
G.S. Espie, B.Sc., Ph.D.
D.T. Gwynne, B.Sc., Ph.D.
M. Johnson, B.Sc., Ph.D.
L.M. Kohn, B.Sc., Ph.D.
P.M. Kotanen, B.Sc., M.Sc., Ph.D.
A.B. Lange, B.Sc., Ph.D.
J. Levine, M.A., Ph.D.
I. Orchard, B.Sc., Ph.D., D.Sc.
J. Parker, B.Sc., M.Sc., Ph.D., M.B.A.
F. Rawle, B.Sc., Ph.D.
R.R. Reisz, B.Sc., M.Sc., Ph.D.
L. Revers, B.A., M.A., Ph.D.
C. Richter, B.Sc., M.Sc., Ph.D.
S.M. Short, B.Sc., Ph.D.
M.B. Sokolowski, B.Sc., Ph.D., F.R.S.C.
S. Stefanović, B.Sc., M.Sc., Ph.D.
B.A. Stewart, B.Sc., M.Sc., Ph.D.
H. Wagner, M.Sc., Ph.D.
J.T. Westwood, B.Sc., Ph.D.
G. Yang, B.Sc., M.Sc., Ph.D.

Department Chair

Bryan Stewart

Biology Undergraduate Advisor

Yen Du
Room 3057, William G. Davis Bldg.
905-828-3999

Biology is the study of living organisms and involves observation and analysis of the tree of life. The foundation of biology is based upon the core concepts of evolution: natural selection and speciation. The study of biology is applicable to such major problems as conservation, overpopulation, pollution, medicine and disease.

Career opportunities open to graduates in Biology include teaching; governmental research in areas such as environmental problems, natural resources, wildlife management, conservation, pollution and pest control; business and industry, including biological supply companies, pharmaceuticals, food and dairy industries and biotechnology; medical, dental and related fields including physiological or microbiological research.

The Biology undergraduate advisor is available for help with choosing courses and discussing program requirements.

Effective biological training involves careful study of real organisms, both living and dead. Consequently, almost all Biology courses with laboratories involve students in one or more of the following activities with animals, plants, and/or microorganisms: collecting and preserving organisms from the field; dissecting or handling preserved or euthanized specimens (or properly anaesthetized living specimens); observing and making measurements on organisms maintained under laboratory conditions approved by the Canadian Council of Animal Care. Completion of Specialist or Major programs in Biology will require students to participate in many such activities. Therefore, **students who have objections to such activities should not attempt to major or specialize in Biology at U of T Mississauga.** Students in non-Biology programs who wish to take a Biology course with minimal direct contact with organisms should consult the Biology Undergraduate Advisor.

In obtaining organisms for study in our courses and in studying outdoor natural areas, the Biology Department takes measures to avoid any impacts on threatened organismal groups or rare habitats, and to limit below sustainable levels the impacts of our collecting and measuring on local animal and plant populations.

Students wishing to pursue a program in Biology should take CHM, MAT and a full course equivalent in BIO in their first year.

For biology-related programs see:

- Behaviour, Genetics and Neurobiology
- Bioinformatics
- Biomedical Communications
- Biotechnology
- Forensic Science

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
BIO	Biology (page 76)
CHM	Chemistry (page 92)
CLA	Classics (page 100)
CSC	Computer Science (page 125)
ENV	Environment (page 166)
ERS	Earth Science (page 139)
GGR	Geography (page 196)
JBC	Biology (page 76)
MAT	Mathematics (page 256)
PHY	Physics (page 270)
PSY	Psychology (page 287)
STA	Statistics (page 306)
WRI	Professional Writing and Communication (page 281)

Specialist Program ERSPE0482 Comparative Physiology (Science)

Within an Honours degree, 14.0 credits are required, including at least 5.0 at the 300/400 level, of which 1.0 must be at the 400 level.

Limited Enrolment – Enrolment in this program is limited. Students wishing to enrol at the end of the first year (4.0 credits) must obtain a grade of at least 65% in CHM140Y5 and a cumulative grade point average of at least 2.50 to qualify. Students enrolling after completing 8.0 credits must have achieved a grade of at least 70% in BIO204H5 and a cumulative grade point average of at least 2.50.

BIO152H5, 153H5 are prerequisites for most 300 level BIO courses and should be completed by the end of second year.

First Year:

1. BIO152H5, 153H5; (CHM110H5, 120H5)/ CHM140Y5; MAT134Y5/ 135Y5/ 137Y5
2. 1.0 credit from the following: CLA201H5; ENV100Y5; ERS120H5; (PHY136H5, 137H5)/ PHY135Y5, PSY100Y5; WRI203H5, 307H5

Second Year: BIO204H5, 205H5, 206H5, 207H5, 210Y5, 215H5

Third and Fourth Years:

1. BIO304H5, 310H5, 312H5, 360H5, 409H5; (CHM242H5, 243H5)
2. At least 2.0 credits from: BIO329H5, 354H5, 361H5, 372H5, 410H5, 411H5, 434H5, 481Y5; CHM361H5, 362H5; PHY331H5, 332H5; PSY290H5, 395H5
3. 1.0 additional BIO credit

No substitute statistics course will be allowed for BIO360H5.

Students may take no more than 2.0 credits combined in ROP, Internship Program, or Individual Project / Thesis courses at the 300/400-level for credit toward their Biology program.

Students must consult with the Undergraduate Advisor before enrolling in any St. George course that they wish to use for credit toward any Biology program.

Specialist Program ERSPE1020 Ecology and Evolution (Science)

Within an honours degree, 13.5 full course equivalents are required, including at least 6.0 at 300/400 level, of which 1.5 full course must be at the 400 level.

Limited Enrolment – Enrolment is limited to students who have completed 4.0 credits (including BIO152H5 and BIO153H5) with a cumulative grade point average of 2.50.

First year:

1. BIO152H5, 153H5; (CHM110H5, 120H5)/ CHM140Y5; MAT134Y5/ 135Y5/ 137Y5
2. 1.0 credit from the following: CLA201H5, CSC108H5, 148H5; ENV100Y5; ERS120H5; (PHY136H5, 137H5)/ PHY135Y5; PSY100Y5; WRI203H5, 307H5

Second year: BIO204H5, 205H5, 206H5, 207H5

Third and Fourth years:

1. BIO313H5 and BIO342H5
2. BIO360H5
3. 1.0 credit from courses in organismal biology: BIO325H5, 338H5, 335H5, 354H5, 356H5, 370Y5
4. 0.5 credit from field courses: BIO416H5, other 2-week OUPFB** Field Courses
5. 2.5 credits from core ecology/evolutionary biology courses: BIO311H5, 329H5, 330H5, 333H5, 339H5, 341H5, 361H5, 373H5, 406H5, 445H5, 443H5, 464H5, GGR312H5
6. 1.0 credits from other biology courses: BIO215H5, 310H5, 312H5, 314H5, 318Y5, 371H5, 372H5, 407H5, 409H5, 410H5, 434H5, 481Y5
7. 1.0 credit from related courses from other departments: MAT212H5, 222H5, 232H5; STA302H5, 322H5; GGR227H5, 278H5 (formerly GGR261), GGR305H5, 307H5, 309H5, 311H5, or from courses listed in #4, #5 and #6

** Ontario Universities Program in Field Biology

No substitute statistics course will be allowed for BIO360H5.

Students may take no more than 2.0 credits combined in ROP, Internship Program, or Individual Project / Thesis courses at the 300/400-level for credit toward their Biology program.

Students must consult with the Undergraduate Advisor before enrolling in any St. George course that they wish to use for credit toward any Biology program.

Specialist Program ERSPE1237 Molecular Biology (Science)

Within an Honours degree, 14.0 credits are required.

Limited Enrolment – Enrolment in this program is limited. Students wishing to enrol at the end of first year (4.0 credits) must obtain a grade of at least 'C' (63%) in (CHM110H5, 120H2)/ CHM140Y5 and a cumulative grade point average of at least 2.50 to qualify. Students who do not meet these criteria can apply to enter the Specialist at the end of second year (8.0 credits) with the following new criteria: a grade of at least 70% in BIO206H5 and a cumulative grade point average of at least 2.50.

First Year: BIO152H5, 153H5; (CHM110H5, 120H5)/ CHM140Y5; MAT134Y5/ 135Y5/ 137Y5; plus 1.0 of CLA201H5; ENV100Y5; ERS120H5; (PHY136H5, 137H5)/ PHY135Y5; PSY100Y5; WRI203H5, 307H5

Second Year: BIO204H5, 205H5, 206H5, 207H5, 215H5; (CHM242H5, 243H5)

Third Year: BIO314H5, 315H5, 360H5, 370Y5, 372H5; CHM361H5, 362H5, 371H5; plus 0.5 of BIO304H5, 310H5, 341H5, 374H5, 375H5, 380H5; CHM347H5; PHY335H5; BCH335H1, 340H1

Fourth Year: BIO477H5* plus 1.0 of: BIO407H5, BIO411H5, 443H5, 476H5, 481Y5; BCH441H1; CHM462H5, 489Y5; JBC472H5, CSB435H1, 450H1, 459H1, 472H1, 473H1, 474H1, 475H1; MGY425H1, 428H1, 440H1, 445H1, 451H1, 452H1, 470H1, MIJ485H1

*In the event that BIO477H5 is not offered during the 4th year of student's studies, the student must take 1.5 credits from the Fourth Year list above. In such a year, MGY420H1 may be taken.

Notes:

1. Students wishing to enrol in this program are asked to see the program advisor in their first year.
2. BIO206H5 can be taken in the first year of studies provided special permission is obtained from the program advisor.
3. Students intending to continue into Graduate Studies should consider including a course in independent research in Year 4.
4. Students may take no more than 2.0 credits combined in ROP, Internship Program, Individual Project/ Thesis courses at the 300/400-level for credit toward their Biology program.
5. No substitute statistics course will be allowed for BIO360H5.

Specialist Program ERSPE2364 Biology (Science)

Within an Honours degree, 13.0 credits are required, including at least 6.0 at the 300/400 level, of which 1.0 must be at the 400 level.

Limited Enrolment – Enrolment in this program is limited to students who have completed 4.0 credits, including 1.0 full credit in Biology with 60% or better, and who have achieved a cumulative GPA of at least 2.5. The actual GPA requirement in any particular year may exceed this value, in order to achieve a proper balance between enrolments and teaching resources. The undergraduate advisor may make alternative arrangements for admission to the Specialist Program in special circumstances. Students who have not attained the standard required to enter the Specialist Program may enrol in the Major or Minor Programs. If their GPA rises to 2.5, and they have completed CHM140Y5, BIO151Y5/ (152H5, 153H5), 204H5, 205H5, 206H5, 207H5 and 215H5, they will then be eligible to switch to the Specialist Program.

BIO152H5, 153H5 are prerequisites for most 300-level BIO courses and should be completed by the end of second year.

First Year:

1. BIO152H5, 153H5; (CHM110H5, 120H5)/ CHM140Y5; MAT134Y5*/135Y5/ 137Y5
2. 1.0 from the following: CLA201H5; ENV100Y5; ERS120H5; (PHY135H5, 137H5)/ PHY135Y5, PSY100Y5; WRI203H5, 307H5

Second Year: BIO204H5, 205H5, 206H5, 207H5, 215H5

Third and Fourth Years: BIO313H5/ 314H5/ 409H5, plus BIO360H5.

5.5 additional BIO credits. At least 5.0 of these credits must be at the 300 level or above, of which at least 1.0 must be at the 400 level.

It is recommended that students in the specialist program include at least 0.5 credit from each of four of the following groups:

- **Ecology and Field Biology:** BIO311H5, 312H5, 313H5, 316H5, 329H5, 330H5, 333H5, 464H5
- **Biology of Whole Organisms:** 325H5, 335H5, 338H5, 354H5, 356H5
- **Genetics and Evolution:** BIO341H5, 342H5, 407H5, 445H5, 443H5, 464H5
- **Cell, Molecular and Developmental Biology:** BIO314H5, 315H5, 370Y5, 371H5, 372H5, 374H5, 375H5, 380H5, 407H5, 476H5, 477H5

- **Physiology and Behaviour:** BIO210Y5, 304H5, 310H5, 312H5, 318Y5, 328H5, 409H5, 410H5, 411H5, 434H5

*MAT134Y5 - Calculus for Life Sciences is highly recommended.

Up to 1.0 credit may be taken from the following biology-related courses: GGR227H5, 305H5, 307H5, 309H5, 311H5, 312H5; CHM347H5, 361H5, 362H5, 371H5; PHY332H5, 333H5; PSY290H5, 355H5, 357H5, 395H5, 397H5; ANT334H5, 336H5, 340H5.

Additional courses: BIO361H5, 481Y5

Notes:

1. Students wishing to emphasize cell biology, molecular biology, microbiology, physiology or genetics, should take CHM240Y5/ (241H5, 261H5)/ (242H5, 243H5) in second year. Such students should take MAT134Y5/ 135Y5/ 137Y5, a prerequisite, in their first year.
2. No substitute statistics course will be allowed for BIO360H5.
3. Students may take no more than 2.0 credits combined in ROP, Internship Program, or Individual Project / Thesis courses at the 300/400-level for credit toward their Biology program.
4. Students must consult with the Undergraduate Advisor before enrolling in any St. George course that they wish to use for credit toward any Biology program.

Major Program ERMAJ1004 Paleontology (Science)

First Year: BIO152H5, 153H5; (CHM110H5, 120H5)/ CHM140Y5; MAT132Y5/ 134Y5/ 135Y5/ 137Y5; ENV100Y5/ ERS120H5

Second Year: ERS201H5, 202H5, 203H5; GLG217H1

Third Year and Fourth Year: ERS325H5; BIO354H5, 356H5, 360H5; GLG360H1

Major Program ERMAJ1149 Biology for Health Sciences (Science)

This program focuses on areas of biological science that relate to the health of humans and will provide a strong foundation for students interested in pursuing a career in the health sciences.

Limited Enrolment – Enrolment in the Major Program is limited to students who have completed 4.0 credits (including BIO152H5 and BIO153H5) and who have achieved a CGPA of at least 2.5

8.0 credits are required including at least 2.0 at the 300/400 level.

1. BIO152H5, 153H5; (CHM110H5, 120H5)/ CHM140Y5; MAT134Y5*/135Y5/ 137Y5
2. BIO206H5, 207H5, 210Y5, 304H5, 310H5, 380H5, (BIO360H5/ STA220H5/ PSY201H5)
3. 1.0 credits from **one** of the following lists:

Cell, Molecular, and Biotechnology Stream: BIO200H5, 215H5, 314H5, 315H5, 370Y5, 372H5, 374H5, 375H5, 476H5, 477H5; JBC472H5

Neuroscience Stream: BIO215H5, 304H5, 315H5, 403H5, 409H5, 411H5, 434H5

Genes and Behaviour Stream: BIO215H5, 315H5, 318Y5, 341H5, 361H5, 407H5, 434H5, 442H5, 443H5

*MAT134Y5 - Calculus for Life Sciences is highly recommended.

NOTES:

1. Students should be aware of the distinct credit requirement for their degree (see section 8.6 - HBSc Degree Requirements for full details). Completion of this program with another non-specialist Biology program will not satisfy the min. 12.0 distinct credit requirement for a degree. Please choose programs and courses accordingly.

2. As part of your degree requirement the 'Biology for Health Sciences' Major would be academically complemented by a Major in Psychology, Anthropology, Exceptionality in Human Learning, Forensic Science, and Chemistry, as well as other disciplines such as the Major in Management. This major program would also be complemented by a Minor in Biomedical Communications (Science).

Major Program ERMAJ2364 Biology (Science)

Limited Enrolment – Enrolment in the Major program is limited to students who have completed 4.0 credits (including BIO152H5 and BIO153H5) and who have achieved a CGPA of at least 2.0.

7.0 credits are required including at least 2.0 at the 300/400 level.

1. (CHM110H5, 120H5)/ CHM140Y5; MAT134Y5*/ 135Y5/ 137Y5
2. BIO152H5, 153H5, 204H5, 205H5, 206H5, 207H5
3. 2.0 in Biology from the 300 or 400 level.

*MAT134Y5 - Calculus for Life Sciences is highly recommended.

Notes:

1. Students should be aware of the distinct credit requirement for their degree (see section 8.6 - HBSc Degree Requirements for full details). Completion of this program with another non-specialist Biology program will not satisfy the min. 12.0 distinct credit requirement for a degree. Please choose programs and courses accordingly.
2. Although BIO215H5 is not required for a Biology Major, it is a prerequisite for many cell and molecular courses at the 300 level. Students should consider carefully which 300/400 level courses they intend to take.
3. PSL201Y1, offered on the St. George campus, will not meet the Physiology requirements for the Biology Major program and may not be substituted for BIO204H5.
4. Students may take no more than 2.0 credits combined in ROP, Internship Program, or Individual Project / Thesis courses at the 300/400-level for credit toward their Biology program.
5. Students must consult with the Undergraduate Advisor before enrolling in any St. George course that they wish to use for credit toward any Biology program.

Minor Program ERMIN2364 Biology (Science)

Program requirements:

1. BIO152H5, 153H5
2. two courses from (BIO204H5 or 210Y5), 205H5, 206H5, 207H5
3. 2.0 additional Biology credits, at least 1.0 at the 300/400 level.

Note: Three of the five courses in requirement 2 (above) require CHM140Y5 as a pre-requisite.

IMPORTANT: Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

BIO152H5 Introduction to Evolution and Evolutionary Genetics (SCI)

The scientific method and the modern theory of evolution as an introduction to biology. The principles of evolution, transmission and evolutionary genetics are developed in lectures and laboratories. [24L, 15P, 12T]

Prerequisite: Minimum 70% in Grade 12U Biology

Note: Although 12U CHM and MAT are not prerequisites for BIO152H5, students intending to pursue a major or any specialist program in Biology *must note* that CHM140Y5 and MAT132Y5/ 134Y5/ 135Y5/ 137Y5 are requirements for these programs.

BIO153H5 Diversity of Organisms (SCI)

The consequences of Darwinian evolution: adaptations of organisms as a product of the main evolutionary mechanism - natural selection. The roles of natural selection and other mechanisms in the diversification of life are reviewed, along with the diversity of structures and life cycles in bacteria, protists, animals, plants and fungi. [24L, 18P]

Prerequisite: BIO152H5

BIO200H5 Introduction to Pharmacology: Pharmacokinetic Principles (SCI)

Topics include absorption, distribution, biotransformation, elimination, calculation of dosages, variability in drug response and adverse drug reactions. [36L, 12T]

Exclusion: PCL201H1, JBC201H5

Corequisite: (Recommended): BIO215H5

Recommended Preparation: BIO206H5, CHM211H5, CHM221H5, CHM242H5

BIO201H5 The Biology Behind the News (SCI)

News stories are used to explore areas of biology, to learn about the process of science, and to find and assess the validity of information. The topics for the course modules will change yearly because the course is designed to give students the tools to explore the biology behind the news, not to teach a comprehensive survey of biological facts. Reading, writing, and research skills are emphasized.

This is a biology course for students in the Humanities and Social Sciences as well as other non-Biology Sciences. [36L]

Exclusion: BIO152H5, BIO153H5

BIO204H5 Introduction to Physiology (SCI)

How animals and plants work. Follows food from ingestion through energy production to the work of the living system and finally excretion of waste. Topics covered include elementary biochemistry, nutrition, digestion, translocation and circulation, respiration, photosynthesis, hormones, muscles and nerves. [24L, 18P]

Prerequisite: (CHM140Y5/ CHM110H5, 120H5); BIO152H5, 153H5

BIO205H5 Ecology (SCI)

An introduction to the scientific study of ecology, emphasizing the structure and dynamics of populations, communities and ecosystems. Topics include population growth and regulation, competition, predation, biodiversity, succession, and nutrient cycling. Classic models and studies will be supplemented with both plant and animal examples. [24L, 18T]

Prerequisite: (BIO152H5, 153H5)/ (ENV100Y5 for students in Environmental Programs)

BIO206H5 Introductory Cell and Molecular Biology (SCI)

An introduction to the molecular biology of the cell with an emphasis on similarities and differences between prokaryotic and eukaryotic cells. Topics include the structure and function of: macromolecules, membranes, ribosomes, nuclei, intracellular organelles, etc. Other topics include: the central dogma of molecular biology (replication, transcription and translation), protein targeting, organization of the genome, gene regulation and regulation of the cell cycle. Tutorials will emphasize and consolidate concepts from lecture and text through individual and group assignments. [36L, 18T]

Exclusion: BIO240H1, 241H1, 250Y1

Prerequisite: CHM140Y5/ (CHM110H5, 120H5) or CHM138H1

BIO207H5 Introductory Genetics (SCI)

The principles of Mendelian inheritance and modern genetics are illustrated using examples from medical research, evolutionary biology, agriculture and conservation biology. Topics covered include: chromosome theory of inheritance, basic eukaryotic chromosome mapping, gene and chromosome mutation, the lac system, the extranuclear genome, population and quantitative genetics. In tutorials, students will work through problem sets related to lecture material as well as probability and statistical analysis. [24L, 18T]

Exclusion: BIO203H5, 260H1; HMB265H1

Prerequisite: BIO152H5, 206H5

Corequisite: BIO153H5

BIO208H5 Communication in Biology (SCI)

A course designed to address the fundamental skills needed for comprehension and effective communication in the biological sciences. The focus is on critical analysis of texts (primary literature, review papers, textbooks), interpretation and presentation of data; information gathering and writing skills (lab reports, critical essays) and oral presentations. Specific examples will be drawn from a variety of current research topics in biology. Tutorials are mandatory. [12L, 24T]

Prerequisite: The course is open to all students enrolled in a program in the Life Sciences.

BIO210Y5 Fundamentals of Human Anatomy and Physiology (SCI)

The design of the human body. Topics include locomotory and other major organ systems, integrating structure and function. A comparative approach is taken, placing the design of the human body in an evolutionary context. [48L, 24T]

Exclusion: BIO210H5

Prerequisite: BIO152H5, 153H5

BIO211H5 Dinosaurs and the History of Life (SCI)

This course provides a survey of major events in the evolution of life, and includes overviews of science as a process, plate tectonics, climate, and evolution. Special focus will be on major events including origin of life and Cambrian explosion, plant and animal radiations onto land, Mesozoic evolution of dinosaurs, Cenozoic diversification of mammals, and human-induced climate change. Course consists of two lectures and one online tutorial per week.

This is a biology course for students in the Humanities and Social Sciences as well as other non-Biology Sciences. [24L, 12T]

Exclusion: BIO152H5, BIO153H5

BIO215H5 Laboratory in Molecular Biology and Genetics (SCI)

Students perform some modern molecular biology techniques including: DNA restriction analysis, transformation, plasmid isolation and characterization, PCR and DNA finger-printing. Additional labs in classical genetics include: Mendelian genetics, monohybrid and dihybrid crosses in *Drosophila melanogaster*, sex linkage, chromosome mapping and tetrad analysis. A 2-hour lecture each week provides an introduction and theoretical basis for each lab. [24L, 36P]

Exclusion: BIO240H1, 241H1, 250Y1

Prerequisite: BIO206H5

Corequisite: BIO207H5

BIO299Y5 Research Opportunity Program (SCI)

This program provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

BIO304H5 Integrative Animal Physiology I (SCI)

Principles of cell physiology, and the physiology of neurons, the sensory nervous system, and muscle. [36L]

Prerequisite: BIO204H5/ BIO210Y5

NOTE: BIO210H5 (half-course) is not an acceptable pre-requisite for this course.

BIO310H5 Integrative Animal Physiology II (SCI)

Principles of cardiovascular, renal, respiratory and digestive physiology of animals and their control by the neural and endocrine systems. [36L]

Prerequisite: BIO304H5

BIO311H5 Landscape Ecology (SCI)

Landscape ecology asks how spatial patterns originate and how they affect ecological processes like forest dynamics, nutrient cycling, species interactions, and the distribution and population dynamics of plants and animals. Lectures and computer labs introduce students to concepts and methods of landscape ecology and their application to current issues of land-use management and global change. The students will learn to apply GIS, spatial statistics, landscape metrics, and modelling to address problems in conservation, biodiversity, and ecosystem management. [24L, 24P]

Exclusion: GGR311H5

Prerequisite: BIO205H5 and P.I.

Corequisite: BIO360H5/ STA220H5

Students interested in this course will need to meet with the course instructor before being approved and permitted to enroll.

BIO312H5 Plant Physiology (SCI)

This course will focus on the principal physiological processes in plants and their response to environmental factors and global change. By addressing factors involved in global change, including rising atmospheric CO₂, alterations of the global nitrogen cycle and global climate warming, and examining their effects on photosynthesis and plant metabolism, the course will provide the basis to understand the implications of global change factors to plants, ecosystems and their impact on carbon sources and sinks in the modern biosphere. [36L, 15P]

Prerequisite: BIO204H5

BIO313H5 Field Methods and Quantitative Analyses in Ecology (SCI)

This course will provide Biology Majors and Specialists particularly interested in ecology with integrated, practical exposure to field and laboratory research methods on plant, animal, and microbial communities including study design, data collection, statistical analysis, and interpretation of results. [36P, 24T]

Prerequisite: BIO205H5

Corequisite: BIO360H5

BIO314H5 Laboratory in Cell and Molecular Biology (SCI)

Students are introduced to commonly employed techniques in cell biology such as cellular fractionation, polyacrylamide gel electrophoresis, western blotting, and immunolocalization. Students will also perform some advanced molecular biology techniques including the cloning and transformation of genes, DNA sequencing and the expression of proteins in bacterial and/or model systems. Each week, a two-hour lecture provides an introduction and theoretical basis for the lab. [24L, 48P]

Prerequisite: BIO215H5

BIO315H5 Human Cell Biology (SCI)

This course uses the information learned in prerequisite courses to cover advanced details in specific areas. The course will also introduce students to many exciting new topics in the structure and function of normal and diseased cells. Areas of focus include cell adhesion, intercellular communication, signal transduction, the cytoskeleton, chemotaxis, motor proteins, receptor mediated endocytosis and intracellular trafficking with an eye towards understanding their underlying roles in the disease process. Throughout the course, students will learn about the underlying approaches, methods and experimentation used by biomedical researchers including polyacrylamide gel electrophoresis, western blotting, immunolocalization, pharmacological intervention and various means of localizing proteins within cells. [36L]

Prerequisite: BIO206H5, 207H5, 215H5

BIO318Y5 Animal Behaviour (SCI)

This course will cover the adaptive (evolved) behaviours of organisms that result from interactions with the biological environment. We ask why animals behave in a particular way, i.e. how does their behaviour enhance success in survival or reproduction? Examples involve adaptive strategies in competing with rivals, choosing mates, and avoiding parasites. We also ask how adaptive behaviour is controlled; what are the genetic, developmental, and physiological mechanisms underlying behaviour? Assignments involve observing and analyzing (suggesting alternative explanations/ hypotheses) for behaviour, followed by a use of these skills to critique a published scientific paper. [48L, 72P]

Exclusion: BIO328H5

Prerequisite: BIO152H5, 153H5

BIO325H5 Functional Morphology of Animals (SCI)

A study of the anatomy of vertebrate and invertebrate animals at the body and organ levels of organization, emphasizing the adaptive meaning of structure. Content includes the body plans of animals, recognition of the parts of their organ systems, the comparative anatomy of the major phyla, biomechanical aspects of locomotion. [24L, 36P]

Prerequisite: BIO152H5, 153H5

Recommended Preparation: BIO204H5

BIO328H5 Lectures in Animal Behaviour (SCI)

This course will cover the adaptive (evolved) behaviours of organisms that result from interactions with the biological environment. We ask why animals behave in a particular way, i.e. how does their behaviour enhance success in survival or reproduction? Examples involve adaptive strategies in competing with rivals, choosing mates, and avoiding parasites. We also ask how adaptive behaviour is controlled; what are the genetic, developmental, and physiological mechanisms underlying behaviour? Assignments involve observing and analyzing (suggesting alternative explanations/ hypotheses) for behaviour, followed by a use of these skills to critique a published scientific paper. **No laboratory or field work is included.** [48L]

Exclusion: BIO318Y5

Prerequisite: BIO152H5, 153H5

This is a half-credit (0.5) course that is offered over the full academic year.

BIO329H5 Mammalian Biology (SCI)

This course covers the adaptive radiation and diversity of mammals, major extant mammal lineages and their distinctive physiological, morphological, behavioural and ecological characteristics. Participation in the course requires one overnight field trip to live-trap and observe mammals at the Koffler Scientific Reserve at Joker's Hill and one trip to the Toronto Zoo. [24L, 36P]

Exclusion: EEB388H1, 389H1 (formerly ZOO388H1, 389H1)

Prerequisite: BIO204H5, 205H5

BIO330H5 Plant Ecology (SCI)

A survey of the population and community ecology of plants. Topics include resource acquisition, growth and reproduction, mutualisms, competition, defence, invasions, disturbance, population dynamics, and community structure. Interactions with other plants, diseases, and animals particularly are emphasized. [24L, 12T]

Prerequisite: BIO204H5, 205H5

BIO333H5 Freshwater Ecology (SCI)

A functional analysis of freshwater ecosystems, with emphasis on lakes. Lectures cover water chemistry; the physical structure of lakes; the different ways that algae, zooplankton, benthic invertebrates, and fish have evolved to succeed in these habitats and interact with one another; and the impact of man on freshwater systems. Students must be available to participate in a mandatory weekend field trip to a lake on one of two weekends in late September or early October. Students not available for one of those weekends should not register for this course. [24L, 18P, 5T]

Exclusion: BIO332Y5, 337H5

Prerequisite: CHM140Y5

Corequisite: BIO205H5

Offered in alternate years.

BIO335H5 Mycology (SCI)

A study of the biology of fungi with emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory sessions include the collection, culture, and identification of a wide variety of fungi. In addition, several experiments illustrating important aspects of fungal physiology and development are performed in the laboratory. [24L, 36P]

Prerequisite: (BIO152H5, 153H5)/any 200 level course in BIO.

BIO338H5 Forensic Entomology (SCI)

A survey of the Class Insecta, emphasizing the functional morphology, physiology, behaviour and evolution of this highly successful group of animals. Laboratories focus on gaining proficiency in recognizing insect orders, families and genera. Students will carry out a field study of the changes in insect faunas that occur during decomposition of carrion and write a term paper based upon their observations. Two insect collections are required: a general collection that illustrates the diversity of insects found in a region and a collection of species of forensic importance that are attracted to carrion. [24L, 36P]

Exclusion: BIO334H5

Prerequisite: (BIO152H5, 153H5)

BIO339H5 Plant Identification and Systematics (SCI)

Lectures provide an introduction to principles and underlying philosophy of plant classification, phylogenetic reconstructions, flowering plant phylogeny, pollination, breeding systems, and speciation in plants. Laboratories focus on gaining proficiency in recognizing important plant families by sight and identifying unknown plants by using keys and published Floras. One half-day field trip is required. [24L, 36P]

Prerequisite: 1.0 credit from BIO205H5, 206H5, 207H5, 215H5, or P.I.

Offered in alternate years.

BIO341H5 Advanced Genetics (SCI)

The following topics are covered at an advanced level: extensions to Mendelian genetics, linkage and advanced mapping analyses, mutation, extrachromosomal inheritance, quantitative genetics, population and evolutionary genetics and genetics of behaviour. [24L, 12T]

Prerequisite: BIO206H5, 207H5, 215H5

BIO342H5 Evolutionary Biology (SCI)

An introduction to the concepts and importance of evolutionary biology. The course will focus on how genetic variation arises and is maintained, mechanisms of evolutionary change and how these mechanisms lead to adaptation, sexual selection, speciation and co-evolution. Throughout the course we will consider how fossils, experiments, genetics and molecular systematics can be used to understand evolution.

Prerequisite: BIO207H5

Recommended Preparation: BIO360H5/ STA220H5/ PSY201H5 (strongly recommended)

BIO354H5 Vertebrate Form and Function (SCI)

The design and adaptive consequences of vertebrate structure. Mechanisms of locomotion, digestion, gas exchange, circulation and sensory perception are compared at the organ level. Students conduct individual laboratory dissections on selected vertebrates. [24L, 36P]

Prerequisite: (BIO152H5, 153H5), 210Y5

BIO356H5 Major Features of Vertebrate Evolution (SCI)

The evolution of the vertebrates as evidenced by the fossil record. The origin and adaptive radiation of major groups including amphibians and reptiles is emphasized. Principles and knowledge will be demonstrated through written assignments and essays. [36L]

Corequisite: BIO210Y5

Recommended Preparation: BIO360H5/ STA220H5/ PSY201H5

BIO360H5 Biometrics I (SCI)

An introduction to the basic principles and procedures of biological statistics. Topics include the nature of data, effective data presentation, the relationship of samples to populations, probability, sampling theory, descriptive statistics, estimation, comparison of samples, power testing, randomization techniques and analysis of frequencies. Students should combine this course with BIO361H5 for a complete introduction to Biometrics. [24L, 12T, 24P]

Exclusion: ECO220Y5; PSY201H5; SOC300Y5; STA218H5, 219H5, 220H5, 248H5, 257H5

BIO361H5 Biometrics II (SCI)

A sequel to BIO360H5 in which topics in biological statistics are presented at an advanced level. Regression, concepts of power, analyses of variance, analysis of covariance, non-parametric techniques, and computer-intensive approaches are included. [24L, 36T]

Exclusion: ECO220Y5; PSY202H5; SOC300Y5; STA221H5, 248H5, 257H5

Prerequisite: BIO360H5

BIO370Y5 Microbiology (SCI)

In-depth discussion of bacterial structure and ultrastructure; physiology and nutrition; growth and cultivation; nature of viruses (bacteriophage and a limited survey of animal viruses and their properties); microbial genetics; immunology; the role of micro-organisms in medicine, industry, agriculture and ecology. [48L, 72P]

Prerequisite: BIO206H5, 207H5, 215H5

BIO371H5 Microbiology Lectures (SCI)

In-depth discussion of bacterial structure and ultrastructure; physiology and nutrition; growth and cultivation; nature of viruses (bacteriophage and a limited survey of animal viruses and their properties); microbial genetics; immunology; the role of micro-organisms in medicine, industry, agriculture and ecology. [48L]

Exclusion: BIO370H5

Prerequisite: BIO206H5, 207H5

This is a half-credit (0.5) course that is offered over the full academic year.

BIO372H5 Molecular Biology (SCI)

The organization, storage and transmission of genetic information. Structural features of nucleic acids and genes. DNA replication and repair. Transcription mechanisms and regulation. The genetic code and protein synthesis. Introduction to mechanisms of recombination. Selected topics in biotechnology (mutagenesis, gene manipulation, PCR). [24L, 12T]

Exclusion: JBC372H5; CHM360Y5; JLM349H1; MGB311Y1

Prerequisite: BIO206H5; CHM242H5/ 243H5

Corequisite: BIO207H5, 215H5

Recommended Preparation: CHM361H5

BIO373H5 Microbial Ecology (SCI)

A lecture course on the interaction of microorganisms with other organisms and their environment. As the most abundant form of life, microorganisms have an enormous impact on the Earth. Subject areas include microbial evolution and biodiversity, metabolism and biogeochemical cycling, and how molecular biology has revolutionized our understanding of microbial life. [36L]

Prerequisite: BIO205H5, 206H5

BIO374H5 Biotechnology and Society (SCI)

This course provides an overview of methods and applications of biotechnology and their relevance to society. The course covers the gambit of biotechnology applications and delves into the pros and cons of each technology and the perceived risks to society in each case. Topics may include microbial biotechnology, plant biotechnology, animal biotechnology, forensic biotechnology, environmental biotechnology, aquatic biotechnology and medical biotechnology. It may also discuss the application of bioinformatics/genomics in biotechnology. [36L]

Prerequisite: BIO215H5

BIO375H5 Introductory Medical Biotechnology (SCI)

This course reviews a full range of discoveries from the life sciences, which includes both drugs and medical devices. The course reviews a range of biotechnology products with respect to: regulatory path for experiments to support for new biotechnologies; key science concepts behind the technology and the business context. [36L]

Prerequisite: Completion of 2.0 credits in Biology, plus BIO360H5/ STA220H5/ PSY201H5

BIO380H5 Human Development (SCI)

Reproduction and embryonic development in humans are emphasized. After a general review of human reproduction, the formation of sperm and eggs is analyzed, followed by an in-depth analysis of fertilization in vivo and in vitro. Early embryonic developmental processes are studied with a view to how the embryo becomes organized so that all of the tissues and organs of the adult body form in the right places at the proper times. The course ends with an in-depth analysis of limb development and organ regeneration. The relevance of the material to such topics as human infertility, contraception, cloning, biotechnology and disease is continually addressed. [36L]

Prerequisite: BIO206H5, 207H5

Recommended Preparation: BIO204H5/ 315H5

BIO399Y5 Research Opportunity Program (SCI)

This course provides third year undergraduate students (after completion of at least 9.5 but not more than 14 credits), who have developed some knowledge of Biology and its research methods, another opportunity to work in the research project of a professor in return for course credit. Students enrolled have the opportunity to become involved in original research, enhance their research skills and share in the excitement of acquiring new knowledge and in the discovery process of science. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

BIO400Y5 Biology Internship (SCI)

Through a part-time, unpaid, 200-hour work placement, fourth year students apply biology content and skills. Placements are made throughout the GTA in both the private (e.g. pharmaceutical or biotech companies) or public (e.g. Peel Region Medical Office, hospitals, Great Lakes Laboratory) sector. Monthly class meetings plus year-end report and presentation are required. Students in a biology specialist program are given priority. Updated application information will be on-line at www.utm.utoronto.ca/intern by February 1st of each year. Please see the Internship Office (DV 3201D) for more information.

Exclusion: ENV400Y5; BIO481Y5; JCB487Y5

Prerequisite: Fourth year standing in Biology Specialist or Major Program, 3.0 CGPA and P.I.

BIO403H5 Developmental Neurobiology (SCI)

A lecture/seminar course on the development of the nervous system with emphasis on genetic, cellular and molecular mechanisms. Examples will be drawn from well-studied animal models including *Drosophila*, frog and mouse. Topics will include differentiation of nerve cells, pathfinding, target selection, synaptogenesis, and synaptic plasticity. [24L, 12S]

Prerequisite: BIO304H5, BIO315H5

BIO406H5 Current Topics in Ecology and Evolution (SCI)

A combination of lectures and tutorials. The course will emphasize group discussion and critiques of current publications in the field. The theme of the course is expected to be topical and current and to vary from year to year, with the interests of the faculty member(s) teaching the course. Course themes are expected to range from structure and function of whole ecosystems (e.g. the collapse of fisheries) to evolutionary ecology (e.g. the evolution of emergent diseases). [12L, 24T]

Prerequisite: BIO205H5, 360H5

Recommended Preparation: BIO313H5

BIO407H5 Behaviour Genetics (SCI)

State of the art techniques used in the genetic, molecular, statistical and neurobiological analysis of behaviour are discussed. We focus on behaviour-genetic analysis of olfaction, foraging, rhythms and sex in three model systems (the worm *C. elegans*, the fruit fly *D. melanogaster* and the mouse). We discuss how information from these model organisms can be used to shed light on behaviour genetics of non-model organisms including humans. [24L, 12P]

Prerequisite: BIO207H5, 360H5

Corequisite: BIO318Y5/ PSY252H5

Recommended Preparation: BIO206H5, 215H5, 304H5

BIO409H5 Laboratory in Physiology (SCI)

Experiments are designed to familiarize students with techniques and experimental design commonly used in the study of physiology. A one-hour lecture each week provides an experimental and theoretical basis for each laboratory. Topics include pharmacology, enzyme kinetics, neurophysiology, respiration, and metabolic rate. [12L, 48P]

Exclusion: BIO309H5

Prerequisite: BIO304H5, 204H5/ 310H5

BIO410H5 Insect Physiology (SCI)

A lecture course with a seminar component designed to introduce the student to the physiological characteristics of insects. The physiology of the integument, metamorphosis, reproduction, diapause and the physiological basis of insect control are discussed in detail. [24L, 24S]

Prerequisite: BIO204H5

Recommended Preparation: BIO334H5

BIO411H5 Topics in Molecular and Cellular Physiology (SCI)

An advanced, student-led seminar course on contemporary subjects in cell physiology. Students will examine, review, criticize and present primary literature on fundamental topics such as ion transport, water transport, membrane excitability, intracellular transport, and secretion applied to a variety of physiological systems. Emphasis will be placed on understanding how diverse cell types carry out specific physiological functions. [36S]

Prerequisite: BIO310H5

Recommended Preparation: BIO314H5, 315H5

Offered in alternate years.

BIO416H5 Field Course in Ecology (SCI)

Students may choose from a variety of field courses offered through a cooperative arrangement among ecologists at ten Ontario universities. Courses involve a two-week period at a field site in early May or late August, and require a major paper or project report be submitted within six weeks of course completion. A fee for room and board is usually charged over and above tuition. Lists of courses available are posted at www.eeb.utoronto.ca. Please check this list early for balloting dates.

BIO434H5 Sensory Biology (SCI)

(Formerly Advanced Topics in Whole Organism Neurobiology) An integrated study of the biology of sensory systems in a wide range of animals. Using the traditional categories of sensory systems (e.g., vision, hearing), the course will examine how these systems both enhance and limit the natural histories of animals. The neurophysiological mechanisms of each sensory system will be placed into a natural context by examining the comparative ecology and evolution of selected organisms that use those mechanisms. [24L, 24S]

Prerequisite: BIO304H5/ 318Y5

BIO436H5 Plant Interactions (SCI)

An advanced lecture course on interactions of plants with herbivores, pathogens, and mutualists. The focus of this course will be on the ecology of these interactions and their evolutionary consequences. Topics will include vertebrate and invertebrate herbivory, pollination, seed dispersal, mycorrhizae, endophytes, and diseases. This course will include one compulsory weekend field trip and one or more optional trips. [24L, 6T]

Prerequisite: Completion of at least 12 credits, including BIO205H5.

Recommended Preparation: BIO330H5, 335H5

BIO443H5 Phylogenetic Principles (SCI)

Lectures will provide an in-depth coverage of modern methods of phylogenetic reconstruction including molecular systematics based on DNA sequences. The principles and philosophy of classification will be taught with an emphasis on 'tree-thinking', one of the most important conceptual advances in evolutionary biology. Tutorials will focus on recent developments in the study of evolutionary patterns while gaining proficiency in reading, presenting, and critiquing scientific papers. [36L, 12S]

Prerequisite: BIO206H5, 207H5

Recommended Preparation: BIO215H5, 314H5

Offered in alternate years.

BIO445H5 Evolutionary Ecology (SCI)

This course focuses on the interface between ecology and evolution. Research has shown that biotic and abiotic ecological factors drive evolution, and in turn, evolution feeds back to influence the ecological processes and patterns of populations and communities. Throughout this course we will focus on this dynamic interplay over short and long time spans in animals, plants, fungi, and other microbes. While covering the concepts and questions of this field we will also consider the theory, methods, and statistics used to bring new insights to evolutionary ecology. Students will be expected to participate in discussions, present methods and concepts to the class, and complete written assignments. [48L]

Exclusion: EEB324H1

Prerequisite: BIO205H5, 207H5, 342H5

BIO464H5 Conservation and Biodiversity (SCI)

Biodiversity is the sum of species diversity, and also the interaction of species at population, at ecosystem and at migration-route levels; it is one barometer of environmental health. Conservation biology applies ecological and genetic principles to the problem of declining biodiversity. We discuss the species concept, quantification and cost-benefit analysis of biodiversity and extinction, causes, consequence, diagnosis and treatment of population declines, as well as the effects of different land uses on biodiversity and reserve design. A key part of this course is a case study by each student. [36L]

Prerequisite: (BIO152H5, 153H5), 205H5 and P.I.

Note: Students from a wide range of programs are encouraged to enrol.

JBC472H5 Seminars in Biotechnology (SCI)

An introduction to current research in biochemistry and biotechnology, through seminars and literature reviews, presented by invited speakers and students. Subject areas include biotechnology, biomaterials, enzyme engineering, biosensors, drug delivery, spectrometry, separations chemistry, and bioinformatics. (42 contact hours over two semesters).

Prerequisite: BIO372H5; CHM361H5, 362H5/ BIO315H5

BIO476H5 Molecular Basis of Disease (SCI)

This advanced course explores the primary concepts of pathogenesis and investigates current research in the field of molecular pathology. Specific disease topics include inflammation, injury and repair, neoplasia, immune disorders, infectious disease, cardiovascular disease, and toxicology. Analysis of the primary literature is a key component of this course. [36L]

Prerequisite: BIO304H5, 315H5

Recommended Preparation: BIO310H5, 341H5, 372H5

BIO477H5 Molecular Biology of Gene Expression and Cancer (SCI)

The first part of the course examines how genes are regulated in eukaryotic cells. It also explores the field of functional genomics and in particular examines how gene expression and genomes can be studied on a genome-wide basis using DNA microarrays and high throughput sequencing. The second part of the course examines the molecular and genetic basis of cancer including the role of oncogenes, tumor suppressor genes and cell cycle regulating proteins in the development of this disease. It also looks at cancer from a functional genomics perspective. Lectures and seminars involve presentation and discussion of recently published research articles. [36L, 12S]

Prerequisite: BIO370Y5/ BIO372H5, P.I.

Recommended Preparation: BIO314H5, 315H5

BIO481Y5 Biology Research Project (SCI)

Students in this course will conduct a research project under the supervision of a faculty member in the Department of Biology. The course is open to third and fourth year students. Students learn how to design, carry out, and evaluate the results of a research project. Students are required to write and present a research proposal, write a term paper, and present a seminar on the results of their research project. All students interested in a research project must approach potential faculty supervisors several months in advance of the beginning of term. Students must obtain permission from the faculty member whom they would like to serve as their project supervisor. Students must meet with the course coordinator three to six times per year.

Exclusion: BIO400Y5, JCB487Y5

Prerequisite: P.I.

CBJ481Y5 Independent Project in Bioinformatics (SCI)

This course is intended for students in the Bioinformatics Specialist degree program. Possible areas in which the research may take place include: functional genomics (e.g., microarray and proteomic data analysis); systems biology; and the development of novel analytical methods for large datasets. Students will be required to produce a written document of their project and present it orally. In order to enrol in this course, students must obtain, several months in advance, approval from a faculty member(s) who will serve as supervisor(s).

Prerequisite: P.I.

Corequisite: BIO477H5

Recommended Preparation: CSC343H5, BIO372H5

JCB487Y5 Advanced Interdisciplinary Research Laboratory (SCI)

Students will work together as members of a multidisciplinary team toward the completion of an interdisciplinary experimental or theoretical research project. Teams will be comprised of at least three students, with representation from at least three areas of specialization, namely, astronomy, biology, chemistry, earth sciences or physics. The interdisciplinary projects will be based on current trends in research and student teams will work to complete their projects with guidance provided by a team of faculty advisors from the Biology Department and the Department of Chemical and Physical Sciences. In addition to the rigorous development of research skills, the course will also provide students with practical experience in project management and training in effective project management techniques. [240P]

Exclusion: BIO481Y5, CBJ481Y5, CHM489Y5, CHM499Y1, PHY489Y5

Prerequisite: 2.0 credits 300 level from BIO/CHM/JBC/JCP/PHY and 1.0 credit from BIO215H5, 314H5, CHM371H5, 391H5, 393H5, PHY324H5. The course is normally taken in the student's fourth year. In order to enroll in this course, students must obtain approval from the faculty member(s) who will serve as the supervisor(s) several months in advance of the start of the course.

Evaluation: As these are team-based projects, identical grades will be awarded to all members of a given team. This is a balloted course.

Biomedical Communications (HBSc)**Professors**

M. Corrin, B.A., B.Sc., M.Sc.BMC
 M. Dryer, B.A., M.Sc., M.Sc.BMC
 J. Jenkinson, B.A., M.Sc.BMC, Ph.D. (C.)
 L. Lax, B.A., B.Sc.AAM, M.Ed., Ph.D.(C.)
 D. Mazierski, B.Sc.AAM, M.Sc.
 B. Sutherland, B.A., M.Ed.
 S. Wall, AOCAD, B.A., M.A., M.Sc.BMC, Ph.D.
 L. Wilson-Pauwels, AOCA, B.Sc.AAM, M.Ed., Ed.D.
 N. Woolridge, B.F.A., B.Sc.BMC, M.Sc.

Undergraduate Advisor

Yen Du
 Room 3057, William G. Davis Bldg.
 905-828-3999

The minor in Biomedical Communications is for students interested in interdisciplinary studies in health, science and visual communication. Enrolment and completion of the program requires concurrent enrolment in a science major plus an additional minor, or a science specialist program.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO Biology (page 76)
 HSC Biomedical Communications (page 85)

Minor Program ERMIN0840 Biomedical Communications (Science)**4.0 credits are required including:**

- BIO152H5, 153H5
- HSC200H5
- 2.5 credits from HSC300H5, 301H5, 302H5, 401H5, 402H5, 403H5, 404H5, 405H5, 406H5

Limited Enrolment –

1. Enrolment in this program requires concurrent enrolment in a science major + additional minor or a specialist program.
2. A minimum CGPA of 2.20

List of Courses

HSC200H5 Imaging Technologies for Scientific Visual Communication (SCI)

Introduction to image and media technologies central to modern digital communication, with emphasis on their use in science communication and education. Topics include the appropriate use of visual media, design strategies, design for legibility and scientific image conventions. Tutorial sessions will introduce vector and bitmap image creation and manipulation tools. [12L, 24T]

Exclusion: HSC302H5

Prerequisite: Completion of 4.0 credits.

HSC300H5 Written Communication for Health Care (SCI)

This course presents the principles of communicating effective audience-specific health information in both print and electronic media. Students will learn to analyze the form, content, language, and imagery of written health communication; to locate the published research behind health reports in the popular media; and to communicate clear, accurate health information to medical professionals, general audiences, and readers with low literacy skills. [12L, 24S]

Prerequisite: BIO152H5

HSC301H5 Data and Information Visualization (SCI)

This course presents the principles of information design, including the clear, concise and truthful presentation of data in the form of tables, graphs, maps, academic posters, presentations, and user interfaces. Topics will include the accurate representation of numerical and statistical data, information hierarchy, and appropriate use of design elements for clarity and legibility. Practical application of course material will require students to develop and integrate information graphics into a presentation format for peer review and critique. [24L, 12P]

Prerequisite: HSC200H5

HSC302H5 Biocommunication Visualization (SCI)

This course covers analysis and development of visual media for medical or scientific topics. 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 or health promotion. Classes consist of lectures with computer lab explorations. [24L, 12P]

Exclusion: HMB304H1

Prerequisite: HSC200H5

HSC401H5 Health and Science Communication Design (SCI)

This course presents the principles of health and science communication and examines the characteristics of effective audience-specific media design. Included are issues of learning context, target audience analysis, and effective information design in the development of tools that communicate concepts to the general public. Students will analyze existing media, conduct an information needs assessment, and design an *interactive learning tool* on a current health or science-related topic. [12L, 12S, 12P]

Prerequisite: HSC200H5

HSC402H5 E-Learning Environments in Health Care (SCI)

This course focuses on the design, development and evaluation of E-Learning environments for health sciences education or health care practice. An overview of learning management systems, knowledge object design, repositories, collaborative knowledge building environments, communication technologies, surveys, simulations, tutorials, and games will be presented. Individual and group work will explore theory-based design and best practice guidelines for the creation of multimedia/multi modal E-Learning communities. [12L, 24P]

Prerequisite: CCT260H5/ BIO152H5/ ANT101H5

HSC403H5 Visualization of Forensic Demonstrative Evidence (SCI)

This course examines the visual representation of forensic demonstrative evidence in Canadian courtrooms. A case-based approach simulates professional practice. Forensic anthropology, biology and visual communication theory are explored in new media for presentation. Visual problem solving skills are developed through collaboration. In class, presentations and practica are combined with critical analysis of visualizations. [12L, 24P]

Prerequisite: Completion of 10.0 credits, including one of FSC239Y5/ BIO210H5/ 210Y5/ ANT205H5/ ANT306H5

HSC404H5 Advanced Visual Media for Anthropological Data (SCI)

This course examines the visual representation of physical evidence in archaeology, and physical/biological anthropology. Photography, traditional illustration, and digital rendering are used to produce scientific graphics in support of published research. Through practical and analytical exercises students will gain an understanding of the media and techniques used to visually represent data. [24S, 12P]

Prerequisite: ANT200Y5/ ANT203Y5/ BIO152H5

HSC405H5 Digital Forensic Facial Reconstruction (SCI)

This course examines the technical, anatomical, and sociological considerations involved in the three-dimensional digital forensic facial reconstruction. Human facial anatomy, traditional reconstruction techniques, and the use of 3D animation software are the core areas of study. Using this knowledge, students reconstruct the facial identity of an individual known only from cranial skeletal remains. [24S, 12P]

Prerequisite: 10.0 completed credits including ANT203Y5, 205H5/ BIO210H5

Recommended Preparation: ANT334H5

HSC406H5 Advanced Written Communication for Health Care (SCI)

This course builds on skills developed in HSC300H. Topics include: communication of epidemiological data; medical and science journalism; illness narratives; image-text integration, and graphic novels in healthcare. Students learn to think critically about health and science reporting, interpret complex or contentious evidence from the medical literature, and produce in-depth health documents in a range of formats. [12L, 24S]

Prerequisite: HSC300H5

Biomedical Physics (HBSc)

For information on Biomedical Physics, please refer to the Physics (HBSc) (Page 269) program.

Biotechnology (HBSc)

Offered through the Biology Department

Program Advisors

Professor Scott Prosser (Chemistry)
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Undergraduate Advisor

Yen Du
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Biotechnology has been practised by human society since the beginning of recorded history in such activities as baking bread, brewing alcoholic beverages, or breeding food crops or domestic animals. In modern society, biotechnology is the application of scientific knowledge associated with molecular biology, genomes and proteins for the enhancement or protection of organisms. The Biotechnology industry hopes to enhance the future potential of biotechnology with respect to drugs, agriculture, forest and environmental products. This specialist program in Biotechnology offers students a firm grounding in the science of biotechnology and a thorough understanding of the industry, and its social and ethical implications in a global framework. Faculty are drawn from the Biology and Chemistry departments, with cooperation from the Faculty of Management.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO	Biology (page 76)
CHM	Chemistry (page 92)
JBC	Biology (page 76)
MAT	Mathematics (page 256)
MGM	Management (page 248)

Specialist Program ERSPE1118 Biotechnology (Science)

Within an Honours degree, 15.0 credits are required, including at least 7.0 at the 300/400 level, of which 1.5 must be at the 400 level.

Limited Enrolment – Enrolment in this program is limited. Students who wish to enrol at the end of first year (4.0 credits) must obtain a grade of at least C (63%) in (CHM110H5, 120H5)/ CHM140Y5 and a cumulative grade point average of at least 2.50 to qualify. Students who do not meet these criteria after first year can apply to enter the Specialist at the end of second year (8.0 credits) with the following new requirements: a grade of at least 70% in CHM242H5 and a cumulative grade point average of at least 2.50.

First Year: BIO152H5, 153H5; (CHM110H5, 120H5)/ CHM140Y5; MAT134Y5*/135Y5/ 137Y5; MGM101H5**, 102H5**

Second Year: BIO200H5, 204H5, 206H5, 207H5, 215H5; CHM211H5, 242H5, 243H5

Third and Fourth Years:

1. BIO314H5, 315H5, 360H5, 370Y5, 372H5, 374H5; CHM311H5, 361H5; JBC472H5
2. 1.0 credit from: BIO304H5, 310H5, 312H5, 341H5, 375H5, 380H5, 409H5; CHM333H5 (note: CHM231H5 is prerequisite for this course), CHM341H5, 345H5, 347H5, 362H5, 371H5
3. 1.0 credit from CHM/BIO courses at the 400 level.

*MAT134Y5 - Calculus for Life Sciences is highly recommended.

**Please note that while MGM101H and 102H are listed as first-year courses, students cannot enrol in these courses until they are admitted into the Specialist Program and therefore will be taking these courses in their 2nd, 3rd or 4th years of study

NOTE: No substitute statistics course will be allowed for BIO360H5.

It is recommended that students in this program consider taking a research project or internship course in either Biology (BIO400Y5/ 481Y5) or Chemistry (CHM489Y5). Other 4th-year courses directly relevant to this program are BIO443H5, 477H5, CHM414H5 and CHM462H5.

Students may take no more than 2.0 credits combined in ROP, Internship Program, or Individual Project / Thesis courses at the 300/400-level for credit toward their Biology program.

Students must consult with the Undergraduate Advisor before enrolling in any St. George course that they wish to use for credit toward any Biology program.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

Canadian Studies (HBA)

Program Director
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Undergraduate Advisor
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Canadian Studies explores the Canadian nation, imagination, and experience from an interdisciplinary perspective. The courses offered as part of the Major and Minor programs present a wide-ranging and diverse view of Canada from both humanities and social science perspectives, including Anthropology, Communications, Drama, English, Economics, Environment, French, Geography, History, Political Science, and Sociology. The core courses in the program provide a strong foundation for students who then choose additional courses from a wide variety of electives that fit their own interests and academic goals. The program is flexible and introduces students to several academic disciplines, methods of inquiry, and theoretical approaches to the study of Canada. It provides an excellent foundation for graduate studies and allows students to fulfill the entrance requirements of the Faculty of Education. Students wishing to complete a Major or Minor in Canadian Studies should notify and register with the Program Director.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
ECO	Economics (page 143)
ENG	English (page 153)
FRC	French (page 184)
FRE	French (page 184)
FSC	Forensic Science (page 178)
GGR	Geography (page 196)
HIS	History (page 207)
ITA	Italian (page 230)
POL	Political Science (page 275)
SOC	Sociology (page 296)
WGS	Women and Gender Studies (page 319)

Major Program ERMAJ0728 Canadian Studies (Arts)

7.0 credits are required, fulfilling the following requirements:

1. HIS263Y5; POL214Y5; ENG252Y5/ ENG353Y5; FRC301H5; GGR202H5 and
2. 3.0 additional credits (at least 2.0 of which must be at the 300/400 level) in courses chosen from the list below or approved by the program advisor.

The following U of T Mississauga courses can be taken to complete the requirements for a Major in Canadian Studies.

Note: Some of the courses listed may have prerequisites and not all are offered every year.

Full Courses

- ANT241Y5 Aboriginal Peoples of North America
- ECO244Y5 Industrial Relations
- ECO323Y5 Canadian Economic History
- ENG354Y5 Canadian Poetry
- HIS326Y5 History of Women in Canada, 1600-2000
- ITA255Y5 The Italian Canadian Experience
- ITA256Y5 The Italian Canadian Experience
- POL250Y5 Environmental Politics in Canada
- POL316Y5 Contemporary Canadian Federalism
- POL336Y5 Ontario Politics
- POL353Y5 Canadian Public Policy: From the Golden Age to the Era of Globalization
- POL494Y5 Topics in Canadian Politics

Half Courses

- DRE364H5 Canadian Theatre
- ENG215H5 The Canadian Short Story
- ENG271H5 Diasporic Literatures of Toronto
- ENG274H5 Introduction to Native North American Literature
- ENG352H5 Canadian Drama
- ENG357H5 New Writing in Canada
- ENG424H5/ 425H5/ 426H5 Canadian and Indigenous North American Literature
- FRC303H5 Women of Quebec, New Brunswick and Manitoba
- FRE312H5 Quebec Novel II: The Quiet Revolution
- FRE316H5 From Land to Town: Quebec Culture and Literature from its Beginning to 1959
- FRE317H5 Quebec Theatre II: Contemporary Directions
- FRE319H5 From the Quiet Revolution to Postmodernism: The Evolution of Québec Literature 1960 to the Millennium
- FSC360H5 Evidence, Law and Forensic Science
- FRE374H5 Canadian French
- GGR202H5 Where in Canada?
- HIS261H5 A Thematic Introduction to Canadian History
- HIS311H5 Introduction to Canadian International Relations
- HIS313H5 Canadian Working-Class History to 1919
- HIS314H5 20th-Century Canadian Working-Class History

- HIS318H5 Canadian Environmental History: Contact to Conservation
- HIS319H5 Canadian Environmental History: Conservation to the Modern Environmental Movement
- HIS358H5 Canada Since World War Two
- HIS365H5 Old Ontario
- HIS367H5 Diasporic Canada
- HIS368H5 Canada in the First World War
- HIS369H5 Great Lakes and Aboriginal History
- HIS402H5 Topics in the History of French Canada
- HIS415H5 The Reform Tradition in Canada
- HIS416H5 Canada and the Second World War
- HIS452H5 The Great Depression in Canada
- HIS461H5 History of Upper Canada
- HIS487H5 Canadian Social History
- ITA362H5 The Italian Canadian and the Law
- ITA363H5 The Italian Canadian and the Law
- POL111H5 Canada in Comparative Perspective
- POL490H5 Topics in Canadian Politics
- SOC337H5 Canadian Social Trends
- SOC307H5 Crime and Delinquency
- WGS210H5 Women and Work in Contemporary Canada
- WGS335H5 Women, Migration and Diaspora

Minor Program ERMIN0728 Canadian Studies (Arts)

4.0 credits are required, fulfilling the following requirements:

1) 2.0 credits from the following list: HIS263Y5; POL214Y5; ENG252Y/ENG353Y; FRC301H5; GGR202H5 and 2) 2.0 additional credits (at least 1.0 of which must be at the 300/400 level) in courses chosen from the list above or approved by the program advisor.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

Chemistry (HBSc)

Professors Emeriti

M.K. Georges, B.Sc., Ph.D.
A.J. Poë, B.A., B.Sc., M.A., Ph.D., D.Sc., D.I.C., Sc.D.
J.K. Reed, B.A., M.Sc., Ph.D.
E.A. Robinson, B.Sc., Ph.D., D.Sc.
I.W.J. Still, B.Sc., Ph.D., D.Sc.

Professors

U.W. Fekl, M.Sc., Ph.D.
P.T. Gunning, B.Sc., Ph.D.
V. Kanelis, B.Sc., Ph.D.
U.J. Krull, B.Sc., M.Sc., Ph.D., FCIC
P.M. Macdonald, B.Sc., M.Sc., Ph.D.
D.R. McMillen, B.Sc., M.Sc., Ph.D.
P.A.E. Piunno, B.Sc., M.Sc., Ph.D.
J.C. Poë, A.R.C.S., M.Sc., D.I.C., FCIC
R.S. Prosser, B.Sc., M.Sc., Ph.D.
J.A. Shin, A.B., Ph.D.

Chair

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Chemistry has a vital role in modern science-based industry and in the improved material well-being and health of our society. It is being applied increasingly to the growth of our understanding of medicine, biology, materials science, geology, and many other branches of science. Chemistry also has a major role to play in solving our world-wide problems of energy conservation, environmental pollution, nuclear waste disposal and, through its important contributions to agriculture, even of famine. Many of our future advances will originate from the kind of interdisciplinary research in which chemists trained to solve problems from the molecular to the bulk level must be involved.

As an academic university-based discipline, Chemistry stands in the centre of the sciences and is recognized as a sound basis for the kind of imaginative and disciplined thinking that has application beyond science to many other occupations and endeavours. At U of T Mississauga, we offer a Chemistry Program that enables a student to complete a Specialist Degree in Chemistry over a four-year

period on the campus. A Major Program is also available for students who want a significant background in Chemistry. The Chemistry faculty are moving strongly towards a distinctive teaching and research specialization in the border regions between Chemistry and Biology and also offers a Specialist Program in Biological Chemistry. Our analytical chemistry has a strong focus in this direction as well and the Department supports Specialist and Major Programs in Environmental Analysis and a Specialist Program in Forensic Science-Chemistry.

The programs in Chemistry offered at U of T Mississauga provide a very suitable preparation for those who intend to prepare for professional programs such as medicine, enter the work force in industry, teach chemistry in high school, or continue into a graduate program. Students are urged to consult the faculty advisor for help in choosing the appropriate courses and programs.

It is very important to plan one's program in advance and to consult regularly (*at least once a year*) with a faculty advisor. It is particularly desirable to take specific courses in the year of study for which they are designed (e.g., CHM200 level courses in Year 2); serious timetable clashes are likely to arise if this advice is not followed. While some deviations from the Specialist/Major/Minor programs listed are possible, students should consult the program advisor before departing from the recommended programs.

Chemistry is available at U of T Mississauga as a teachable subject in the Concurrent Teacher Education Program.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO	Biology (page 76)
CHM	Chemistry (page 92)
JBC	Biology (page 76)
JCP	Chemistry (page 92)
MAT	Mathematics (page 256)
PHY	Physics (page 270)
SCI	Science (page 294)

Specialist Program ERSPE1995 Biological Chemistry (Science)

Within an Honours degree, 13.5 credits are required. This program is accredited by the Canadian Society for Chemistry.

Limited Enrolment – Enrolment in this program is restricted. Selection will be based on completion of 4.0 credits including CHM140Y5 (minimum grade of 65%)/(110H5, 120H5) (minimum grade of 65% in CHM120H5); MAT134Y5/ 135Y5/ 137Y5 (minimum grade of 65%); and a minimum CGPA of 2.5. Completion of BIO152H5 is recommended.

Year 1: BIO152H5; CHM140Y5/ (110H5,120H5); MAT134Y5/ 135Y5/ 137Y5; PHY135Y5/ (136H5,137H5)

Year 2: CHM211H5, 231H5, 242H5, 243H5; JCP221H5/ CHM221H5; BIO206H5, 207H5, 215H5; 0.5 MAT/CSC/STA credit

Year 3: CHM333H5, 341H5/ 345H5, 347H5, 361H5, 362H5, 371H5; BIO372H5

Year 4: CHM489Y5; 1.0 400 level CHM, JBC, JCP or BCH course

Notes:

1. Enrolment in CHM371H5 and certain BCH (St. George) courses is limited.
2. Additional 300/400-level CHM/JCP courses include CHM311H5, 331H5, 391H5, 393H5, 412H5, 414H5, 416H5, 442H5, 444H5, 462H5, 485H5 and JBC472H5 and JCP321H5, 322H5, 410H5, 421H5, 422H5, 463H5 at U of T Mississauga plus the 300/400 level CHM/BCH courses at St. George.
3. Students are strongly advised to consult the program advisor regarding their course of study.

Specialist Program ERSPE1376 Chemistry (Science)

Within an Honours degree, 13.0 credits are required. This program is accredited by the Canadian Society for Chemistry.

Limited Enrolment – Enrolment in this Program is restricted. Selection will be based on completion of 4.0 credits including CHM140Y5 (minimum grade of 65%)/(110H5,120H5) (minimum grade of 65% in CHM120H5); MAT134Y5/ 135Y5/ 137Y5 (minimum grade of 65%); and a minimum CGPA of 2.5.

Year 1: CHM140Y5/ (110H5,120H5); MAT134Y5/ 135Y5/ 137Y5; PHY135Y5/ (136H5,137H5)

Year 2: CHM211H5, 231H5, 242H5, 243H5; JCP221H5/ CHM221H5; MAT212H5/ 232H5

Year 3: CHM311H5, 331H5, 341H5/ 345H5, 361H5, 391H5, 393H5; JCP321H5

Year 4: CHM489Y5; 1.5 400 level CHM/JCP courses, 1.0 300/400 level CHM/JCP or other science course(s).

Notes:

1. Students who are in ETP@UTM may substitute (CHM485H5 + SCI499H5) in place of CHM489Y5.
2. Additional 300 level CHM/JCP courses available include CHM333H5, 347H5, 362H5; JCP322H5
3. Additional 400 level CHM/JCP courses include CHM412H5, 414H5, 416H5, 442H5, 444H5, 462H5, 485H5 and JCP410H5, 421H5, 422H5, 463H5 plus the selection of CHM400 level courses at St. George.

4. Students are strongly advised to consult the Program Advisor regarding the program of study.

5. MAT134Y5/ 135Y5/ 137Y5 prerequisite is required for most 200 level CHM courses.

Major Program ERMAJ1376 Chemistry (Science)

8.0 credits are required.

Limited Enrolment – Enrolment in the Chemistry Major Program is based on completion of 4.0 credits including CHM140Y5 (minimum grade of 60%)/(110H5,120H5) (minimum grade of 60% in CHM120H5) and MAT134Y5/ 135Y5/ 137Y5.

Year 1 : CHM140Y5/ (110H5,120H5); MAT134Y5/ 135Y5/ 137Y5

Year 2: CHM211H5, 231H5, 242H5, 243H5; JCP221H5/ CHM221H5

Years 3 & 4: CHM371H5/ 391H5/ 393H5; 3.0 additional 300/400 level CHM/JCP credits.

Notes:

1. MAT134Y5/ 135Y5/ 137Y5 prerequisite is required for most 200 level CHM/JCP courses.
2. For a balanced training in Chemistry, students should take CHM311H5, 331H5/ 333H5, 341H5/ 345H5, JCP321H5.

Minor Program ERMIN1376 Chemistry (Science)

4.0 CHM/JCP credits are required.

Limited Enrolment – Enrolment in the Chemistry Minor Program is based on completion of 4.0 credits including CHM140Y5 (minimum grade of 60%)/(110H5,120H5) (minimum grade of 60% in CHM120H5) and MAT134Y5/ 135Y5/ 137Y5

Year 1: CHM140Y5/ (110H5,120H5)

Years 2, 3 & 4: 3.0 CHM/JCP credits, at least 1.0 of which must be at the 300/400 level.

Note: MAT134Y5/ 135Y5/ 137Y5 prerequisite is required for most 200-level CHM/JCP courses.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

CHM110H5 Chemical Principles 1 (SCI)

Matter and its transformations are studied at the macroscopic level. Topics include stoichiometry, phases of matter, equilibria, thermodynamics and colligative properties. [36L, 18P, 12T]

Exclusion: CHM139H1, 151Y1, 140Y5

Prerequisite: Grade 12 Chemistry (SCH4U)(minimum grade of 70); Grade 12 Advanced Functions (MHF4U0)(minimum grade of 70); Grade 12 Calculus and Vectors (MCV4U) highly recommended

Corequisite: MAT134Y5/ 135Y5/ 137Y5

CHM120H5 Chemical Principles 2 (SCI)

Building on the subject matter of CHM110H5, molecular events are studied at the microscopic level. Topics include atomic and molecular structure, intermolecular forces of attraction, reaction kinetics, and organic chemical reactions and mechanisms. [36L, 18P, 12T]

Exclusion: CHM138H1, 151Y1, 140Y5

Prerequisite: CHM110H5

Corequisite: MAT134Y5/ 135Y5/ 137Y5

CHM211H5 Fundamentals of Analytical Chemistry (SCI)

A rigorous introduction to the theory and practice of analytical chemistry. Development and applications of basic statistical concepts in treatment and interpretation of analytical data; direct and indirect precipitations; volumetric methods; acid-base, complexometric, redox and precipitation titrations; introduction to instrumental methods; potentiometry and absorption spectroscopy. Applications in biomedical, forensic and environmental areas will be considered. [24L, 48P, 12T]

Exclusion: CHM217H1

Prerequisite: MAT134Y5/ 135Y5/ 137Y5;

CHM140Y5(minimum grade of 60%)/(110H5,120H5; minimum grade of 60% in CHM120H5)

JCP221H5 Thermodynamics and Kinetics (SCI)

[Replaces CHM221H5] An introduction to equilibrium thermodynamics with application to ideal and non-ideal systems: covering the concepts of work and heat, the laws of thermodynamics, internal energy, enthalpy and entropy, the chemical potential, states of matter, phase rules and phase diagrams, and chemical equilibria. Kinetics topics include rate laws, both differential and integrated, rate constants, activated complex theory, and temperature effects. [36L, 15P, 14T]

Exclusion: CHM221H5, 220H1, 221H1, 225Y1

Prerequisite: MAT134Y5/ 135Y5/ 137Y5;

CHM140Y5(minimum grade of 60%)/(110H5,120H5; minimum grade of 60% in CHM120H5)/PHY135Y5/ (136H5,137H5) (minimum 60%)

Recommended Preparation: MAT212H5/ 223H5/ 232H5/ 242H5. These courses are also prerequisites for JCP321H5

CHM231H5 Inorganic Chemistry I (SCI)

Atomic structure; periodic properties of the elements; bonding theories-ionic, covalent (valence bond and molecular orbital) and metallic; structure and bonding in coordination compounds of main group elements and transition metals; descriptive chemistry of the metals. Reaction mechanisms. [36L, 28P, 10T]

Exclusion: CHM238Y1

Prerequisite: MAT134Y5/ 135Y5/ 137Y5;

CHM140Y5(minimum grade of 60%)/(110H5,120H5; minimum grade of 60% in CHM120H5)

CHM242H5 Introductory Organic Chemistry I (SCI)

Fundamentals of organic chemistry emphasizing reactions of alkanes and alkenes. The first half of a two-course sequence (with CHM243H5) required in the Chemistry major and specialist programs. [36L]

Exclusion: CHM138H1

Prerequisite: CHM140Y5(minimum grade of 60%)/(110H5,120H5; minimum grade of 60% in CHM120H5)

CHM243H5 Introductory Organic Chemistry II (SCI)

The chemistry of benzene, alcohols, aldehydes, ketones, carboxylic acid, esters, acid chlorides, amides and amines will be covered. As well, electrophilic aromatic substitution, protection and deprotection of alcohols, nucleophilic acyl substitution, nucleophilic addition, carbonyl alpha-substitution reaction, keto-enol tautomerism, carbonyl condensation and proton NMR will be introduced. The emphasis will be on organic mechanisms and application of organic reactions to multistep synthesis. Continues from CHM242H5. [24L, 48P, 12T]

Exclusion: CHM247H1, 249H1

Prerequisite: CHM242H5

CHM299Y5 Research Opportunity Program (SCI)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

CHM311H5 Instrumental Analytical Chemistry (SCI)

Introduction to the basic theory and practice underlying important techniques in analytical chemistry, chosen from three major areas of instrumental analysis: spectroscopy, electrochemistry and separation science. Specific topics will include fluorescence spectroscopy, atomic spectroscopy, x-ray fluorescence, voltammetry, high resolution gas and liquid chromatography, mass spectrometry, and a brief introduction to computer applications, including Fourier transform methods. A problem-based approach will be used to explore these methods in a wide variety of practical applications. [24L, 12T]

Exclusion: CHM314Y1, 317H1

Prerequisite: CHM211H5

Recommended Preparation: JCP221H5/ CHM221H5

JCP321H5 Introduction to Quantum Mechanics (SCI)

A first course covering basic concepts of quantum chemistry and physics. Topics include: de Broglie waves and wave-particle duality, the postulates of quantum mechanics, the Schrödinger equation, the square potential well and potential barriers, the harmonic oscillator, the rigid rotor, atoms, molecules and solids. [36L]

Exclusion: CHM326H1, 327Y1

Prerequisite: PHY135Y5/ (136H5, 137H5) (minimum 60%); JCP221H5/ CHM221H5/ PHY245H5; MAT212H5/ 223H5/ 232H5

JCP322H5 Introduction to Statistical Mechanics (SCI)

Statistical methods for bridging the quantum behaviour of atoms and molecules to their macroscopic properties in solid, liquid and gaseous states. The course introduces partition functions, canonical ensembles, and their application to thermodynamic properties such as entropy, heat capacity, equilibrium constants, reaction rates, and Bose-Einstein/Fermi-Dirac distribution functions. [36L]

Exclusion: CHM328H1, 327Y1

Prerequisite: JCP321H5

CHM331H5 Inorganic Chemistry II: Advanced Inorganic Chemistry (SCI)

Chemistry of metallic elements. Organometallics. Main group and transition elements. Rings, cages and clusters. Lanthanides and Actinides. Applications of IR, UV-VIS and multinuclear NMR spectroscopy. Symmetry. Inorganic synthesis. Non-aqueous solvents. Structure and bonding. Catalysis and industrial processes. [36L]

Exclusion: CHM338H1

Prerequisite: CHM231H5, 242H5

Corequisite: CHM243H5

CHM333H5 Bioinorganic Chemistry (SCI)

Principles of inorganic chemical reactions and their application to biochemical systems: kinetics, mechanisms and thermodynamics of ligand exchange, acid-base and redox reactions involving metalloproteins and their model compounds; mechanisms of catalysis by metalloenzymes and their model compounds; metal ion related diseases; metals in chemotherapy. [36L]

Exclusion: CHM437H1

Prerequisite: CHM231H5, 242H5

Corequisite: CHM243H5

CHM341H5 Organic Chemistry: Mechanism and Structure (SCI)

Stereochemistry and conformational analysis; mechanisms of important types of organic reaction; pericyclic reactions; reactive intermediates. [36L]

Exclusion: CHM348H1

Prerequisite: CHM243H5

Offered in alternate years, alternating with CHM345H5.

Offered in 2012-13.

CHM345H5 Organic Synthesis (SCI)

Methods used for forming carbon-carbon bonds will be reviewed, including reactions of the various types of nucleophilic carbon and the use of organometallic reagents. Other topics include functional group interconversions, oxidation and reduction and the role of elements such as boron, silicon and tin in organic synthesis. [36L]

Exclusion: CHM342H1

Prerequisite: CHM243H5

Offered in alternate years, alternating with CHM341H5. Not offered in 2012-13.

CHM347H5 Organic Chemistry of Biological Compounds (SCI)

The chemistry of selected classes of naturally occurring molecules such as those below, with emphasis on structure, stereochemistry, properties and synthesis. Amino acids, peptides, proteins, carbohydrates, lipids, nucleosides, nucleotides, and nucleic acids. [36L]

Exclusion: CHM347H1

Prerequisite: CHM243H5

Recommended Preparation: CHM341H5/ 345H5

CHM361H5 Structural Biochemistry (SCI)

An introduction to the molecular anatomy and properties of the major cellular biomolecules: proteins, nucleic acids, carbohydrates and lipids. The course also covers the structural organization of membranes and nucleoproteins. Enzyme mechanisms and membrane transport phenomena will be examined in the context of structure/function relationships. [24L, 12T]

Exclusion: BCH210H1, 242Y1

Prerequisite: CHM243H5

Recommended Preparation: BIO206H5; JCP221H5/ CHM221H5

CHM362H5 Metabolism and Bioenergetics (SCI)

Basic principles of biological energetics. Metabolic pathways for carbohydrate and lipid synthesis and degradation. Survey of amino acid and nucleotide metabolism. Integration and cellular regulation of metabolism. Intracellular signal transduction mechanisms. [24L, 12T]

Exclusion: BCH210H1, 242Y1

Prerequisite: CHM361H5

Recommended Preparation: BIO206H5; JCP221H5/ CHM221H5

CHM371H5 Techniques in Biological Chemistry (SCI)

A laboratory course to complement CHM361H5, 362H5. Experiments are designed to familiarize students with techniques commonly used to study the chemical and physical properties of biological molecules. Topics covered include a wide range of chromatographic methods, the isolation and characterization of subcellular organelles, enzyme purification and kinetics, isolation and characterization of nucleic acids and lipids, and fluorescence methodology. CHM371H5 is equivalent to BCH371H1 (enrolment limited). [96P]

Exclusion: BCH370H1, 371H1

Corequisite: CHM361H5, 362H5

NOTE: This is a half-credit (0.5) course that is offered over the full academic year.

CHM391H5 Instrumental Laboratory (SCI)

This laboratory course represents an integration of the study of fundamental physical chemistry with wide-ranging applications to instrumental methods of analysis, such as separation science, electrochemistry, spectroscopy and computer methods. The course will provide a solid hands-on grounding in many of the major topics covered in analytical and physical chemistry, and the optimization of instrumental analytical measurements by the application of physical principles. Students select from a variety of instruments to customize their program, and develop their own analytical methods to address analytical problems of interest to the student. [96P]

Exclusion: CHM314Y1, 327Y1

Prerequisite: CHM211H5, JCP221H5/ CHM221H5

Corequisite: CHM311H5/ JCP321H5

NOTE: This is a half-credit (0.5) course that is offered over the full academic year.

CHM393H5 Chemical Synthesis Laboratory (SCI)

This laboratory course comprises the synthesis of inorganic, organometallic, and organic compounds, supplemented by physical measurements (e.g., ir, uv, ^1H NMR spectra, kinetics, etc.) of the products where appropriate. Approximately eight weeks each will be spent on two groups of core experiments, one in organic and one in inorganic synthesis. The remaining six to eight weeks will be occupied by a choice of inorganic, organometallic, and/or organic experiments. [96P]

Exclusion: CHM338H1, 343H1, 348H1

Prerequisite: CHM231H5, 243H5

Corequisite: CHM331H5/ 333H5, CHM341H5/ 345H5

NOTE: This is a half-credit (0.5) course that is offered over the full academic year.

CHM399Y5 Research Opportunity Program (SCI)

This course provides third-year undergraduate students (after completion of at least 8 to 10 credits) who have developed some knowledge of Chemistry and its research methods, an opportunity to work in the research project of a professor in return for course credit. Students enrolled have the opportunity to become involved in original research, enhance their research skills and share in the excitement of acquiring new knowledge and in the discovery process of science. This course does not count as one of the requirements in the Chemistry Minor, Chemistry Major, Chemistry Specialist or Biological Chemistry Specialist programs. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: P.I.

JCP410H5 Modelling of Biochemical Systems (SCI)

An introduction to mathematical modelling of complex biological systems. The primary focus will be on biochemical kinetic models and the nonlinear dynamics that arise from them. An introduction to and survey of techniques in mathematics (especially nonlinear dynamics and stochastic processes) will be presented, along with an overview of numerical methods for computational simulation, including an introduction to molecular modelling. [24L]

Prerequisite: JCP221H5/ CHM221H5/ any PHY200 course; MAT212H5/ 223H5/ 232H5/ 233H5/ 242H5

Recommended Preparation: MAT212H5/ 242H5

Offered in alternate years, alternating with JCP422H5. Not offered in 2012-13.

CHM412H5 Analytical Methods of Biomolecule Analysis (SCI)

An exploration of biomolecule analysis methodologies, with an emphasis on nucleic acid analysis, will be done from the perspective of the Analytical Biochemist. The course will begin with brief reviews of the structure and function of biomolecules, solid-phase synthesis, extraction, pre-concentration and amplification methods. This will be followed by an exploration of established and emerging techniques for target biomolecule determinations, including: bioprobes, microarrays, biosensors and DNA sequencing technologies (including "next-next-generation" single molecule approaches). Current examples of implementation in the fields of proteomics and genomics will be discussed throughout the course, with an emphasis on life sciences and diagnostic testing applications. Course work will include independent literature reviews and student presentations. [24L, 12T]

Prerequisite: CHM311H5

Recommended Preparation: CHM243H5

CHM414H5 Advanced Topics in Analytical Chemistry (SCI)

An overview of both recent and fundamental developments of instrumentation that are revolutionizing the field of analytical chemistry, with an emphasis on applications in biological chemistry and biotechnology. Topics will include specialized mass spectrometry techniques, including secondary ion, fast atom bombardment and ion cyclotron resonance mass spectrometry methods; GC/MS and LC/MS interfaces; a survey of surface-oriented techniques including x-ray photoelectron spectroscopy, Auger electron spectroscopy, Raman spectroscopy, attenuated total reflection methods, total internal reflection fluorescence methods; Fourier transform theory and methods; microcomputer interfacing and chemometrics. [24L, 12T]

Prerequisite: CHM311H5

Recommended Preparation: JCP321H5

CHM416H5 Separations, Chromatography and Microfluidics (SCI)

Separation science will be explored by building on a survey of fundamental physical principles to understand processes of extraction, and technologies such as solid phase microextraction, supercritical fluid extraction, immunoaffinity extraction and molecularly imprinted polymers. Plate and rate theory will be developed to consider various forms of gas and liquid chromatographic methods, including hyphenated techniques that bridge to information detectors such as mass spectrometers. New opportunities for chromatography and separations by movement to small scale size will be considered by focusing on microfluidics, electro-osmotic flow and chip based microdevice applications. Applications examples will focus on problems in life sciences, forensics and environmental chemistry. [24L, 12T]

Exclusion: CHM416H1

Prerequisite: CHM311H5

JCP421H5 Quantum Mechanics (SCI)

The course offers an in-depth examination of the fundamental principles of quantum theory and a guide to its applications. Topics may vary but will include: time-independent Schrodinger equation, quantum dynamics in Heisenberg and Schrodinger pictures, time-independent perturbation theory, WKB approximation, variational method, spin, addition of angular momentum, time-dependent perturbation theory, scattering. [36L]

Prerequisite: JCP321H5, PHY325H5

Offered in alternate years, alternating with PHY451H5. Offered in 2012-13.

JCP422H5 NMR Spectroscopy (SCI)

Fundamentals of NMR spectroscopy including classical and quantum descriptions, NMR parameters and relaxation times, product operators, multi-dimensional NMR, and solid-state techniques. [24L]

Exclusion: CHM422H5

Prerequisite: JCP221H5/ CHM221H5/ PHY241H5, 245H5; MAT212H5/ 221H5/ 258Y5

Recommended Preparation: JCP321H5

Offered in alternate years, alternating with JCP410H5.

Offered in 2012-13.

CHM442H5 Developments in Organic Chemistry (SCI)

Applications of advanced fundamentals to, and recent developments in, multi-step organic synthesis. [24L]

Exclusion: CHM440H1

Prerequisite: CHM341H5, 345H5

Recommended Preparation: CHM393H5

Offered in alternate years with CHM444H5. Not offered in 2012-13.

CHM444H5 An Introduction to Medicinal Chemistry and Molecular Recognition (SCI)

An introduction to drug discovery, design and development. This course will focus on the potential of proteins (enzymes, receptors, receptor structure and signal transduction) as targets for molecular therapeutic intervention. The strategies of finding a drug target, optimizing target interactions and synthetic molecular therapeutic development will all be considered and discussed. The modern technologies of targeting protein-protein interactions will also be covered. [24L]

Prerequisite: CHM361H5

Offered in alternate years with CHM442H5. Offered in 2012-13.

CHM462H5 Advances in Chemical Biology (SCI)

Survey of recent developments in biological chemistry and applications of chemistry to study processes of biological significance. [24L]

Prerequisite: CHM361H5

Recommended Preparation: CHM347H5, 371H5

JCP463H5 Techniques in Structural Biology (SCI)

Biochemical and biophysical approaches to studies of protein interactions, structures, and dynamics. Theory and practice of specific experimental approaches will provide a fundamental understanding on information potential and technique limitations. Specific applications from the current literature will be discussed. Student evaluations will include oral presentations describing studies using the techniques. [24L, 12T]

Prerequisite: CHM361H5/ (PHY332H5/ 333H5)

Recommended Preparation: CHM362H5, JCP221H5

JBC472H5 Seminars in Biotechnology (SCI)

An introduction to current research in biochemistry and biotechnology, through seminars and literature reviews, presented by invited speakers and students. Subject areas include biotechnology, biomaterials, enzyme engineering, biosensors, drug delivery, spectrometry, separations chemistry, and bioinformatics. (42 contact hours over two semesters).

Prerequisite: BIO372H5; CHM361H5, 362H5/ BIO315H5

CHM485H5 Dissertation Based on Literature Research (SCI)

A dissertation will be written based on literature research of a topic of current interest in the field of chemistry. The research will be conducted under the supervision of a chemistry faculty member other than the student's CHM489Y5 supervisor. The research topic must not overlap that of the student's CHM489Y5 project. The goals of this course are to achieve literature research expertise as well as in-depth knowledge of a particular chemistry topic, while perfecting scientific writing and oral presentation skills. Evaluation is based on a final written report describing the aims and results of the research, as well as an oral presentation of the work. The course is normally taken in the student's fourth year, in either the Fall or Winter terms, but may be taken in the Summer term. Enrolment in CHM485H5 requires submitting an application to the department before the end of the term prior to that in which it is intended to undertake the research. Students are encouraged to consult with, and obtain the consent of, prospective supervisors before applying for enrolment. [24S]

Prerequisite: 2.5 credits in CHM at 300 level.

JCB487Y5 Advanced Interdisciplinary Research Laboratory (SCI)

Students will work together as members of a multidisciplinary team toward the completion of an interdisciplinary experimental or theoretical research project. Teams will be comprised of at least three students, with representation from at least three areas of specialization, namely, astronomy, biology, chemistry, earth sciences or physics. The interdisciplinary projects will be based on current trends in research and student teams will work to complete their projects with guidance provided by a team of faculty advisors from the Biology Department and the Department of Chemical and Physical Sciences. In addition to the rigorous development of research skills, the course will also provide students with practical experience in project management and training in effective project management techniques. [240P]

Exclusion: BIO481Y5, CBJ481Y5, CHM489Y5, CHM499Y1, PHY489Y5

Prerequisite: 2.0 credits 300 level from BIO/CHM/JBC/JCP/PHY and 1.0 credit from BIO215H5, 314H5, CHM371H5, 391H5, 393H5, PHY324H5. The course is normally taken in the student's fourth year. In order to enroll in this course, students must obtain approval from the faculty member(s) who will serve as the supervisor(s) several months in advance of the start of the course.

Evaluation: As these are team-based projects, identical grades will be awarded to all members of a given team. This is a balloted course.

CHM489Y5 Introduction to Research in Chemistry (SCI)

An experimental or theoretical research problem in chemistry will be investigated under the supervision of a chemistry faculty member other than the student's CHM485H5 supervisor. The research problem must not overlap that of the student's CHM485H5 research topic. In addition to learning to plan, conduct and evaluate a research program, students will receive training in written and oral presentation skills. Evaluation is based on a final written report describing the aims and results of the research, as well as an oral presentation of the work. The course is normally taken in the student's fourth year. Enrolment in CHM489Y5 requires submitting an application to the department in the spring of the student's third year. Acceptance into the course is dependent on the student having achieved a satisfactory GPA, and having reached agreement with a potential supervisor, in addition to having completed the course prerequisites listed below. Students are encouraged to consult with, and obtain the consent of, prospective supervisors before applying for enrolment. [240P]

Exclusion: CHM499Y1, JCB487Y5

Prerequisite: 2.0 300 level credits in CHM/JCP and two of BIO215H5; CHM371H5, 391H5, and 393H5; PHY324H5. With the permission of the course coordinator one of the lab courses may be taken as a corequisite.

Cinema Studies (HBA)

Professors

N. Narine, B.A., M.A., Ph.D.
B. Price, B.A., M.A., Ph.D.
M. Sutherland, B.F.A., M.A., Ph.D.

Chair

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Assistant to Chair

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Program Director

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Undergraduate Counsellor

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The Cinema Studies program is devoted to the stylistic, historical and theoretical analysis of film. Students learn about film as a unique mode of communication in the 20th and 21st centuries, while also investigating what it is that film can be said to share with allied art forms. In addition to surveys of major world cinemas, students in the program will also be concerned with many questions about the relation between aesthetics and politics as well as how moving images have an impact on personal and cultural identities and on society in general.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CIN Cinema Studies (page 97)
DRE Drama (page 311)
FRE French (page 184)
GER Language Studies (page 235)
ITA Italian (page 230)
VCC Visual Culture and Communication (page 315)
VST Fine Art History (FAH) (page 51)

Minor Program ERMIN0797 Cinema Studies (Arts)

4.0 credits are required, including at least 1.0 credit at the 300 level.

First Year: 1.5 credits: VST100H5, VST101H5, CIN202H5

Higher Years: 2.5 credits from the following: CIN207H5; CIN301H5; CIN302H5; CIN303H5; CIN304H5; CIN306H5;

CIN307H5, CIN401H5; VCC205H5; DRE350H5/ 352H5; FRE393H5, FRE397H5; GER353H5, 354H5; ITA242Y5/ 243Y5; ITA246Y5/ 247Y5; ITA306H5/ 307H5; ITA342Y5/ 343Y5

The Cinema Studies Minor Program is now housed in the Department of Visual Studies. For more information please visit the Departmental website at www.utm.utoronto.ca/dvs

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

CIN202H5 An Introduction to Cinema Studies (HUM)

Introduction to Film Analysis, Concepts of Film Style and Narrative. Topics include documentary, avant-garde, genres, authorship, ideology and representation. [24L, 48S, 24T]

Exclusion: INI115Y1, NEW115Y1, VIC115Y1, ERI201H5, ERI202H5, CIN205Y5

Recommended Preparation: VST100H5, VST101H5

CIN207H5 The Moving Image: History and Concepts (HUM)

This class is designed to introduce you to some of the major concepts that animate film history, including national/transnational style, medium specificity (i.e. what can film do that other mediums cannot), realism, identification, immersion, distance, taste, among many others. [24L, 24P]

Recommended Preparation: VST100H5, VST101H5, ERI201H5/ ERI202H5/ CIN205Y5/ CIN202H5.

CIN301H5 Topics in Cinema Studies (HUM)

The course may have a historical, genre, theoretical, auteur, or other focus. Students should contact the program director for the current topic. [24L, 24P]

Recommended Preparation: VST100H5, VST101H5, ERI201H5/ ERI202H5/ CIN205Y5/ CIN202H5 or at least 1.0 credit in courses that count toward the Cinema Studies minor.

CIN302H5 Bollywood in Context (HUM)

India has arguably the most popular and prolific film industry in the world. This course contextualizes the relatively recent 'Bollywood' phenomenon within the history of Indian commercial cinema and key aspects of modern Indian culture, emphasizing the popular cinema's role in constructing historically changing ideas of national and gendered identity. It also challenges the assumptions of film theories developed in relation to Hollywood or European cinema by introducing film theory concepts that address South Asian image-cultures (such as darshan, frontality, melodrama and interruption). [24L, 24P]

Exclusion: VCC390H5 - Topic: Bollywood
Recommended Preparation: VST100H5, VST101H5, ERI201H5/ ERI202H5/ CIN205Y5/ CIN202H5 or VCC201H5

CIN303H5 Global Auteurs (HUM)

This course is devoted to three major international filmmakers: Michael Haneke (Austria), Olivier Assayas (France), and Hou Hsiao-Hsien (Taiwan). While different in many important respects, these filmmakers are nevertheless linked by their tendency to make international films that are themselves mediations on national identity in an increasingly globalized world. Screenings will include *Cache*, *Code Unknown*, *Carlos*, *Demonlover*, *The Flight of the Red Balloon*, and *Goodbye South, Goodbye*, to name just a few. [24L, 24P]

Recommended Preparation: VST100H5, VST101H5, ERI201H5/ ERI202H5/ CIN205Y5/ CIN202H5 or VCC201H5.

CIN304H5 The Violent Image (HUM)

It is commonly believed that violent images produce violent, or desensitized people. In this class, we will examine the multiple forms of violence in film, television, and videogames as well as the variety of discourses about violence and images. Rather than confirming the moral logic of condemnation of the violent image, we will ask instead what good a violent image might do. [24L, 24P]

Recommended Preparation: VST100H5, VST101H5, ERI201H5/ ERI202H5/ CIN205Y5/ CIN202H5 or at least 1.0 credit in courses that count toward the Cinema Studies minor.

CIN306H5 The Comedic Image (HUM)

Comedies routinely depend on the performance of the unthinkable in the ordinary. Our laughter follows from the saying or doing of the unsayable and the undoable. Comedy is in this way both a form of bad manners and also a uniquely philosophical genre, insofar as saying the unsayable means that we are able to recognize more than what we see or typically say. This course will survey the history of comedy and its relation to thought, perception, and social values. [24L, 24P]

Recommended Preparation: VST100H5, VST101H5, ERI201H5/ ERI202H5/ CIN205Y5/ CIN202H5 or at least 1.0 credit in courses that count toward the Cinema Studies minor.

CIN307H5 Movement (HUM)

Since the advent of cinema, filmmakers and film theorists have repeatedly attempted to define film as a unique art form on the basis of its most defining characteristic: movement. Painters can represent movement, but film is movement itself. Not surprisingly, so many filmmakers who are recognized as significant artists are most easily identified by the distinctive style of their camera movement. This class will be devoted to a consideration of the nature, meaning, and styles of movement in film. [24L, 24P]

Recommended Preparation: VST100H5, VST101H5, ERI201H5/ ERI202H5/ CIN205Y5/ CIN202H5 or VCC201H5.

CIN401H5 Topics in Cinema Studies (HUM)

The course may have a historical, genre, theoretical, auteur, or other focus. Students should contact the Department for the current topic.

Prerequisite: ERI201H5/ ERI202H5/ CIN205Y5/ CIN202H5 or at least 1.0 credit in courses that count toward the Cinema Studies minor. and 1.0 credit at the 300-level in CIN or P.I.

Classical Civilization (HBA)

Professor Emeritus

R.L. Beck, B.A., M.A., Ph.D.
C.I. Rubincam, B.A., B.A., Ph.D.

Professors

A. Bendlin, M.A., D. Phil.
M. Revermann, M.A., D.Phil.

Chair

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Academic Counsellor

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Classics is the study of the civilizations of Greece and Rome. These are of interest both in their own right and because their achievements have been the foundation of so many aspects of our own civilization: its art, languages, literature, philosophy and government. Courses in Classics thus present background material that is indispensable for the understanding of many other studies in the Humanities.

The program is designed to meet the needs both of students seeking a broad survey of Greek and Roman culture and of specialists in other Humanities subjects who require background knowledge of Classics for their particular interests, whether literary, historical, religious or philosophical.

U of T Mississauga's programs in Classical Civilization (CLA) include courses in: (i) Greek and Roman history, (ii) Greek and Latin literature (in translation), (iii) mythology and religion, (iv) the Greek and Latin contribution to modern English scientific and technical terminology. Courses of type (i) may be counted for credit towards History programs. Courses in Latin language (LAT) are offered at U of T Mississauga by the Department of Language Studies (see Language Courses section of this calendar). Greek (GRK) language courses are currently offered only on the St. George Campus.

Courses offered every year: CLA101H5, 201H5, 204H5, 230H5, 231H5, 233H5, 237H5.

For other courses that can be counted for credit to the program in Classical Civilization, see the respective program descriptions for the Major Program ERMAJ0382 and the Minor Program ERMIN0382.

The department encourages students to take advantage of the various study abroad opportunities available at UTM.

For more information, refer to the Department of Historical Studies website at

<http://www.utm.utoronto.ca/historicalstudies/>

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CLA Classics (page 100)
DRE Drama (page 311)
FAH Fine Art History (FAH) (page 51)
HIS History (page 207)
PHL Philosophy (page 263)

Major Program ERMAJ0382 Classical Civilization (Arts)

7.0 credits are required, including 4.0 at the 300+ level.

First Year: HIS101H5; in addition, 0.5 credits from the following list: CLA101H5, 230H5, 231H5, 233H5, 237H5.

Higher Years: 6.0 additional CLA credits at the 200+ level, including at least 4.0 credits at the 300+ level.

Up to 2.0 credits in the following areas may be substituted for CLA courses. DRE356H5, 358H5, 420H5 and 422H5 may be substituted when those courses are taught as ancient drama. RLG courses may be substituted when those courses focus on religion in the ancient Greek or Roman Mediterranean. Courses in ancient Art (e.g., FAH203H5/ 204H5) or ancient Philosophy (e.g., PHL202H5/ 300H5) may be substituted for CLA courses. Courses in Latin language (LAT), offered at U of T Mississauga by the Department of Language Studies (see p.219) may be substituted for 200-level CLA courses. Students are invited to contact instructors for further information.

Minor Program ERMIN0382 Classical Civilization (Arts)

4.0 credits are required, including 1.0 at the 300+ level.

First Year: HIS101H5; in addition, 0.5 credit from the following list: CLA101H5, 230H5, 231H5, 233H5, 237H5.

Higher Years: 3.0 additional CLA courses at the 200+ level, including at least 1.0 at the 300/400 level.

Up to 1.0 credit in the following areas may be substituted for CLA courses. DRE356H5, 358H5, 420H5 and 422H5 may be substituted when those courses are taught as ancient drama. RLG courses may be substituted when those courses focus on religion in the ancient Greek or Roman Mediterranean. Courses in ancient Art (e.g., FAH203H5/ 204H5) or ancient Philosophy (e.g., PHL202/ 300H5) may be substituted for CLA courses. Courses in Latin language (LAT), offered at U of T Mississauga by the Department of Language Studies (see p. 219) may be substituted for 200 level CLA courses.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

CLA101H5 Introduction to Classical Civilization (HUM)

An introduction to ancient Graeco-Roman civilization: a basic historical narrative with discussion of a selection of issues. [36L]

Exclusion: CLA160H1, CLA160Y1, CLA160Y5

CLA201H5 Latin and Greek in Scientific Terminology (HUM)

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 formed from Latin and Greek elements. [36L]

Exclusion: CLA201H1

CLA204H5 Introduction to Classical Mythology (HUM)

A survey of the myths and legends of the ancient Greek and Roman Mediterranean world in ancient literature and art. Consideration may also be given to their role in modern literature and art. [36L]

Exclusion: CLA204H1, CLA105H5, 205Y5

CLA230H5 Introduction to Greek History (HUM)

A survey of the salient political, social and cultural developments in Greek history from the Bronze Age to the second century B.C. [36L]

Exclusion: CLA230H1

Recommended Preparation: CLA101H5/ HIS101H5

CLA231H5 Introduction to Roman History (HUM)

A survey of the salient political, social and cultural developments in Roman history from the mythical beginnings to the third century A.D. [36L]

Exclusion: CLA231H1

Recommended Preparation: CLA101H5/ HIS101H5

CLA232H5 Ancient Astronomy and Astrology (HUM)

Greek and Roman views of the universe; the origin and development of scientific astronomy, astrology, and star worship. [36L]

Exclusion: CLA206H1

CLA233H5 Introduction to Roman Culture & Society (HUM)

A general introduction to the society and culture of ancient Rome and the Roman Empire. Topics may include literature, art, social customs, gender and sexuality, daily life, and religious festivals (the circus, gladiatorial games, etc.). [36L]

Exclusion: CLA233H1

Recommended Preparation: CLA101H5/ HIS101H5

CLA234H5 Ancient Science and Technology (HUM)

A general introduction to early technology, its achievements and limitations, the origins and development of ancient science, including ancient medicine, and their interaction with philosophy. [36L]

Exclusion: CLA203H1

CLA237H5 Introduction to Greek Culture & Society (HUM)

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.). [36L]

Exclusion: CLA232H1

Recommended Preparation: CLA101H5/ 204H5/ HIS101H5

CLA299Y5 Research Opportunity Program (HUM)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early February. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: Completion of at least 4.0 and not more than 9.0 credits.

This course may be substituted for 1.0 credits at the 300+ level.

CLA300H5 Greek Tragedy and Comedy (HUM)

Greek drama from the origins of tragedy in the sixth century B.C. to New Comedy, with close study of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, and Menander, and attention to Aristotle's *Poetics*. [24L]

Exclusion: CLA382H1, CLA300Y5

Recommended Preparation: CLA204H5/ 205Y5/ 237H5

CLA301H5 Greek Epic (HUM)

The *Iliad* and the *Odyssey*, with comparative study of related texts. [24L]

Exclusion: CLA236H1

Prerequisite: CLA204H5/ 230H5/ 237H5

CLA302H5 Roman Epic (HUM)

The Aeneid of Virgil and/or other Roman epics with comparative study of related texts. [24L]

Exclusion: CLA236H1

Prerequisite: CLA204H5/ 231H5/ 233H5

CLA303H5 The Ancient Novel (HUM)

The human and social climate in which prose fiction arose; the Greek romances of love and adventure (Heliodorus, Longus, Chariton), and the more ironical and socially conscious works of the Roman writers (Petronius, *The Satyricon*, and Apuleius, *The Golden Ass*). [24L]

Exclusion: CLA202H5

Prerequisite: CLA204H5/ 230H5/ 231H5/ 233H5/ 237H5

CLA304H5 Topics in Roman Poetry (HUM)

A selection of texts from Roman poetry. [24L]

Prerequisite: CLA204H5/ 231H5/ 233H5

CLA308H5 Religion in the Ancient Greek World (HUM)

A study of the religious cults and forms of worship current in the ancient Greek world. The course will consider religion in the ancient Greek city-states, but attention will also be paid to the so-called 'mystery religions', Greek beliefs about the afterlife, and intellectual reflection on religion in Greek literature. [24L]

Prerequisite: Prerequisite for CLA students: CLA204H5/ 230H5/ 237H5; for RLG students: any pertinent RLG course at the 200+ level.

CLA310H5 Religion in the Roman Empire (HUM)

A close study of the religious cults and forms of worship current in the Roman Empire during the first four centuries C.E. The course will concentrate on the so-called 'pagan' cults, but their interaction with Jews and the early Christians, as well as the rise of Christianity, will also be considered. Attention will also be paid to the imperial cult ("emperor worship"); the so-called 'mystery religions' and 'oriental religions'; the diversity of local religion across the empire; oracles, private religiosity and intellectual reflection on religion in the ancient Greek and Roman writers. [24L]

Exclusion: CLA361Y1

Prerequisite: Prerequisite for CLA students: CLA231H5/ 233H5; for RLG students: any pertinent RLG course at the 200+ level.

CLA319H5 Women in Antiquity (HUM)

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. [24L]

Exclusion: CLA219H1, CLA219H5

Prerequisite: CLA204H5/ 230H5/ 231H5/ 233H5/ 237H5

CLA320H5 The Etruscans (HUM)

A close study of the history, culture, society, religion, art and archaeology of the Etruscans (800-100 BCE), and of their contacts with Greek and Roman society and culture. [24L]

Prerequisite: CLA230H5/ 231H5/ 233H5/ 237H5

CLA335H5 Democracy in Ancient Greece (HUM)

The history and theory of democracy in the city-states of Ancient Greece will be studied using a variety of different types of evidence (archaeology, documents, literary texts). Comparisons with modern political situations and issues will be encouraged as a means of sharpening insight into ancient political circumstances and systems. [24L]

Exclusion: CLA235Y5, 235H5

Prerequisite: CLA230H5/ 237H5

CLA347H5 Alexander the Great (HUM)

The career and achievement of Alexander the Great. [24L]

Exclusion: CLA346Y5

Prerequisite: CLA230H5/ 237H5

CLA348H5 Egypt in the Graeco-Roman World (HUM)

An in-depth exploration of Egypt's history and culture under Greek and Roman rule (332 BCE-395 CE) and of its interaction with the Graeco-Roman Mediterranean. Topics vary from year to year and include (but are not limited to): "Religion in Graeco-Roman Egypt," "Art and Archaeology in Graeco-Roman Egypt," "Isis and Serapis in the Graeco-Roman Mediterranean." [24L]

Prerequisite: CLA230/231/233/237

CLA367H5 The Roman Republic (HUM)

A survey of the salient political, constitutional, social, economic, military, religious, and cultural developments in the Roman Republic, from the late sixth century to the final decades of the first century BC. [24L]

Exclusion: CLA367H1

Prerequisite: CLA231H5/ 233H5

CLA368H5 Augustus and the Julio-Claudians (HUM)

A survey of the salient political, constitutional, social, economic, military, religious and cultural developments in the Roman Empire in the age of Augustus and during the reigns of the Julio-Claudian emperors (ca. 44 BCE- 68CE). [24L]

Exclusion: CLA368H1

Prerequisite: CLA231H5/ 233H5

Recommended Preparation: CLA367H5

CLA369H5 The High Roman Empire, 68-305 CE (HUM)

A survey of the salient political, constitutional, social, economic, military, religious and cultural developments in the Roman Empire, from the 'year of the four emperors' (68 CE) to the fourth century CE. [24L]

Exclusion: CLA369H1

Prerequisite: CLA231H5/ 233H5

Recommended Preparation: CLA368H5

CLA370H5 Late Antiquity (HUM)

A survey of the salient political, constitutional, social, economic, military, religious and cultural developments in the Roman Empire from the fourth century to the age of Justinian. [24L]

Exclusion: CLA378H1

Prerequisite: CLA231H5/ CLA233H5

Recommended Preparation: CLA369H5

CLA390H5 Topics in Greek History & Culture (HUM)

A detailed study of a topic of Greek history, literature, or material culture. Topics will vary from year to year. [24L]

Prerequisite: At least 1.5 credits in Classics, including CLA230H5/ 237H5

CLA391H5 Topics in Roman History & Culture (HUM)

A detailed study of a topic of Roman history, literature, or material culture. Topics will vary from year to year. [24L]

Prerequisite: At least 1.5 credits in Classics, including CLA231H5/ 233H5.

CLA395H5 Topics in Classics (HUM)

An in-depth examination of historical issues. Content in any given year depends on instructor. See Department of Historical Studies web site for more details. [24L]

Prerequisite: At least 1.5 credits in Classics.

CLA399Y5 Research Opportunity Program (HUM)

For senior undergraduate students who have developed some knowledge of a discipline and its research methods, this course offers an opportunity to work on the research project of a professor. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: Completion of at least 8.0, and not more than 10.0, credits.

CLA404H5 Advanced Topics in Classics (HUM)

A critical exploration of selected topics of Greek or Roman history, literature, philosophy, or material culture. Topics will vary from year to year. [24S]

Prerequisite: At least 2.5 credits in Classics, including at least 1.5 credits at the 300 level.

CLA405H5 Theories of Myth (HUM)

A critical exploration of major modern approaches to the analysis and interpretation of myth with specific reference to their application to ancient Graeco-Roman myths. [24S]

Exclusion: CLA305H1

Prerequisite: At least 2.5 credits in Classics, including at least 1.5 credits at the 300 level, and including CLA204H5.

CLA499H5 Independent Reading (HUM)

Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Majors. After obtaining a supervisor, a student must apply to the Department of Historical Studies. A maximum of two reading courses, amounting to 1.0 credit, is permitted.

Exclusion: CLA 401H5/ 401Y5

Prerequisite: At least 2.5 credits in Classics, including at least 1.5 credits at the 300 level.

CLA499Y5 Research Opportunity Program (HUM)

For senior undergraduate students who have developed some knowledge of a discipline and its research methods, this course offers an opportunity to work on the research project of a professor. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: Completion of at least 8.0, and not more than 10.0, credits.

Commerce (BCom, HBA)

Professors

V. Aivazian, B.S., M.A., Ph.D.
 G.J. Anderson, B.A., M.Sc., Ph.D.
 L.J. Brooks, B.Com., M.B.A., F.C.A.
 L. Brooks, B.A., Ph.D.
 F. Chen, B.A., M.A., M.A., Ph.D.
 M. Duarte, B.A., M.A., Ph.D.
 A. Erosa, B.A., M.A., Ph.D.
 M. Faig, Licenciatura, M.A., Ph.D.
 L. Florence, M.B.A., M.Sc.
 A. Galasso, B.A., M.A., Ph.D.
 H.P. Gunz, B.Sc., D.Phil, Ph.D., Dp.B.A.
 G. Hamilton, B.Sc., M.A., Ph.D.
 T. Hossain, B.A., B.S., Ph.D.
 G. Kambourov, B.A., M.A., Ph.D.
 S. Kang, B.Sc., M.A., Ph.D.
 J. Kitunen, B.B.M., C.A.
 L. Kramer, B.B.A., Ph.D.
 N. Lacetera, B.S., Ph.D.
 Y. Li, B.Sc., M.B.A., Ph.D.
 K. Li, B.A., M.B.A., M.S., Ph.D.
 J. Maheu, B.A., M.S., Ph.D.
 R. McMillan, B.A., Ph.D.
 A. Melino, B.A., Ph.D.
 S. Meza, I.E., M.B.A., M. Phil
 P. Oreopoulos, B.A., M.A., Ph.D.
 A. Park, M.Phil., Dipl.Wirt.Math, Ph.D.
 C. Pitchik, B.A., M.Sc., Ph.D.
 F. Reid, B.A., M.Sc., Ph.D.
 M. Schneider, B.Com., L.L.B., M.B.A., C.F.P., C.A.
 C. Seguin, M.B.A., C.G.A.
 X. Shi, B.Sc., M.A., Ph.D.
 S.M. Toh, B.B.S., Ph.D.
 M.M. Tombak, B.A.Sc., M.B.A., A.M., Ph.D.
 J. Van Biesebroek, B.A., M.A., Ph.D.
 G. Virag, B.A., M.A., Ph.D.
 A.K.P. Wensley, M.A., M.A., M.B.A., Ph.D.
 I. Wiecek, B.Com., C.A.
 M. Ye, B.A., M.A., Ph.D.
 X. Zhu, B.Sc., M.Sc., Ph.D.

Chair, Economics
 Professor V. Aivazian

Chair, Management
 Professor M.M. Tombak

Associate Chair
 Professor H.P. Gunz

Assistant Director, Operations
 Heather Hines
 Room 204, Kaneff Centre
 905-569-4972

Director, Undergraduate Programs
 Professor H.P. Gunz

Program Assistant
 Christopher Jones
 Room 205, Kaneff Centre
 905-569-4917

Student Advisor
 Mary Wellman
 Room 215, Kaneff Centre
 905-828-5309

Departmental Secretary
 Joanna Mackie
 Room 207B, Kaneff Centre
 905-828-3914

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

Commerce graduates frequently become professional accountants, economists, actuaries, financial analysts, marketing analysts, managers of firms and government, or proprietors of small businesses. Some commerce students choose to do post-graduate studies; law schools and MBA programs have been favoured by recent graduates.

The Specialist Program in Accounting allows students to complete the prerequisite studies for professional accounting qualifications (e.g. CA, CMA, CGA) within the BCom. There are also Specialist Programs in Finance, Human Resource Management and Marketing.

Commerce students have the opportunity to participate in an international exchange program during third year. This is an excellent opportunity for students to enhance their university experience through living and studying in a new and different environment. Exchange programs give commerce students valuable international experience necessary in today's global marketplace.

Commerce is a deregulated fees program and, therefore, tuition fees for students enrolled in this program are higher than for other regulated fee programs. Fees are charged on a program and not a per course basis. See www.fees.utoronto.ca for more information on fee structures.

Professional Skills Development Program (PSDP)

The Professional Skills Development Program (PSDP) has been created exclusively for Commerce and BBA/Management students as a way to encourage skill development beginning in the second year through to final year.

The information and skills gained through participation in this program will help students to:

- Strengthen technical and soft skills necessary for workplace success.
- Increase awareness of marketability on the job market and confidence in abilities

- Effectively make the transition from school to the workplace
- Manage their career by navigating through the working world more effectively

By participating in the program, students will be officially recognized and rewarded for their co-curricular activities through a transcript notation. Students will need to earn a minimum of at least 46 PSDP skill points over the course of their academic program. Upon completion of this requirement, students can submit an application to the PSDP Advisory Committee for transcript notation consideration. For more information and program details, please visit the Commerce or Management Blackboard organization or <http://www1.utm.utoronto.ca/management/?p=careers>.

NOTES:

1. **The Program requirements in effect at the time the student is admitted to the program must be met in order to fulfill the Degree requirements.**
2. No more than 15.0 credits from MGD, MGM, MGT, RSM and ECO, combined, for degree credit.
3. STA248H5, 250H1, 257H5, 258H5, 261H5 are counted as ECO courses.
4. **Students enrolled in a Commerce Program must complete MGM101H5 by the end of their 2nd year. Commerce students will not be admitted to 3rd year MGT courses until such time as they have completed MGM101H5.**
5. MGM102H5 will not count as a credit towards the Accounting Specialist.
6. Students interested in combining a BCom degree with an Economics Specialist Program should refer to the appropriate Program of Study for details.
7. Students are encouraged to take one course towards the Distribution Requirement (see Degree Requirements (Page 34)) in First Year.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

MGM Management (page 248)

Specialist Program ERSPE2273 Commerce and Finance (BCom)

This program leads to the Bachelor of Commerce degree and requires 14.0 to 15.0 credits out of a total of 20.0 credits. See Degree Requirements (Page 34).

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite Courses:** ECO100Y5 (63%); MGT120H5 (63%); MAT133Y5/ MAT135Y5 (50%) in a minimum of 4.0 credits.
2. **Cumulative Grade Point Average (CGPA):** Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand.

Note: Transfer Credits: Students applying to Commerce with transfer credits must meet these requirements:

1. The CGPA must meet the cut off in a minimum of 4.0 credits taken at U of T Mississauga.
2. The combined CGPA of all courses taken at another institution plus U of T Mississauga courses must meet the minimum cut off for the year in which you are applying.

Application for admission to the program for all students is made during the Subject POST request period in April-May.

Enrolment in 200+ level MGT courses is restricted to students enrolled in the Commerce Programs.

First year (3.0 credits): MGM101H5; MGT120H5; ECO100Y5; MAT133Y5/ MAT135Y5 (or equivalent)

Higher Years: Management (5.0 credits):

1. MGT223H5, 220H5, 338H5, 339H5
2. 1.0 credit from: MGT252H5, 262H5, 353H5, 363H5, 371H5/ 422H5, 374H5, 393H5
3. 1.0 credit in MGT at 400 level
4. 1.0 credit in MGT at 200/300/400 level

Economics (5.0 credits):

1. ECO200Y5/ 204Y5/ 206Y5, ECO202Y5/ 208Y5/ 209Y5
2. ECO220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 248H5/ 258H5)/STA(257H5, 261H5)
3. 2.0 credits in ECO at 300/400 level, no more than 1.0 of which may be a course in Economic History

Writing Requirements : (2.0 credits) ANT204H5; CLA (except 201H5); one of (ECO322Y5 / 323Y5 / 333Y5 / 336Y5/ 344H5/ 369H5 / 373Y5 /399Y5/ 456H5); ENG; FAH; HIS; HPS(G); LIN; PHL (except 245H5, 246H5, 247H5,

344H5, 345H5, 346H5, 347H5); POL; RLG; SOC (excluding SOC300Y5); WRI

Writing courses must be in the English language.

Specialist Program ERSPE1704 Commerce and Finance: Accounting (BCom)

This program leads to the Bachelor of Commerce degree.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite Courses:** ECO100Y5 (63%); MGT120H5 (63%); MAT133Y5/ MAT135Y5 (50%) in a minimum of 4.0 credits.
2. **Cumulative Grade Point Average (CGPA):** Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand.

Note: Transfer Credits: Students applying to Commerce with transfer credits must meet these requirements:

1. The CGPA must meet the cut off in a minimum of 4.0 credits taken at U of T Mississauga.
2. The combined CGPA of all courses taken at another institution plus U of T Mississauga courses must meet the minimum cut off for the year in which you are applying.

Application for admission to the program for all students is made during the Subject POST request period in April-May.

First Year (3.0 credits): MGM101H5; MGT120H5; ECO100Y5; MAT133Y5/ 135Y5 (or equivalent)

Higher Years : Management requirements: (8 credits)

If pursuing the CA stream:

1. MGT220H5, 223H5, 224H5
2. MGT321H5, 322H5, 323H5, 338H5, 339H5, 393H5
3. MGT419H5, 421H5, 422H5, 423H5, 426H5, 428H5, 429H5

Economics requirements: (5 credits)

1. ECO200Y5/ 204Y5/ 206Y5, ECO202Y5/ 208Y5/ 209Y5,
2. ECO220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 248H5/ 258H5)/STA(257H5, 261H5)
3. 1.0 credit from ECO322Y5/ 323Y5/ 333Y5/ 336Y5/ 344H5/ 373Y5
4. 1.0 credit in ECO at 300/400 level
No more than 1.0 Economic History credit

Writing Requirements: Writing Requirements (1.0 credit) from:

ANT204H5; CLA (except 201H5); ENG; FAH; HIS; HPS(G); LIN; PHL (except 245H5, 246H5, 247H5, 344H5, 345H5, 346H5, 347H5); POL; RLG; SOC (excluding SOC300Y); WRI

Writing courses must be in the English Language.

Note: MGM102H5 will not count as a credit towards the Accounting Specialist.

Consult the Department for CMA and CGA requirements.

Specialist Program ERSPE2034 Commerce and Finance: Finance (BCom)

This program leads to the Bachelor of Commerce degree.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite Courses:** ECO100Y5 (63%); MGT120H5 (63%); MAT133Y5/ MAT135Y5 (50%) in a minimum of 4.0 credits.
2. **Cumulative Grade Point Average (CGPA):** Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand.

Note: Transfer Credits: Students applying to Commerce with transfer credits must meet these requirements:

1. The CGPA must meet the cut off in a minimum of 4.0 credits taken at U of T Mississauga.
2. The combined CGPA of all courses taken at another institution plus U of T Mississauga courses must meet the minimum cut off for the year in which you are applying.

Application for admission to the program for all students is made during the Subject POST request period in April-May.

First Year: (3 credits): MGM101H5; MGT120H5; ECO100Y5; MAT133Y5/ 135Y5 (or equivalent)

Higher Years: Management (7.0 credits):

1. MGT220H5, 223H5
2. 1.0 credit from: MGT252H5, 262H5, 353H5, 363H5, 371H5, 374H5,
3. MGT330H5, 338H5, 339H5, 393H5, 431H5, 438H5, 439H5
4. 1.0 credit in MGT at 200/300/400 level
5. 0.5 credit in MGT at 400 level

Economics (5.0 credits):

1. ECO200Y5/ 204Y5/ 206Y5, ECO202Y5/ 208Y5/ 209Y5
2. ECO220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 258H5)/STA(257H5, 261H5)
3. 2.0 credits in ECO at 300/400 level, at least one credit must be from: ECO327Y5, 349H5, 365H5, 460H5, 461H5, 463H5

Writing Requirements: (2.0 credits) ANT204H5; CLA (except 201H5); one of (ECO322Y5 / 323Y5 / 333Y5 / 336Y5/ 344H5 / 369H5 / 373Y5 /399Y5/ 456H5); ENG; FAH; HIS; HPS(G); LIN; PHL (except 245H5, 246H5, 247H5, 344H5, 345H5, 346H5, 347H5); POL; RLG; SOC (excluding SOC300Y5); WRI

Writing courses must be in the English language.

Specialist Program ERSPE1815 Commerce and Finance: Human Resource Management (BCom)

This program leads to the Bachelor of Commerce degree.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite Courses:** ECO100Y5 (63%); MGT120H5 (63%); MAT133Y5/ MAT135Y5 (50%) in a minimum of 4.0 credits.
2. **Cumulative Grade Point Average (CGPA):** Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand.

Note: Transfer Credits: Students applying to Commerce with transfer credits must meet these requirements:

1. The CGPA must meet the cut off in a minimum of 4.0 credits taken at U of T Mississauga.
2. The combined CGPA of all courses taken at another institution plus U of T Mississauga courses must meet the minimum cut off for the year in which you are applying.

Application for admission to the program for all students is made during the Subject POST request period in April-May.

Enrolment in 200+ level MGT courses is restricted to students enrolled in the Commerce Programs.

First Year (3 credits): MGM101H5; MGT120H5; ECO100Y5; MAT133Y5/ 135Y5 (or equivalent)

Higher Years: Management: 7 credits

1. MGT220H5, 223H5, 262H5
2. MGT338H5, 339H5, 363H5, 460H5, 461H5, 463H5

3. 1.0 credit from: MGT252H5, 353H5, 371H5, 374H5, 393H5
4. 1.0 credit in MGT at 200/300/400 level
5. 0.5 credit in MGT at 400 level

Economics: 5 credits

1. ECO200Y5/ 204Y5/ 206Y5, ECO202Y5/ 208Y5/ 209Y5
2. ECO220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 258H5)/STA(257H5, 261H5)
3. ECO244Y5
4. 1.0 credits in ECO at 300/400 level

Writing Requirements: (2 credits) ANT204H5; CLA (except 201H5); one of (ECO322Y5/ 323Y5/ 333Y5/ 336Y5/ 344H5/ 369Y5/ 373Y5/ 399Y/456H5); ENG; FAH; HIS; HPS(G); LIN; PHL (except 245H5, 246H5, 247H5, 344H5, 345H5, 346H5, 347H5); POL; RLG; SOC (excluding SOC300Y); WRI

Writing credits must be in the English language.

Specialist Program ERSPE2380 Commerce and Finance: Marketing (BCom)

This program leads to the Bachelor of Commerce degree.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite Courses:** ECO100Y5 (63%); MGT120H5 (63%); MAT133Y5/ MAT135Y5 (50%) in a minimum of 4.0 credits.
2. **Cumulative Grade Point Average (CGPA):** Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand.

Note: Transfer Credits: Students applying to Commerce with transfer credits must meet these requirements:

1. The CGPA must meet the cut off in a minimum of 4.0 credits taken at U of T Mississauga.
2. The combined CGPA of all courses taken at another institution plus U of T Mississauga courses must meet the minimum cut off for the year in which you are applying.

Application for admission to the program for all students is made during the Subject POST request period in April-May.

First Year: (3 credits): MGM101H5, MGT120H5, ECO100Y5, MAT133Y5/ 135Y5 (or equivalent)

Higher Years:: Management: 6 credits

1. MGT220H5, 223H5, 252H5

2. MGT338H5, 339H5, 353H5, 452H5, 453H5, 455H5
3. 1.0 credit from: MGT262H5, 363H5, 371H5, 374H5, 393H5
4. 0.5 credit in MGT at 400 level

Economics: 5 credits

1. ECO200Y5/ 204Y5/ 206Y5, ECO202Y5/ 208Y5/ 209Y5
 2. ECO220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 258H5)/STA(257H5, 261H5)
 3. 2.0 credits in ECO at 300/400 level
- No more than 1.0 Economic History credit

Psychology: 1 credit

1. PSY100Y5

Writing Requirements:: (2 credits) ANT204H5; CLA (except 201H5); one of (ECO322Y5/ 323Y5/ 333Y5/ 336Y5/ 344H5/ 369Y5/ 373Y5/ 399Y/456H5); ENG; FAH; HIS; HPS(G); LIN; PHL (except 245H5, 246H5, 247H5, 344H5, 345H5, 346H5, 347H5); POL; RLG; SOC (excluding SOC300Y); WRI

Writing credits must be in the English language.

Higher Years:

1. ECO220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 248H5/ 258H5)/STA(257H5, 261H5)
2. MGT223H5, 220H5, 252H5, 338H5, 339H5
3. 1.0 credit from MGT330H5, 363H5, 371H5, 374H5, 393H5, or any 400 level MGT course.

Students without pre- and co-requisites can be de-registered from courses at any time.

Major Program ERMAJ1111 Commerce (Arts)

7.5 credits are required.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite Courses:** ECO100Y5 (63%); MGT120H5 (63%); MAT133Y5/ MAT135Y5 (50%) in a minimum of 4.0 credits.
2. **Cumulative Grade Point Average (CGPA):** Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand.

Note: Transfer Credits: Students applying to Commerce with transfer credits must meet these requirements:

1. The CGPA must meet the cut off in a minimum of 4.0 credits taken at U of T Mississauga.
2. The combined CGPA of all courses taken at another institution plus U of T Mississauga courses must meet the minimum cut off for the year in which you are applying.

Application for admission to the program for all students is made during the Subject POST request period in April-May.

First Year: MGM101H5; MGT120H5; ECO100Y5; MAT133Y5/ 135Y5 or equivalent

Communication, Culture and Info. Technology (HBA)

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Communication, Culture and Information Technology (CCIT) consists of interdisciplinary programs offered jointly by U of T Mississauga, Sheridan Institute of Technology and Advanced Learning and the U of T Faculty of Information:

- CCIT Major
- Digital Enterprise Management (DEM) Specialist
- Interactive Digital Media (IDM) Specialist

Upon completion of the first year of studies at U of T Mississauga, CCIT students take courses at U of T Mississauga and either U of T St. George or Sheridan

(Oakville Campus), depending upon the program in which they are enrolled. CCIT programs combine academic courses in the arts and sciences with hands-on applied courses in digital media and technology. The focus of the CCIT program is on the generation, diffusion, and social impact of new technologies, and how media and technologies interact with commerce, culture and communication. In addition to receiving an honours degree from the University of Toronto, CCIT students who successfully complete CCIT Major or DEM Specialist programs have the opportunity to obtain a Certificate in Digital Communications from the Sheridan Institute of Technology and Advanced Learning. Entry into the CCIT programs is limited and students are urged to read the program information in the calendar carefully and to consult the department. For more detailed information, refer to www.ccit.utoronto.ca.

Certificate in Digital Communication:

1. Students must take a total of 3.0 credits (2 half credits at the 200 level and 4 half credits at the 300 level) at Sheridan and complete the CCIT Major program in order to qualify for a Certificate in Digital Communications.
2. DEM students can fulfill the requirements for the certificate (with 1 half credit at the 200 level and 5 half credits at the 300/400 level) at Sheridan Institute.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CCT Communication, Culture and Information Technology (page 111)

Specialist Program ERSPE1307 Digital Enterprise Management (Arts)

Prepare for management roles in the digital age by developing a working knowledge of emerging technologies. Digital Enterprise Management (DEM) is a Specialist Program offered through Communications, Culture and Information Technology. Studies in DEM focus on the technologies comprising the Internet and the Web, which are transforming existing companies and providing fertile ground for the creation of new digital enterprises. Experts agree that such enterprises must be managed in fundamentally different ways from their industrial age precursors. This program explores this new managerial environment. Students will gain an understanding of the technologies that underlie digital businesses and the managerial challenges and techniques appropriate for being active and valuable participants in digital enterprises.

Within an Honours degree, 14.5 credits are required, including at least 1.0 credit at the 400 level.

Limited Enrolment – Enrolment in this program is highly competitive and will be limited as follows (meeting the minimum requirements does not guarantee admission):

1. Minimum 4.0 credits to include the following: CCT109H5, 110H5; MGM101H5, 102H5
2. Minimum Cumulative Grade Point Average (CGPA) determined annually and is limited to students who have a CGPA of at least 2.4
3. Minimum 63% in both MGM101H5 and MGM102H5
4. Minimum 65% average between CCT109H5 and CCT110H5, with at least 60% in each course.

Tuition fees for students enrolling in any CCIT Specialist/Major programs will be higher than for other Arts and Science programs.

Notes:

1. Students cannot combine the Digital Enterprise Management Program with either the Management Major Program or the Commerce Major program.
2. It is intended that students take CCT224H5, CCT324H5 and CCT424H5 in strict sequence.

First Year: CCT109H5, 110H5; MGM101H5, 102H5

Second Year: CCT206H5, 208H5, 224H5, 225H5, 226H5

Second and Higher Years: CCT260H5, 360H5, 404H5, 460H5

Third and Higher Years:

1. CCT319H5, 321H5, 322H5, 324H5, 345H5, 355H5
2. CCT401H5, 424H5; MGD421H5, 426H5, 428H5 and 0.5 credit from MGD415H5, 422H5, 423H5, 427H5, 429H5.
3. 2.0 credits from any 300/400 CCT level courses.

Specialist Program ERSPE2172 Interactive Digital Media (Arts)

Within an honour's degree, 10.5 credits are required.

Interactive Digital Media (IDM) is an interdisciplinary undergraduate program that is run jointly with the Faculty of Information (commonly known as the iSchool) at the University of Toronto. It provides students with a foundation in the generation, diffusion and critical analysis of the social impact of new and emerging technologies. In addition to learning how to analyze and use a variety of media tools, students will focus on digital media and its information communication infrastructures. Students will learn to design and create digital artefacts and create virtual environments suitable for collaboration, communication, learning and exploration. In the fourth year, students will be required to participate in an experiential learning based project relevant to their core interests.

In addition to the CORE courses, students will be required to take two modules, each module consists of 5 half courses. The modules are designed as integrated sets of courses providing students with the knowledge and skills relevant to specific areas of specialization.

The Knowledge Media Design module is designed to provide students with comprehensive knowledge and skills that are relevant for careers that involve the active and thoughtful design of content for knowledge media. These careers will span a range from traditional journalism through electronic publishing to the creation and management of knowledge media in traditional and digital organizations.

The Immersive Digital Media module is designed to provide students with the skills and knowledge for careers involving presentation, analysis, and immersive communication, utilizing data and information obtained from a wide variety of different media sources in a wide variety of formats. These careers span traditional business, web-based business, health care, education, and creative domains including gaming and simulation. Students will also be able to translate their skills and knowledge into performance environments.

Limited Enrolment – Students may apply to enrol after having completed this program's requirements in the first year with a grade of 65% in both CCT109H5 and CCT110H5. Students must have a minimum Cumulative Grade Point Average (CGPA) in a minimum of 4.0 credits in order to be accepted into the Specialist Program. The minimum CGPA is determined annually. It is never lower than 2.5.
Tuition fees for students enrolling in any CCIT Specialist/Major programs will be higher than for other Arts and Science programs.

Second Year: CCT206H5, CCT207H5, CCT213H5, CCT218H5, CCT219H5, CCT275H5

Third and Fourth Year: CCT301H5, CCT341H5, CCT413H5

+ 2 modules comprising:

Knowledge Media Design: CCT372H5, CCT374H5, CCT376H5, CCT414H5, CCT471H5

Immersive Digital Media: CCT385H5, CCT381H5, CCT382H5, CCT480H5, CCT481H5/ CCT482H5

Students without pre- and co-requisites can be de-registered from courses at any time.

Major Program ERMAJ1034 CCIT (Arts)

Within an Honours degree, 8.0 credits are required including at least 4.0 at the 300/400 level. Program must be taken in combination with another major or two minors.

Limited Enrolment – Admission is based on academic performance (CGPA) in a minimum of 4.0 credits that must include CCT109H5, 110H5. Enrolment in this program is determined annually and is limited to students who have a CGPA of at least 2.0.
Tuition fees for students enrolling in any CCIT Specialist/Major programs will be higher than for other Arts and Science programs.

First Year: CCT109H5, 110H5 (1.0 credit required)

Second Year: (3.0 credits required)

1. CCT206H5, 208H5, 210H5 and one other 200 level CCT/VCC course taught at UTM.
2. 1.0 credit from CCT200H5, 204H5, 205H5, 260H5 (Courses taught at Sheridan).

Third and Higher Years: (4.0 credits)

Minimum of 4 half credit CCT courses taught at Sheridan and 4 half credit courses taught at U of T Mississauga from any 300/400 level CCT/HSC/MGD/VCC course. One of these half credits must be at the 400 level.

Note: Students enrolled in the CCIT Major may not enrol in CCT designated courses that are specific to the Digital Enterprise Management Specialist program.

Note: 300/400-level CCT/MGD courses are restricted to students in CCIT programs only.

Students without pre- and co-requisites or written permission of the CCIT Director can be de-registered from courses at any time.

First Year: CCT109H5, CCT110H5

List of Courses

(SH) Denotes courses taught at Sheridan Institute of Technology and Advanced Learning

(DEM) Denotes courses where priority registration is given to students in the Digital Enterprise Management Program.

CCT109H5 Contemporary Communication Technologies (SSc)

This course examines different information and communication technologies (ICTs) through the analysis of such genres as contemporary written, visual, oral, electronic and musical forms. It illustrates a range of theoretical perspectives that seek to explain the relationship between communication and technology. This course will also examine, briefly, the history of ICTs. [24L, 12T]

CCT110H5 The Rhetoric of Digital and Interactive Media Environments (SSc)

This course critically examines the written, visual, aural, and dynamic rhetoric as it pertains to communications for academic and other purposes across a range of digital and interactive media discourses. [24L, 12T]

Prerequisite: CCT109H5

CCT200H5 Intercultural Communication (SH) (SSc)

The route to global cooperation or global collision. This course will use a case-based approach to the study of the impact of globalization and information technologies on the formulation of relationships between people of diverse racial, ethnic, national, linguistic, and religious backgrounds. The challenges that globalization, new information and communication technologies present to traditional, culturally bound beliefs and values. The critical function of socio-cultural, socio-psychological, and historical variables in the creation of belief and value systems. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT204H5 Design Thinking I (SH) (SSc)

An introduction to the basic concepts and skills of design thinking as an interdisciplinary subject. Emphasizes creative and critical thinking in the design process; provides the student with the theory and operational skills necessary to solve design problems in the realms of symbolic and visual communication, material objects, environments, and organized services and activities. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT205H5 Digital Innovation and Cultural Transformation (SH) (SSc)

An examination of the problems caused by the introduction of digital and computing technologies to modern culture. Topics range from the social and cultural outcomes of media convergence; effects of the digital revolution in communications technologies; the impact of miniaturization on the application of computing technologies; the relevance of virtual environments; the interplay between pre-industrial, industrial and information cultures. [24L, 12T]

Prerequisite: CCT109H5, CCT110H5/ CCT100H5, 101H5

CCT206H5 Law, Technology and Culture (SSc)

This course will provide a detailed review of copyright, trademark and patent law with a special emphasis on how they apply to digital media. This course will also review the law of contract as it applies to digital industries and investigate the relevant tort law. In addition, other regulatory issues will be discussed such as telecommunications and broadcasting law both from a Canadian and an international perspective. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

Formerly *Intellectual Property and Copyright*

CCT207H5 Design Fundamentals (SSc)

The communication of information must be designed and this course investigates the methods and processes for doing this. It studies the principles and practices of design and the ways of thinking and working that produce innovative approaches, solutions, and services. The course highlights the processes of creative and critical thinking in exemplary design and offers students foundational theoretical and practical frameworks.

Prerequisite: CCT109H5, CCT110H5

CCT208H5 Writing & Research Methods in Communication (SSc)

The course is a critical survey of theory and research in the field of communications. A central goal of the course is to train students to write effectively about theoretical and research issues. Assessment will be based on written assignments. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT209H5 Foundations of Information Studies (SSc)

(Formerly ERI203H5) Drawing upon conceptual foundations in information studies this course provides an introduction to information and scholarly research including theoretical frameworks for the organization of information, critical strategies for acquiring, evaluating and communicating information, and the ethical and legal obligations of using information. [24L, 12T]

Exclusion: ERI203H5

CCT210H5 Signs, Referents, and Meaning (SSc)

How written or spoken statements, gestures, and aesthetic objects come to have meanings. How we recognize and fail to recognize such meanings. The nature, systems, and processes of interpretation. The role of mental models. [24L, 12T]

Exclusion: VIC120Y1

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT213H5 Meaning and Interpretation (SSc)

In everyday life we encounter a diversity of objects, written and spoken texts, gestures and virtual entities; they are all signs laden with layers of meaning. Developing a capacity to investigate the meaning of signs, to unpack the relationships between signs, to determine what they stand for, and to situate the people (and systems) who eventually interact with them is foundational. This course examines signs and their relations to meaning and investigates how entities acquire meanings and the processes by which we perceive (or fail to perceive) these meanings. It provides a background in and approach to interpretation to understanding signs.

Prerequisite: CCT109H5, CCT110H5

CCT218H5 Introduction to Digital Culture (SSc)

This course provides an opportunity for students to develop an understanding as to how digital media is transforming society and shaping a fluid digital culture. It provides students with the ability to understand the way digital technologies are reconfiguring conceptions of representation, community, gender, identity, location, space, and social and cultural narrative and meaning making. The process by which information technology creates new relationships, communities, and identities is explored. During the course students acquire the ability to examine the cultural and social contexts of technological change and gain an awareness of the different critical methods for studying digital culture and communities. [24L, 12T]

Prerequisite: CCT109H5, CCT110H5

CCT219H5 Culture Change and Innovation (SSc)

Digital technologies have reshaped modern culture. These technologies have been disruptive and they have been transformative to the shape of contemporary society. They have reshaped how we create, communicate, and work. The course explores these changes and the processes that brought them about. [24L, 12T]

Prerequisite: CCT109H5, CCT110H5, and CCT218H5

CCT220H5 Semiotics and Communication Theory (SSc)

A study of the systems and processes of verbal and non-verbal communication through the science that investigates the comprehension and production of signs. Sign systems in a variety of contemporary modes and genres (language, literature, cinema, advertising, the media, art, and gestures) will be scrutinized through the works of major semioticians such as Barthes, Eco, Greimas, Morris, Sebeok, among others. Their research will be discussed and applied to various types of representation and communication, from magazine ads to high art. [24L, 12T]

Exclusion: VIC120Y1

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT224H5 Performance Assessment (DEM) (SSc)

This course will investigate measurement issues relating to managing digital enterprises. It will build on the accounting studied in MGM101H5 but will be a more extensive investigation of the variety of measures that are necessary to provide all the stakeholders in a digital enterprise with useful decision-focused information. The use of this information to direct and control the organization will also be discussed. [24L, 12T]

Prerequisite: MGM101H5

CCT225H5 Information Systems (DEM) (SSc)

This course has been designed to provide students with a basic understanding of the role of computers and communication systems in modern organizations. Unlike programming courses, the focus here is on the application of computer-based systems to support information requirements for problem solving and managerial decision-making. Topics include concepts of information, humans as information processors, survey of hardware and software applications, introduction to information systems analysis and design. [24L, 12T]

Exclusion: CCT325H5; MGM371H5; MGT371H5

Prerequisite: MGM101H5; CCT224H5

CCT226H5 Data Analysis I (DEM) (SSc)

This course introduces students to the basic tools of data analysis, most particularly statistics and modeling that are critical for subsequent courses in Marketing and Data Analysis II. Students are introduced to basic principles of descriptive and inferential statistics with a focus on the types of data that they will typically encounter in a digital environment. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5; MGM101H5, 102H5

CCT260H5 Web Culture and Design (SH) (SSc)

The course will explore how the web has influenced culture and how websites are designed and managed. Topics will include the presentation of text, graphics, audio and video on the web. Design, web server concepts, human communication systems and organizational contexts will be considered in creating web sites using scripting languages and web software tools. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT275H5 An Introduction to Surveillance Studies (SSc)

From the Orwellian Big Brother to Foucault's panopticon, surveillance has become an everyday facet of modern life. From a Surveillance Studies perspective surveillance can be applied as a framework for understanding social, political, and technological interrelationships. This framework can help us study more effectively power, identity, and control associated with the spread of Information Communication Technologies (ICT's). This course will introduce students to viewpoints, vision and visibility in Surveillance Studies. The class will look at a range of topics from information politics, identification, privacy, security, suspicion, social sorting, bodies, borders and biometrics to explore a range of perspectives under the Surveillance Studies umbrella. The class will introduce students to key issues surrounding data, discrimination, and visibility in a global context to uncover the watched world. [24L, 12T]

Prerequisite: CCT109H5, 110H5

CCT300H5 Critical Analysis of Media (SH) (SSc)

Analytical methods and theoretical concepts from communication and rhetoric will be applied to the analysis of contemporary media (art, film, television, journalism, advertising, and web documents). [24L, 12T]

Prerequisite: CCT210H5

CCT301H5 Design for Online Cultures (SSc)

This course builds upon the concepts introduced in CCT218H5, Introduction to Digital Culture, through an exploration of the design and development of online information services (e.g. websites, digital libraries). It examines the standards, modeling approaches, and methods for testing. Students will experiment with different approaches to design of websites or other online services for different types of delivery devices (e.g. desktops, mobiles). [24L, 12T]

Prerequisite: CCT213H5

CCT305H5 Design and Implementation of Multimedia Documents (SH) (SSc)

The principles and techniques of user-centered, functional design are introduced and applied to the analysis of software interfaces and the creation of multimedia documents. The roles of shared metaphors and mental models in clear, concise and usable designs are emphasized. Students will produce multimedia documents, which make effective use of text, colour, user input, audio, still, and time-based images. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT307H5 Conversational Structures (SCI)

Conversation appears to be a species-distinctive and universal form of social interaction among human beings. Moreover, with slight tweakings or adjustments, conversational interaction is a basic form of social organization through which the work of most, if not all, the major institutions of societies – the economy, the polity, the family, the law, socialization, etc. – gets done. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT310H5 Mass Communication and Popular Culture (SSc)

How does consumerism affect symbolic production, circulation and transactions? Major modern theories of mass communication will be presented (Althusser, Frankfurt school, and Marxist approaches). Students will become conversant with the structure of mass communication, popular culture systems, and their economic, technological and institutional dimensions. Possible topics are Disney, serial novels, comic books, mall design, Hollywood, radio, corporate and private Internet sites. [24L, 12T]

Prerequisite: CCT210H5

CCT311H5 Introduction to Game Design and Theory (SH) (SSc)

This course will address the principles and methodologies behind the rules and play of games. The lectures and practical work will foster a solid understanding of how games function to create experiences, including rule design, play mechanics, game balancing and the integration of visual, tactile, audio and textual components into games. [24L, 12P]

Prerequisite: Minimum of 8.0 credits to include CCT109H5, 110H5/ CCT100H5, CCT101H5

CCT312H5 Interactive Story Telling for Game Development (SH) (SSc)

This course will address traditional storytelling and the challenges of interactive narrative. Students will develop a solid understanding of traditional narrative theory as well as experimental approaches to storytelling in literature, theatre and film with relevance to game development. [36L]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5; CCT200H5.

CCT314H5 Representation in Language, Mind and Art (HUM)

This course will examine philosophical questions surrounding the nature of representation in language, mind and art. Questions to be examined include: How can one thing represent something else? What is the difference between representation by words and representation by pictures? Do we think in a "language of thought"? [24L, 12T]

Prerequisite: Minimum of 8.0 credits in which 2.0 credits must be from any course in CCT/VCC/HSC/PHIL/LIN.

CCT315H5 Theory of Linguistic Communication (HUM)

A philosophical introduction to the conceptual foundations of the theory of linguistic and non-linguistic meaning and communication. What is communication? How do animals communicate? What is special about language?

Prerequisite: Minimum of 8.0 credits

CCT316H5 Communication and Advertising (SSc)

A study of theories in communication and meaning with different reference to advertising, advertising messages, and advertising management. [24L]

Prerequisite: CCT210H5

CCT319H5 Economics and the Digital Firm (DEM) (SSc)

This course presents economic principles that explain how markets help organize exchange and production among competing but nevertheless cooperating economic units. Theories of consumer demand, the economic nature and function of business firms, optimal business decision rules of monopoly, oligopoly, and anti-combines regulations, as well as game theory, are presented. Efficiency criteria pertaining to the operation of firms and markets, the role of property rights, and the scope for public policy, are also examined. [24L, 12T]

Exclusion: ECO100Y5

Prerequisite: CCT224H5; MGM101H5, 102H5

CCT321H5 Foundations of Finance and Financial Management (DEM) (SSc)

This course will provide the students with an understanding of investment appraisal from a financial standpoint. It will provide them with the necessary tools to construct the financial component of a business plan or analyze the financial performance of a company. Financial markets and the venture capital market will also be investigated as will the principles of valuation. Focus will be on case studies relating to digital enterprise. [24L, 12T]

Exclusion: MGM230H5; MGT230H5, 331Y1, 337Y5

Prerequisite: CCT224H5; MGM101H5, 102H5

CCT322H5 Marketing Information Products and Services (DEM) (SSc)

Techniques for developing a comprehensive marketing strategy will be developed with particular emphasis on digital products and services. The nature of digital markets, approaches to advertising, pricing and such areas as versioning will also be discussed. [24L, 12T]

Exclusion: MGM252H5; MGT252H5, 352H5

Prerequisite: MGM101H5; CCT224H5

CCT324H5 Organizational Theory and Behaviour (DEM) (SSc)

Overview of individual and group behaviour in organizations, including motivation, communication, decision making, influence and group dynamics. Examination of major aspects of organizational design including structure, environment, technology, goals, size, inter-organizational relationships, innovation and change. [24L, 12T]

Prerequisite: CCT224H5; MGM101H5, 102H5

CCT326H5 Communication across the Lifespan (SSc)

Changes in communication from infancy to old age arise from changes in perception and cognition, as well as changes in social and environmental needs and supports. These changes will be characterized and related to relevant theories. Practical implications for information and communication technologies will be suggested.

Prerequisite: PSY100Y, CCT204H5, 210H5

CCT333H5 Imagining Audience in a Wired World (SH) (SSc)

All forms of cultural and media expression are created for imagined audiences. The nature and role of audiences will be explored across multiple media. Broadcast models, interactive models, live audience, audience reading, gender, culture, and audience feedback are explored. How do we define our audience in a wired world? [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT335H5 Technology and the City (SH) (SSc)

Technology continues to reshape the physical contours of our built environments as much as it redefines our conceptualization of how we inhabit and interact within them. This course investigates how urban form, space, infrastructure and communication are mediated by new and evolving technologies. [24L, 12T]

Prerequisite: CCT200H5 or 205H5

CCT341H5 Collaborative ICT Project (SSc)

Increasingly work projects and work teams are spread across geographic boundaries and collaboration must be mediated. Computer Supported Collaborative Work (CSCW) is a major area of design and research across many disciplines and contexts. This class takes a theoretical and practical approach to computer supported collaboration by placing students in interdisciplinary teams across traditional geographic boundaries. The class will be focused on project based learning and will look at key literatures in CSCW and project management. [24L, 12T]
Prerequisite: CCT207H5 and CCT218H5

CCT345H5 Developing and Managing Networks (SH)(DEM) (SSc)

This course introduces students to the central technical concepts necessary to understand how networks are developed and operated. Specific attention will be paid to the Internet and Local Area Networks. Students will also study how networks may be managed with particular emphasis on the risks associated with different types of networks and approaches that may be adopted to mitigate them. [24L, 12T]

Prerequisite: CCT224H5, 225H5/ 325H5

CCT351H5 Theory and Practice of Animation (SH) (SSc)

This course introduces the student to the history of animation from the earliest exploration of the animated image in the early 1900's to the most current computer, traditional and web-based practices. This course will focus on important stylistic, narrative and technological developments. [24L, 12T]

Prerequisite: CCT353H5

CCT352H5 History and Practice of Design (SH) (SSc)

This course examines the historical development of communication design from the industrial revolution to the present. The student will focus on the emergence of design practice and theory in changing economic, technological and social contexts. [24L, 12T]

Prerequisite: CCT204H5

CCT353H5 Digital Media: Movement and Sound (SH) (SSc)

This course will explore the theoretical and practical aspects of producing narrative time based imagery within a digital environment. The conceptual and digital tools as well as workflows and delivery systems that have been developed to produce images will be explored. [24L, 12T]

Prerequisite: CCT109H5, CCT110H5/ CCT100H5, 101H5

CCT355H5 E-Business Technologies (SH)(DEM) (SSc)

Students will study technologies that are essential to the successful establishment of e-business. Students will be introduced to approaches to the processing and management of payments, security and privacy issues, and the technical aspects of Digital Rights Management. [24L, 12T]

Prerequisite: CCT224H5, 225H5/ 325H5

CCT356H5 Online Advertising and Marketing (SH) (SSc)

This course investigates the industrial practices and tools of effectively marketing and promoting goods and services online. Topics include analysis of contemporary online advertisement design, the effective use of social media technologies in product marketing, planning online campaigns that reinforce and complement existing marketing and advertising efforts, and understanding key metrics used to evaluate a campaign's effectiveness. [24L]

Prerequisite: CCT260H5

CCT357H5 Digital Media: The Still Image (SH) (SSc)

This course will explore the theoretical and practical aspects of producing theme based single and sequential imagery within a digital environment. We will explore the conceptual and digital tools as well as workflows and delivery systems that have been developed to produce images. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT360H5 Intermediate Web Design (SH) (SSc)

This course builds upon the concepts introduced in Web Culture and Design and expands upon them to include the theory and practical aspects of creating modern, compliant standards for websites. Its focus is primarily on the design and presentation of websites on the client side. Students will learn how to develop websites for consumption on various platforms including desktop browsers, mobile devices, etc. [36L]

Prerequisite: CCT260H5

CCT361H5 New Instructional Technologies and Learning Environments (SSc)

With rapid increases in globalization and multiculturalism, instructional technologies for language learning are becoming increasingly relevant (i.e. government ministries, education, and business sectors). This course investigates and evaluates the impact of new technologies on education, and serves as an initiation into current methodologies for instructional technologies and language learning. The focus is on practical ways of designing a learning environment so as to enhance the teaching and learning of language, linguistics, literature, and culture. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT372H5 Knowledge Media Design: Contexts and Practices (SSc)

Knowledge media are systems incorporating computer and communications technology that enhance human thinking, creativity, communication, collaboration, and learning. This course reviews the emerging field of knowledge media design and the use of digital media for communication, collaboration, and learning. The course includes topics in human-centred design; knowledge media technologies; social implications of knowledge media; examples and applications of knowledge media; and the future of knowledge media, and is organized via themes of design, media, and knowledge. [24L, 12T]

Prerequisite: CCT210H5

CCT374H5 Technologies of Knowledge Media (SSc)

The course covers understanding the context in which knowledge media are introduced, understanding the team, group, or work setting for designing collaborative knowledge media. We also explore different techniques for understanding and designing for the individual who uses or engages with knowledge media. Techniques and tools are drawn from a range of design perspectives including traditional user centered design, participatory design, engineering, and industrial design. The appropriateness of each technique and tool for different design problems and settings is discussed and the course concludes with an examination of the development of new techniques and tools for new design challenges. [24L, 12T]

Prerequisite: CCT372H5

CCT375H5 Immersive Virtual Environments and Multimodal Interfaces (SSc)

This course will cover the theoretical, methodological, and empirical issues in the study of immersive communication environments including Virtual Reality and Mixed or Augmented Reality. In immersive virtual environments users do not typically utilize traditional input devices. Consequently we will examine the importance of multimodal interfaces that produce more robust human-machine interfaces and better satisfy user preferences. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT376H5 Introduction to Modelling Information (SSc)

The analysis and modelling of information is key to being able to develop appropriate information architectures for organizations in particular and society as a whole. Students explore the modelling and analysis of information from a conceptual, technical and practical perspective. [24L, 12T]

Prerequisite: CCT372H5

CCT377H5 Applied Perception: Image and Sound Processing (SCI)

This course will emphasize the theoretical, methodological, and empirical issues in the study auditory and visual signal processing and signal compression. These issues will be examined and illustrated in the context of the requirements of communications applications such as in flight, medical and driving simulators, virtual reality, remote piloting and teleoperation, infrared and indirect vision, image transmission and image retrieval, telemedicine, video teleconferencing, robotics and artificial vision systems. Related human factors and psychophysical research would be explored. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5; CCT202H5; PSY100Y5

CCT380H5 Human-Computer Interaction and Communication (SSc)

The emphasis in this course will be on theoretical, methodological, and empirical issues in the study of Human-Computer Interaction. Intelligent interface designs, usability assessment, user modeling and the accessibility of the technology for the disabled are among the topics to be examined. Related behavioural investigations concerning the ease and efficiency of users' interactions with computerized environments will also be discussed. [24L, 12T]

Prerequisite: CCT109H5, 110H5/ CCT100H5, 101H5

CCT382H5 Edutainment: Immersive Learning (SSc)

In this course, students will be introduced to Multimedia Knowledge Management by working on and building a prototype of an educational interactive knowledge game. Addressing issues of Digital Media design, students in collaborative groups will develop and/or employ appropriate research methodologies, read relevant material to design the game flow, create characters, and design storyboards / wireframes. Students will identify an educational need, define requirements, and develop a web-based interactive game to meet them. Students will conduct iterative usability testing and finally build a website featuring their semi-functional prototype. The course does not require programming experience, but a familiarity with web design, image rendering, and animation software could be an asset. [24L, 12T]

Prerequisite: CCT380H5

Corequisite: CCT380H5

CCT383H5 Digitally Mediated Communication (SH) (SSc)

The course will examine the positive and negative effects of communication technology on the performance of communicators, psychological well-being and social interaction and how these effects may vary over the lifespan and for those in special populations in the contexts of work, education, housing, health care and access to public facilities. [24L, 12T]

Prerequisite: CCT100H5 and CCT101H5

Formerly *Digitally Mediated Technologies: Lifespan and Special Population Issues*

CCT384H5 Universal Design and Access (SH) (SSc)

The course will examine the positive and negative effect of the built and social environments on communication performance, psychological well-being and social interaction and how these effects may vary over the lifespan and for those in special populations in the contexts of work, education, housing, health care and access to public facilities. [24L, 12T]

Prerequisite: CCT100H5 and CCT101H5

Formerly *Digitally Mediated Environments: Lifespan and Special Population Issues*

CCT389H5 An Introduction to Immersive Environments (SSc)

Innovative user interfaces and powerful information technology services enable individuals to construct and immerse themselves in virtual environments. This course investigates different types of immersive technologies. This is a domain of artistic, scientific, and commercial experimentation and exploration. Students will also be exposed to a variety of these technologies both from a conceptual and a practical perspective; they will explore questions of representation, perception, consciousness, and behaviour. Through the course the students will have an opportunity to appreciate the process of defining, creating, experiencing and evaluating immersive environments. [24L, 12T]

Prerequisite: CCT210H5, CCT218H5

CCT390H5 Field Experiences in CCIT (SSc)

An opportunity to confront current debates in CCIT through field experience. The type of field experience varies from year to year, but may involve travel and participation in international conferences or other relevant activities. Students are responsible for travel expenses. [36S]

Prerequisite: CCT210H5 or P.I.

Formerly *Contemporary Issues in CCIT*

CCT395H5 Topics in Communication, Culture and Information Technology (SSc)

An in-depth examination of selected topics in communication, culture and information technology. Topics vary from year to year, and the content in any given year depends upon the instructor. [24L]

Prerequisite: Minimum of 8.0 credits

CCT399Y5 Research Opportunity Program (ROP) (HUM,SSc,SCI)

This course provides an opportunity for third or higher year students to assist with the research project of a professor in return for 399Y course credit. Students have an opportunity to become involved in original research and enhance their research skills. Participating faculty members post their project description for the following summer and fall/winter session on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Exclusion: CCT299Y5, VCC399Y5

Prerequisite: A minimum of 10.0 credits

CCT400H5 Advanced Project (SSc)

Majors and specialists are given the opportunity to develop a critical perspective on selected issues in CCIT. Students design and implement an advanced project on a topic of interest by engaging with advanced readings. A central aim is to refine the skills in critical analysis and in oral and written communication. [24S]

Prerequisite: completion of 13.0 credits

CCT401H5 Supervised Reading Course (SSc)

A student initiated reading and research course carried out under the supervision of a faculty member. Students will carry out a research project on a selected topic of their choice which is related to Digital Enterprise Management. Students must obtain permission from the faculty member who they would like to have as their supervisor.

Exclusion: CCT405H5

Prerequisite: Completion of 13.0 credits. Student must obtain written approval of the supervising faculty member and the co-ordinator of the DEM program before enrolling.

CCT404H5 Integrative Design Project (SSc)

This project-based course aims to demonstrate how design principles can be creatively applied to solving problems in areas as varied as business, health care delivery, urban planning and development. Students will study current thinking and practice in design-based approaches to problem solving through seminars, field-based research and a major integrative project. This course is particularly appropriate for DEM and VCC specialist students. [36L]

Prerequisite: A minimum of 13.0 credits.

Recommended Preparation: CCT204H5

CCT405H5 Individual Project (SSc)

A research project carried out under the supervision of a faculty member. Students will carry out a research project on a selected topic related to CCIT. Students must obtain signed permission from the faculty member who they would like to have as their supervisor.

Exclusion: CCT401H5

Prerequisite: Completion of 13.0 credits and CCT400H5 (Advanced Project)

Enrolment is limited

CCT409H5 Special Topics in Work-Based Learning (SSc)

An advanced unpaid field placement working on specially designed projects that explore collaborative, collective and global approaches to practical knowledge application. The placements may include international internships, collaborative group internships and community-based initiatives. The projects may vary from year to year depending on the external partners. Students will engage with others in the course through an online class component and complete individual reports and critical evaluations of the work experience.

Exclusion: CCT411H5

Prerequisite: Minimum 13.0 credits and minimum CGPA of 2.5.

CCT410H5 CCIT Internship I (SSc)

This course is a practical internship and is available only upon application from students registered in any CCIT program. Through a placement, students will apply the expertise in communication, culture, and information technology that they have gained through previous courses. Students must plan well in advance for the placement and work closely with the placement officer for CCIT to determine eligibility and suitability. A report and presentation will be required at the end of the placement. These, along with the employer's assessment, will provide the main part of the course mark.

Prerequisite: Completion of 13.0 credits; minimum CGPA 2.5; and permission of internship coordinator.

CCT411H5 CCIT Internship II (SSc)

This course is a practical internship and is available upon application from students registered in any CCIT program who have completed CCT410H5. The course is intended for students who have the opportunity to continue their CCT410H5 internship for a second semester. A report and presentation will be required at the end of the placement. These, along with the employer's assessment, will provide the main part of the course mark.

Prerequisite: Completion of 13.0 full credits including CCT410H5, minimum cumulative grade point average of 2.5 and permission of internship coordinator.

CCT412H5 Self-Directed Research Project: Advanced Studio Practices (SH) (SSc)

This course facilitates a student-led research project to be carried out under the supervision of a faculty member. This is an opportunity to develop a critical and practical perspective on selected issues and practices within CCIT. Students design and implement an advanced project on a topic of interest using advanced creative and critical production skills. The aim is to redefine and articulate critical ideas through the process of making creative work. Students must obtain signed permission from a potential supervising faculty member.

Prerequisite: 1.0 credit from CCT305H5/ 351H5/ 353H5/ 357H5/ 360H5

MGD415H5 E-Business Strategies (SSc)

Electronic business, the extensive use of the web and the Internet, is radically changing existing businesses. New Internet businesses are also being created at an unprecedented rate. New business models, e-business technologies, payment mechanisms, legal and regulatory issues (e.g., intellectual property rights, privacy and security) and the economics of e-business will be investigated from a research and practical perspective. [24L, 12T]

Exclusion: MGT415H5, 471H5

Prerequisite: CCT225H5 (or equivalent), CCT355H5; MGM101H5 (or equivalent)

CCT415H5 Theory of Perception (HUM)

An exploration of conceptual issues in perception. What do we perceive, and how? How does perceptual experience give us knowledge of the world? These questions are investigated in their methodological, historical, and ontological dimensions, primarily from a philosophical perspective.

Prerequisite: 13.0 credits including a minimum 1.0 VCC/PHL credit.

Recommended Preparation: CCT357H5; FAH391H5

MGD420H5 Global Digital Industries (SSc)

The nature of digital industries will be investigated. The structure and dynamics of various industries, and how they interact with each other, will be emphasized. Topics covered include industries related to traditional media, entertainment, software and other new media. A global perspective will be adopted in this course. [24L, 12T]

Prerequisite: CCT321H5 (or equivalent), 322H5 (or equivalent), 324H5 (or equivalent); MGM101H5 (or equivalent)

CCT420H5 Information Technology and Globalization (SSc)

The variety of ways in which various information technologies influence and are influenced by globalization will be critically examined. The class will explore metaphors or ways of thinking about society and technology to critically examine the complex process and the diverse consequences of globalization. Topics may shift focus yearly but will include the economy, culture, politics, social movements, migration, social identity, war and global conflict, etc.

Prerequisite: Completion of 13.0 credits and Professor Approval.

MGD421H5 Technological Entrepreneurship (SSc)

This course considers the role of entrepreneurship in society and the process of initiating and developing a new business venture. Topics include entrepreneurial behaviour, characteristics of entrepreneurial teams, evaluation of new ventures, correlates of success, the business plan, growth strategies, venture capital and financing. [24L, 12T]

Prerequisite: CCT321H5/ MGM230H5, CCT322H5/ MGM252H5, CCT324H5/ MGM300H5; MGM101H5.

MGD422H5 Management of Technological Innovation (SSc)

Technological innovation involves the application of knowledge to create new products, services and organizational processes. This course examines technological innovation from an organizational and strategic perspective. Topics include organizational conditions for innovation, development of organizational knowledge and capabilities, new product development, technological change and evolution, integration of R & D and firm strategy, technology alliances and joint-ventures. [24L, 12T]

Prerequisite: CCT321H5/ MGM230H5, CCT322H5/ MGM252H5, CCT324H5/ MGM300H5; MGM101H5

CCT423H5 Game Development Project (SH) (HUM,SSc)

This course will provide the opportunity to develop a practical understanding of the game development cycle. Students will design and develop an original game in support of a specific narrative, set of rules or play mechanics. [24L, 12P]

Prerequisite: CCT311H5 or CCT312H5

MGD423H5 Technology in Organizations (SSc)

This course is designed to give students an appreciation of the technology and management issues surrounding the development and use of information technology in organizations. Main themes emphasized are understanding: 1) information technology and its role in organizations; 2) how managers gain a competitive advantage by using information technology; and 3) how they use information technology to redesign their organizations and industries. [24L, 12T]

Prerequisite: CCT321H5/ MGM230H5, CCT322H5/ MGM252H5, CCT324H5/ MGM300H5, CCT325H5/ CCT225H5/ MGM371H5; MGM101H5

CCT424H5 Strategic Innovation (DEM) (SSc)

An indepth study of the development of innovative strategies for organizations with an emphasis on digital enterprises. The nature of strategic innovation will be studied and a variety of analytic frameworks introduced. Concepts will be explored through a combination of lectures and case studies. [24L, 12T]

Exclusion: MGT400H5; MGM400H5

Prerequisite: CCT321H5, 322H5, 324H5; MGM101H5, 102H5

MGD425H5 Macroeconomics and the Knowledge Economy (SSc)

This course will introduce basic macroeconomics concepts such as national income and its determination, monetary and fiscal policy, comparative advantage, international trade and foreign exchange fluctuations. Issues relating to macroeconomic aspects of the knowledge economy will also be addressed. [24L, 12T]

Exclusion: ECO100Y5

Prerequisite: CCT319H5 (or equivalent), 321H5 (or equivalent), 322H5 (or equivalent), 324H5 (or equivalent); MGM101H5 (or equivalent)

MGD426H5 Risk Management for Digital Industries (SSc)

This course will address the identification and management of risks that are specific to digital industries such as network penetration, transaction processing interruption and flow disruption, provision of audit and backup facilities. The course will also integrate technical security issues along with managerial and legal considerations. [24L, 12T]

Prerequisite: CCT319H5, 321H5, 322H5, 324H5; MGM101H5.

MGD427H5 Advanced Legal Issues (SSc)

This course will build on the foundations established in CCT206H5. Issues relating to the protection of digital rights, taxation, privacy, jurisdiction and regulation will be examined in detail through the use of recent legal scholarship and evolving case law. [24L, 12T]

Exclusion: JGM291H5; MGM290H5; MGT290H5, 393H5, 394H5, 423H5, 429H5

Prerequisite: CCT206H5 (or equivalent); MGM101H5 (or equivalent)

MGD428H5 Project Management (SSc)

Approaches to the management of complex technical projects will be investigated. Topics include project estimating, costing and evaluation, organizing and managing project teams, quantitative methods for project planning and scheduling, introduction to computer-based project management tools. The course may involve an applied field project. [24L, 12T]

Exclusion: MGD328H5

Prerequisite: CCT324H5 (or equivalent), 225H5/ 325H5 (or equivalent); MGM101H5 (or equivalent)

MGD429H5 Data Analysis II (DEM) (SSc)

This course builds on CCT226, Data Analysis I, focusing mainly on the data analysis and management in a database context. Topics covered include behavioural modeling, click stream analysis, Web traffic analysis and other modeling and analysis topics that are relevant in a digital context.

Prerequisite: CCT226H5, 322H5

CCT434H5 Design Thinking II (SH) (SSc)

An advanced seminar on the rhetoric of design thinking. Combining research and methodologies of a visionary nature, a variety of design and advocacy projects are examined, prototyped and/or implemented. This course embraces design as a tool of activism and applies more in-depth theories and integrated principles, such as sustainability, futures-thinking, values-based design, and metadesign. [36L]

Prerequisite: CCT204H5

CCT441H5 Online Collaborative Project Management (SSc)

Information Communication Technologies have facilitated a perceptible change in collaborative practices across geographically dispersed teams and projects. Therefore, Computer Supported Collaborative Work (CSCW) is, increasingly, a major area of design and research across many disciplines and contexts. This class takes a theoretical and practical approach to computer supported collaboration by placing students in interdisciplinary teams spread across traditional geographic boundaries. The class covers topics which include: organizing and managing project teams, quantitative methods for project planning and scheduling, introduction to computer-based project management and collaboration tools. The class will be focused on project based learning and will look at key literatures in CSCW and project management.

Prerequisite: Minimum 13.0 credits and minimum CGPA of 2.5.

CCT451H5 Advanced Audio Production (SH) (HUM)

This course explores how to design and produce a soundtrack for film or television. The foundations of technical theory and nomenclature will be provided, as well as aesthetic guidelines. Practical exercises will explore: voice recording, use of library sound effects, creative sound design, sound editing and processing technology and soundtrack mixing. [24L, 12P]

Prerequisite: CCT353H5

Recommended Preparation: CCT343H5

CCT452H5 History and Practice of Design 2 (SH) (SSc)

This course will continue from where History and Practice of Design leaves off; from the beginning of the Post-Modern period or c.1975. It will study the history of graphic design to the present in roughly chronological order; it will focus on specific topics rather than on movements, schools or chronological events. Topics will highlight how social trends, political forces, technological innovation and continuing folk traditions all contribute to the visual environment we all inhabit today. Topics will emphasize popular culture as a force shaping graphic design while also referring to a theoretical graphic design discourse. [36L]

Prerequisite: CCT204H5, CCT352H5

CCT453H5 Advanced Video Production (SH) (HUM)

This course focuses on advanced theoretical and practical aspects of video production and editing. Storytelling techniques, the relationship of form to content, and montage strategies will be investigated. Over the course of the term students will work in teams to direct, film and edit video using digital technologies. [48L]

Prerequisite: CCT353H5

CCT454H5 Theory and Practice for Documentary Film Making (SH) (HUM)

This course explores the practice, aesthetic and theory surrounding the subject of documentary as a form. Objectivity, ethics, censorship, representation, reflexivity, responsibility to the audience and authorial voice will be examined. Students will engage in preparatory practical exercises, culminating with the production of a short digital video documentary. [24L, 12T]

Prerequisite: CCT353H5

CCT460H5 Advanced Web Design (SH) (SSc)

This course builds on the client-side web development skill of the Intermediate Web Design courses by adding a server-side programming and database design component. Students will learn the theoretical and practical aspects of implementing a database including data modelling, development, communication and security. Additionally, server-side programming will be introduced as a means of communication and interaction between client-side web pages and database data, allowing students to develop a dynamic database driven website. [24L, 12P]

Prerequisite: CCT260H5, CCT360H5

Recommended Preparation: Solid experience with static HTML is mandatory. Previous exposure to the logic of a programming language is advised.

CCT470H5 Information Visualization (SH) (SSc)

The visualization of data is a powerful tool that increasingly impacts communication, marketing and strategic decision-making. This fourth-year seminar course builds on the design stream in CCIT and will investigate technologies and strategies for conceptualizing and representing information to various user groups. [24L]

Prerequisite: CCT305H5 or CCT360H5

CCT471H5 Knowledge Representation and Reasoning (SSc)

This course explores the various formalisms that have been developed to represent knowledge and uncertainty. In addition, since much knowledge is 'created' as a result of reasoning processes, the representation and implementation of reasoning schemes are explored. [24L, 12T]

Prerequisite: CCT372H5

CCT480H5 Human Computer Interaction and Communication (SSc)

The course investigates how people interact with digital systems to enable the production of quality design from the perspective of the user. The course examines how interactive systems are conceptualized, designed, implemented, and deployed to meet users' needs. Students will also acquire the capacity to evaluate systems and to critically assess different HCI methods and approaches. It begins by developing an understanding of usability and focuses on enabling students to acquire an understanding of the user-centred design process (e.g. user studies, prototyping, and evaluation). [24L, 12T]
Prerequisite: CCT382H5

CCT481H5 Augmented Places and Social Media Spaces (SSc)

Increasingly we are seeing a hybridization of information location where media provide a framework or environment for users (participants) to construct reality and relationships. The course explores emergence of new ubiquitous communication cultures and the increasingly pervasive use of technology for the augmentation of people, places, and actual world entities (e.g. objects). In this course, students will explore various mechanisms of visualizing context-based information and the shaping of social media spaces. [24L, 12T]
Prerequisite: CCT382H5

CCT482H5 Physical Computing and Critical Making (SH) (SSc)

This course investigates the emerging field of critical making, which encourages students to approach social, communication and cultural issues through material engagement versus the literal and oral media more traditionally used in social science research. Students will not only explore core tensions and challenges regarding technology's role and influence in society, but engage these challenges directly through the design and physical creation of alternative technological prototypes. Basic mechanics, electronics and programming will be taught, with an understanding that thinking materially is rare for many most social science students. No previous knowledge is assumed. [24L, 12T]
Prerequisite: Minimum of 13.0 credits.

CCT490H5 Topics in Communication, Culture and Information Technology (SSc)

An in-depth examination of selected topics in communication, culture and information technology. Topics vary from year to year, and the content in any given year depends upon the instructor. [24S]
Prerequisite: Minimum 13.0 credits.

CCT495H5 Topics in Communication, Culture and Information Technology (SSc)

An in-depth examination of selected topics in communication, culture and information technology. Topics vary from year to year and the content in any given year depends on the instructor. [24L]
Prerequisite: Minimum of 13.0 credits.

CCT499Y5 Research Opportunity (SSc)

This course provides an opportunity for third or higher year students to assist with the resource project of a profession in return for 499Y credit. Students have an opportunity to become involved in original research and enhance their research skills. Participating faculty members post their project description for the following summer and fall/winter session on the ROP website in mid-February and students are invited to apply at that time.
Prerequisite: A minimum of 13.0 credits.

Comparative Physiology (HBSc)

This program is offered through the Biology Department.

Computer Science (HBSc)**Professors**

A.J. Bonner, B.Sc., M.S., Ph.D.
M. Craig, B.A.Sc., M.Sc.
G.S. Graham, B.Sc., M.Sc., M.A., Ph.D.
A. Petersen, B.Sc., M.Sc.
C. Rackoff, B.S., M.Sc., Ph.D.
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Computer science is concerned in the broadest sense with the study of computation and applications of computing. Its development has been stimulated by collaborations with many areas including engineering, the physical and life sciences, mathematics and statistics and commerce. However, computer science is much more than a set of techniques used in these application areas. Computer science as a discipline encompasses a wide range of research areas. For example, "human-computer interaction" is the study of computer usage patterns and the design of interfaces between users and computing systems. "Software engineering" includes both the process of building software and the study of software production as a business. "Systems" (networks, operating systems, databases, compilers) is concerned with the design and analysis of complex computing systems. "Numerical analysis" involves the design, testing, and analysis of numerical methods for solving computational problems in science and engineering. "Cryptography" is the study of the hiding of information. "Theory" encompasses computability – what can and cannot be computed by machines; complexity – the relative effort required to perform various computations; and verification – the formal proof of the correctness of programs.

Course offerings in the Computer Science program are intended to serve a wide variety of students, ranging from those whose primary interest is in information processing to those interested in applying computing to other fields.

Enrolment is restricted in all CSC specialist and major programs. Consult the "Programs" section of the Calendar and the Department for details of how to apply. CSC108H5, CSC148H5, MAT102H5 and MAT135Y5/ 137Y5 are the standard first year courses for students who plan to continue in a Computer Science program.

Notes:

1. All CSC programs require MAT102H5, MAT135Y5/ 137Y5, and CSC148H5. To take these courses, you must have obtained a minimum of 70% in Grade 12 Advanced Functions (MHF4U) or equivalent, and you must have completed Grade 12 Calculus and Vectors (MCV4U) or equivalent. A minimum of 70% in MCV4U is recommended.
2. All CSC specialist and major programs have a writing requirement. The recommended course to satisfy that requirement is CSC290H5. If a student wishes to substitute another course to satisfy the writing requirement, the student should consult the Computer Science Faculty Advisor.
3. Students enrolled in any of the Computer Science programs are strongly encouraged to consider participating in the Professional Experience Year (PEY) program. For information, visit www.engineeringcareers.utoronto.ca/programs
4. Students in any University of Toronto program may complete up to 1.5 credits of third and fourth year CSC courses. Enrolment in additional CSC courses is restricted to students in CSC specialist and major programs.
5. CSC courses are offered on all three campuses of the University of Toronto. Some course numbers are unique to a specific campus, and others are shared between campuses. When a course with a common number is offered at U of T Mississauga, students are expected to take the course at the U of T Mississauga, even if that course is offered on a different campus in a different academic term. Due to enrolment pressures, U of T Mississauga students may not always be able to enrol in courses unique to the other campuses.
We welcome inquiries from U of T students at the other two campuses about taking Computer Science courses unique to the U of T Mississauga campus. A reciprocal statement holds: Due to enrolment pressures at the U of T Mississauga campus, U of T students from the other two campuses may not be able to enrol in courses unique to the U of T Mississauga campus.

For more information on Computer Science programs consult www.utm.utoronto.ca/mcs.html.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CSC Computer Science (page 125)
MAT Mathematics (page 256)
STA Statistics (page 306)

Specialist Program ERSPE1037 Computer Science: Information Systems Option (Science)

As of September 2005, this program is discontinued. Students already in this program may continue to follow it.

Specialist Program ERSPE1038 Information Security (Science)

Within an Honours degree, 12.5 credits are required.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite Courses** A minimum of 4.0 credits to include CSC148H5 (65%); MAT102H5 (60%), and one of (MAT134Y5 (60%), MAT135Y5 (60%), MAT137Y5).
2. **Cumulative Grade Point Average (CGPA)** The minimum CGPA is determined annually. It is never lower than 2.0.

The Information Security Specialist is a deregulated fees program and as such, tuition fees for students enrolled in this program are higher than for other regulated fee programs. Fees are charged on a program and not a per course basis. See www.fees.utoronto.ca for more information on the fee structures.

First Year: CSC108H5, 148H5, 290H5; MAT102H5, 134Y5/ 135Y5/ 137Y5, 223H5

Second Year: CSC207H5, 209H5, 236H5, 258H5, 263H5; MAT224H5, 232H5; STA257H5

Third Year: CSC343H5, 347H5, 363H5, 369H5, 373H5; MAT301H5, 302H5

Third and Fourth Years: CSC358H5/ 458H5; two of (CSC422H5, 423H5, 427H5, 490H5);

Specialist Program ERSPE1039 Computer Science: Software Engineering Option (Science)

As of September 2005, this program is discontinued. Students already in this program may continue to follow it.

Specialist Program ERSPE1688 Computer Science (Science)

Within an Honours degree, 12.0 credits are required.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite courses** A minimum of 4.0 credits to include CSC148H5(65%); MAT102H5(60%); and one of (MAT134Y5 (60%), MAT135Y5 (60%), MAT137Y5).
2. **Cumulative Grade Point Average (CGPA)**
The minimum CGPA is determined annually. It is never lower than 2.0.

The Computer Science Specialist is a deregulated fees program and as such, tuition fees for students enrolled in this program are higher than for other regulated fee programs. Fees are charged on a program and not a per-course basis. See www.fees.utoronto.ca for more information on the fee structures.

First Year: CSC108H5, 148H5, 290H5; MAT102H5, 134Y5/ 135Y5/ 137Y5

Second Year: CSC207H5, 209H5, 236H5, 258H5, 263H5; MAT223H5, 232H5; STA257H5

Third and Fourth Year: CSC343H5, 358H5/ 458H5, 363H5, 369H5, 373H5; Five half courses from any 300/400 level U of T Mississauga CSC courses (including at least 1.0 credit from 400-level courses), except for CSC492H5 and CSC493H5.

Notes: Students in the Computer Science Specialist program are advised to arrange their program so as to complete the requirement for the Major in Computer Science by the end of the third year.

Major Program ERMAJ1688 Computer Science (Science)

8.0 credits are required.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite courses** A minimum of 4.0 courses to include CSC148H5; MAT102H5, MAT134Y5/ 135Y5/ 137Y5.
2. **Cumulative Grade Point Average (CGPA)**
The minimum CGPA is determined annually.

The Computer Science Major is a deregulated fees program and as such, tuition fees for students enrolled in this program are higher than for other regulated fee programs. Fees are charged on a program and not a per course basis. See www.fees.utoronto.ca for more information on the fee structures.

First Year: CSC108H5, 148H5, 290H5; MAT102H5, 134Y5/ 135Y5/ 137Y5;

Second Year: CSC207H5, 236H5, two of (CSC209H5, 258H5, 263H5); MAT223H5; STA257H5

Third and Fourth Years: Four half courses from any 300/400 level U of T Mississauga CSC courses (including at least 0.5 credit from a 400-level course), except for CSC492H5 and CSC493H5.

Minor Program ERMIN1688 Computer Science (Science)

4.0 credits are required.

First Year: CSC108H5, 148H5; MAT102H5

Second Year: CSC207H5, 236H5; one of (CSC209H5, 258H5, 263H5)

Third and Fourth Years: Two half courses from any 300/400 level UofT Mississauga CSC courses, except for CSC492H5 and CSC493H5.

Notes: Students in the CSC minor may only complete 1.5 credits of third and fourth year computer science courses. To enrol in additional upper year courses, a student must enter a CSC specialist or major program.

List of Courses

CSC104H5 The Why and How of Computing (SCI)

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. [24L, 12T]

Exclusion: SMC 104H1; VIC 104H1; any CSC course

CSC108H5 Introduction to Computer Programming (SCI)

Structure of computers; the computing environment. Programming in a language such as Python. Program structure: elementary data types, statements, control flow, functions, classes, objects, methods, fields. List: 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. [36L, 24P]

Exclusion: CSC120H1, 148H5, 150H1

Prerequisite: Grade 12 (4U) Mathematics.

The following course, CSC148H5 requires Grade 12 Advanced Functions (MHF4U) and Grade 12 Calculus and Vectors (MCV4U).

CSC148H5 Introduction to Computer Science (SCI)

Abstract data types and data structures for implementing them. Linked data structures. Encapsulation and information-hiding. Object-oriented programming. Specifications. Analyzing the efficiency of programs. Recursion. This course assumes programming experience in a language such as Python, C++, or Java, as provided by CSC108H5. Students who already have this background may consult the Computer Science faculty advisor for advice about skipping CSC108H5. Practical (P) sections consist of supervised work in the computing laboratory. These sections are offered when facilities are available, and attendance is required. [36L, 24P]

Exclusion: CSC150H1

Prerequisite: Grade 12 Advanced Functions (MHF4U), Grade 12 Calculus and Vectors (MCV4U), CSC108H5

You may not take this course after completing three or more CSC courses at the 200 level or higher.

CSC199H5 Computer Science Seminar (SCI)

Introduction to a topic of current interest in computer science intended for a general audience. Content will vary from year to year.

Prerequisite: P.I.

CSC207H5 Software Design (SCI)

An introduction to software design and development concepts, methods, and tools using a statically-typed object-oriented programming language such as Java. Topics from: version control, build management, unit testing, refactoring, design patterns, advanced IDE usage, regular expressions, markup languages, parsing using finite state machines, and reflection. [24L, 12T]

Prerequisite: CSC148H5

CSC209H5 Software Tools and Systems Programming (SCI)

Software tools and techniques, and their use in the Linux system. What goes on in the operating system when programs are executed. Core topics: software tools, pipes and filters, file processing, process management, system calls, signals, concurrency. The C programming language. Possible other topics: basic network programming, scripting languages. [24L, 12T]

Exclusion: CSC369H5

Prerequisite: CSC207H5

CSC236H5 Introduction to the Theory of Computation (SCI)

Mathematical induction; correctness proofs for iterative and recursive algorithms; recurrence equations and their solutions (including the "Master Theorem"); introduction to automata and formal languages. (This course replaces CSC238H5) [24L, 12T]

Exclusion: CSC238H5, 240H1

Prerequisite: CSC148H5; MAT102H5

CSC258H5 Computer Organization (SCI)

Introduction to computer organization and architecture. The view ranges from low-level bits, with Boolean expressions and the associated gates, to higher-level processor and memory structures. The design and analysis of combinational circuits and sequential circuits. The control unit and the datapath. Students will design and implement circuits. [24L, 24P]

Prerequisite: CSC148H5; MAT102H5

CSC263H5 Data Structures and Analysis (SCI)

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. [24L, 12T]

Exclusion: CSC265H1, 378H5

Prerequisite: CSC207H5/ 270H5, 236H5/ 238H5; STA107H5/ 257H5

CSC288H5 Tools of the Trade (SCI)

A practical introduction to Computer Science for non-computer scientists. Introduction to common computational tools with an emphasis on their use in solving problems in areas outside of Computer Science (Management, Psychology, Biology etc.). Introduction to databases, queries and reporting. Use of spreadsheets to capture, represent and process data. Common data formats, how tools use them, and how to parse and transform data. Using tools to gather, compile, analyze and visualize data. Practical (P) sections consist of supervised work in the computer laboratory. No programming experience is necessary. [24L, 12T]

Exclusion: Any CSC course.

Prerequisite: 1.0 credit in the student's Major or Specialist program

Recommended Preparation: Grade 12 Math

CSC290H5 Communication Skills for Computer Scientists (SCI)

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. This can be used to satisfy the writing requirement in CSC programs. [24L, 12T]

Prerequisite: 0.5 CSC credits

CSC299Y5 Research Opportunity Program (SCI)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

CSC300H5 Computers and Society (SCI)

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. [24L, 12T]

Exclusion: PSCD03H (Scarborough)

Prerequisite: Any CSC half-course; CGPA 2.0

CSC301H5 Introduction to Software Engineering (SCI)

An introduction to agile development methods appropriate for medium-sized teams and rapidly-moving projects. Basic software development infrastructure; requirements elicitation and tracking; estimation and prioritization; teamwork skills; basic UML; design patterns and refactoring; security. [24L, 12T]

Exclusion: CSC340H5, 407H5

Prerequisite: CSC209H5, 290H5

CSC309H5 Programming on the Web (SCI)

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. [24L, 12T]

Prerequisite: CSC209H5, 290H5

Corequisite: Prerequisite or Corequisite: CSC343H5

CSC310H5 Information Theory (SCI)

An introduction to reliable and accurate transmission of information. Entropy, lossless and lossy data compression, optimal compression, information channels, channel capacity, error-correcting codes, and digital fountain codes. Course concepts form the basis for practical applications such as ZIP and MP3 compression, channel coding for DSL lines, communication in deep space and to mobile devices, CDs and disk drives, the development of the Internet, as well as linguistics and human perception. [24L, 12T]

Prerequisite: CSC148H5, 290H5; STA257H5; MAT223H5

CSC318H5 The Design of Interactive Computational Media (SCI)

User-centered design of interactive systems. Methodologies, principles, metaphors, task analysis, and other topics. Interdisciplinary design; the role of industrial design and the behavioural sciences. Interactive hardware and software; concepts from computer graphics. Classes of direct manipulation systems, extensible systems, rapid prototyping tools. Additional topics in interactive computational media. Students work on projects in interdisciplinary teams. Enrolment limited, but non-computer scientists welcome. [24L, 12T]

Prerequisite: Any CSC half-course, CGPA 3.0 or enrolment in CSC specialist or major program

CSC320H5 Introduction to Visual Computing (SCI)

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 Java and Swing/Graphics2D or C/C++ and OpenGL to create graphical user interfaces for synthesizing and manipulating photographs. [24L, 12T]

Prerequisite: CSC207H5, 290H5; MAT223H5

CSC321H5 Introduction to Neural Networks and Machine Learning (SCI)

The first half of the course is about supervised learning for regression and classification problems and will include the perceptron learning procedure, backpropagation, and methods for ensuring good generalisation to new data. The second half of the course is about unsupervised learning methods that discover hidden causes and will include Kmeans, the EM algorithm, Boltzmann machines, and deep belief nets. [24L, 12T]

Prerequisite: CSC148H5, 290H5; MAT134Y5/ 135Y5/ 137Y5, 223H5; STA257H5

CSC322H5 Introduction to Algebraic Cryptography (SCI)

The course will take students on a journey through the methods of algebra and number theory in cryptography, from Euclid to Zero Knowledge Proofs. Topics include: block ciphers and the Advanced Encryption Standard (AES); algebraic and number-theoretic techniques and algorithms in cryptography, including methods for primality testing and factoring large numbers; encryption and digital signature systems based on RSA, factoring, elliptic curves and integer lattices; and zero-knowledge proofs. [36L, 12T]

Exclusion: MAT302H5

Prerequisite: MAT223H5, 224H5, 301H5

CSC324H5 Principles of Programming Languages (SCI)

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 nonprocedural 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). [24L, 12T]

Prerequisite: CSC207H5/ 270H5, 236H5/ 238H5, 290H5

CSC333H5 Forensic Computing (SCI)

Introduction to the tools and techniques of the digital detective. Electronic discovery of digital data, including field investigation methods of the computer crime scene. Focus on the computer science behind computer forensics, network forensics and data forensics. Forensic topics include: computer structure, data acquisition from storage media, file system analysis, network intrusion detection, electronic evidence, Canadian computer crime case law. [24L, 12T]

Exclusion: More than 1.0 CSC credit; CSC233H5

Prerequisite: CSC290H5; FSC239Y5

Priority given to Forensic Science majors and specialists.

CSC338H5 Numerical Methods (SCI)

Computational methods for solving numerical problems in science, engineering and business. Linear and non-linear equations, approximation, optimization, interpolation, integration and differentiation. The aim is to give students a basic understanding of floating-point arithmetic and the implementation of algorithms used to solve numerical problems, as well as a familiarity with current numerical computing environments. Course concepts are crucial to a wide range of practical applications such as computational finance and portfolio management, graphics and special effects, data mining and machine learning, as well as robotics, bioinformatics, medical imaging and others. [24L, 12T]

Exclusion: CSC336H1, 350H5

Prerequisite: CSC148H5, 290H5/ MAT202H5; MAT134Y5/ 135Y5/ 137Y5, 223H5

CSC343H5 Introduction to Databases (SCI)

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. [24L, 12T]

Prerequisite: CSC263H5, 290H5

CSC347H5 Introduction to Information Security (SCI)

An investigation of many aspects of modern information security. Major topics cover: Techniques to identify and avoid common software development flaws which leave software vulnerable to crackers. Utilizing modern operating systems security features to deploy software in a protected environment. Common threats to networks and networked computers and tools to deal with them. Cryptography and the role it plays in software development, systems security and network security. [24L, 12T]

Prerequisite: CSC209H5, 236H5, 290H5

CSC358H5 Principles of Computer Networks (SCI)

Introduction to computer networks and systems programming of networks. Basic understanding of computer networks and network protocols. Network hardware and software, routing, addressing, congestion control, reliable data transfer, and socket programming. [24L, 12P]

Prerequisite: CSC209H5, 258H5, 263H5, 290H5

CSC363H5 Computational Complexity and Computability (SCI)

Introduction to the theory of computability: Turing machines, Church's thesis, computable and non-computable 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. [24L, 12T]

Exclusion: CSC364H5, 365H1

Prerequisite: (CSC290H5, 236H5/ 238H5)/MAT202H5

CSC369H5 Operating Systems (SCI)

Principles of operating systems, building upon system programming knowledge. The operating system as a control program and as a resource allocator. Core topics: processes and threads, synchronization and concurrency control, processor scheduling, memory management, file systems, introduction to distributed systems. The source code for the Linux kernel will serve as a testbed for investigations. Possible other topics: protection and security, operating system forensics. [24L, 12T]

Prerequisite: CSC258H5, 209H5, 290H5

CSC373H5 Algorithm Design and Analysis (SCI)

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. [24L, 12T]

Exclusion: CSC375H1, 364H5

Prerequisite: CSC263H5/ 378H5, 290H5

CSC384H5 Introduction to Artificial Intelligence (SCI)

A broad introduction to the sub-disciplines of AI. Core topics: search methods, game playing and rule-based systems. Overview of: natural language understanding, knowledge representation, reasoning, planning, vision, robotics, learning and neural networks. Assignments provide practical experience, both theory and programming, of the core topics. [24L, 12T]

Exclusion: CSC484H1

Prerequisite: CSC290H5, 324H5; STA257H5

CSC398H5 Topics in Computer Science (SCI)

Introduction to a topic of current interest in computer science intended for CSC majors and specialists. Content will vary from year to year.

Prerequisite: A minimum of 8.0 credits and P.I.

CSC399Y5 Research Opportunity Program (SCI)

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 399Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) for more details.

CSC404H5 Video Game Design (SCI)

An introduction to the concepts and techniques for the design and development of electronic games. Topics include: game history, social issues and story elements. The software engineering, artificial intelligence and graphics elements for video games. Level and model design. Audio elements. Real-world aspects of the gaming industry, including the business of game development, design teams and game promotion. Assignments test practical skills in game development, with a team implementation of a complete video game as a course project. [24L, 12P]

Prerequisite: CSC290H5, Two of (CSC301H5, CSC318H5, CSC384H5, CSC418H1)

CSC411H5 Machine Learning and Data Mining (SCI)

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. [24L, 12T]

Prerequisite: CSC207H5, 290H5, (MAT134Y5/ 135Y5/ 137Y5)/ (MAT133Y5, 233H), MAT223H5; STA257H5

Recommended Preparation: CSC338H5

CSC422H5 Cryptography and Computational Complexity (SCI)

A rigorous introduction to the theory of cryptography from the perspective of computational complexity. The relationship of cryptography to the "P=NP" question. As time permits, topics will be chosen from: (i) definitions of different kinds of pseudorandom generators, relationships between them, and ways of constructing them; (ii) secure sessions using shared private key cryptography and public key cryptography; (iii) signature schemes. [24L, 12T]

Prerequisite: CSC290H5, 363H5

Recommended Preparation: MAT301H5

CSC423H5 Computer Forensics (SCI)

Introduction to the digital investigation of electronic evidence. The computer as a crime scene and as a party to a criminal offence. Focus on network issues (intrusion detection, sniffer logs) and operating system issues (especially file system issues: hidden data, file metadata, deleted data). This course will build upon your background in operating systems theory and practice, and will introduce you to the tools and techniques of the computer forensic specialist in the Linux and Microsoft environments. Reference to Canadian computer crime case law. [24L, 12T]

Prerequisite: CSC290H5, 347H5, 369H5

CSC427H5 Computer Security (SCI)

Network attacks and defenses, operating system vulnerabilities, application security (e-mail, Web, databases), viruses, spyware, social engineering attacks, privacy and digital rights management. The course will cover both attack techniques and defense mechanisms. [24L, 12T]

Prerequisite: CSC290H5, 347H5, 369H5

CSC448H5 Formal Languages and Automata (SCI)

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. [24L, 12T]

Prerequisite: CSC236H5/ 238H5, 290H5, 363H5/ 364H5

CSC454H5 The Business of Software (SCI)

For the description of this course, please visit the Academic Calendar for the Faculty of Arts & Science, St. George Campus. www.artsandscience.utoronto.ca/ofr/calendar

Prerequisite: For prerequisites, please visit the Academic Calendar for the Faculty of Arts & Science, St. George Campus. www.artsandscience.utoronto.ca/ofr/calendar

CSC458H5 Computer Networks (SCI)

Computer networks with an emphasis on systems programming of real networks and applications. Computer network architectures, protocol layers, network programming, and performance analysis. Transmission media, encoding systems, switching, multiple access arbitration. Network routing, congestion control, flow control. Transport protocols, real-time, multicast, social networks. [24L, 12T]

Prerequisite: CSC209H5, 258H5, 263H5, 290H5

CSC469H5 Operating Systems Design and Implementation (SCI)

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. [24L, 12T]

Prerequisite: CSC290H5, 369H5

CBJ481Y5 Independent Project in Bioinformatics (SCI)

This course is intended for students in the Bioinformatics Specialist degree program. Possible areas in which the research may take place include: functional genomics (e.g., microarray and proteomic data analysis); systems biology; and the development of novel analytical methods for large datasets. Students will be required to produce a written document of their project and present it orally. In order to enrol in this course, students must obtain, several months in advance, approval from a faculty member(s) who will serve as supervisor(s).

Prerequisite: P.I.

Corequisite: BIO477H5

Recommended Preparation: CSC343H5, BIO372H5

CSC488H5 Compilers and Interpreters (SCI)

Compiler organization, compiler writing tools, use of regular expressions, finite automation and content-free grammars, scanning and parsing, runtime organization, semantic analysis, implementing the runtime model, storage allocation, code generation. [24L, 12T]

Prerequisite: CSC258H5, 263H5, 290H5, 324H5

Recommended Preparation: CSC209H5

CSC490H5 Capstone Design Course (SCI)

This 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. Topics, themes and required preparation will vary by instructor. [24L, 12T]

Prerequisite: Permission of the instructor; CGPA 3.0/enrolment in a CSC Subject POST, CSC290H5.

CSC492H5 Computer Science Implementation Project (SCI)

This course involves a significant implementation project in any area of Computer Science. The project may be undertaken individually or in small groups. The project is offered by arrangement with a Computer Science faculty member.

Exclusion: CSC494H1, 495H1

Prerequisite: CSC290H5; at least three 300-level CSC half-courses and permission of the department.

CSC493H5 Computer Science Expository Work (SCI)

This course involves a significant literature search and expository work in any area of Computer Science. This work must be undertaken individually. It is offered by arrangement with a Computer Science faculty member.

Exclusion: CSC494H1, 495H1

Prerequisite: CSC290H5; at least three 300-level CSC half-courses and permission of the department.

CSC498H5 Topics in Computer Science (SCI)

Introduction to a topic of current interest in computer science intended for CSC majors and specialists. Content will vary from year to year.

Prerequisite: A minimum of 8.0 credits and P.I.

Concurrent Teacher Education (HBA, HBS and BEd)

CTEP Program and Internship Co-ordinator

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The Concurrent Teacher Education Program (CTEP) is a partnership between the Ontario Institute for Studies in Education (OISE) and six other academic units of the University of Toronto, including the University of Toronto Mississauga. The program allows students interested in a career in teaching to complete two undergraduate degrees at the same time during five years of full-time study. Upon successful completion of the program, U of T Mississauga students will earn both a Bachelor of Education and either an Honours Bachelor of Arts or an Honours Bachelor of Science. Graduates will be recommended for certification in either the Intermediate-Senior (Grades 7 to 12) or Primary-Junior (Grades K to 6) Divisions in Ontario.

There are five CTEP streams which students can apply to at U of T Mississauga:

Intermediate-Senior Program

- CTEP – Chemistry
- CTEP – French
- CTEP – Mathematics

Primary-Junior Program

- CTEP – French
- CTEP – Psychology

Students applying to CTEP must enrol in at least a Major Program (Subject POST) in their stream of choice as listed above. At least one other teaching subject must be completed for those students in the Intermediate-Senior program. A second teaching subject is not required for those enrolled in the Primary-Junior program. Second teaching subjects offered at U of T Mississauga are listed below.

Second Teaching Subjects

Students must have at least two teaching subjects in order to qualify to teach in the Intermediate and Senior Division in Ontario. At U of T Mississauga, one of these must be the CTEP area of study for which they have been admitted; Chemistry, French or Mathematics. The second is selected from the approved CTEP list:

- Computer Studies
- Dramatic Arts
- Economics
- English
- Family Studies
- French as a Second Language
- Geography
- History
- International Languages - Italian
- International Languages - Spanish*
- Mathematics
- Politics
- Science - Biology
- Science - Chemistry
- Science - General
- Science - Physics
- Social Sciences - General
- Visual Arts

*Students wishing to select Spanish as a second teaching subject must do so in consultation with the CTEP Academic Advisor as there are no major or minor programs in Spanish at U of T Mississauga at this time.

In order for Intermediate-Senior stream candidates to obtain qualifications for teaching a particular subject, a minimum number of university-level credits must be completed in a given subject area. Intermediate-Senior candidates should also identify their second teaching subject by the end of Year 2. For further information, please see the CTEP website at www.utm.utoronto.ca/ctep.

Degree Requirements

CTEP students must meet degree requirements for both the BEd (see www.ctep.utoronto.ca) and HBA or HBSc programs (see Degree Requirements (Page 34)). In most instances, students will enrol in a double major program, although a major and two minors is also possible. CTEP students should contact the CTEP Program and Internship Co-ordinator to discuss options. Primary-Junior candidates should focus on a specialist or double major program since a second teaching subject is not required.

Admission

In most cases, students apply to enter CTEP directly from secondary school. All CTEP applicants will be required to complete an online CTEP Application Profile in addition to their OUAC application. Only current U of T Mississauga students may be considered for admission to CTEP at the

end of their first year of full-time study when space is available. See Admission Information, Section 3.

Application procedures can be found at the Office of the Registrar's website: www.utm.utoronto.ca/reg. The minimum qualifications for admission consideration after first-year of full-time study are:

- Enrolment at U of T Mississauga
- A maximum of 5.0 completed credits by the end of the academic session in which they are applying
- A cumulative GPA of at least 2.5
- Completion of first year prerequisite course for the major program, i.e.: FRE180H and FRE181H for French, MAT134Y/135Y/137Y and MAT102H for Math, CHM110H, CHM120H and MAT134Y/135Y/137Y for Chemistry, or PSY100Y for Psychology. Students must meet the departmental minimum grade in order to declare the subject as a major.

Note: Applicants to the French stream (Primary-Junior or Intermediate-Senior) will participate in a two-part selection process. Those students meeting the academic requirements for an initial selection process are then required to participate in a placement test which incorporates, writing, reading and speaking. This test will be conducted on a pre-determined date and time at U of T Mississauga, with the successful candidates contacted directly once the assessment has been evaluated. The cost of the placement test is \$50 and an offer of admission will be sent to a maximum of 40 successful candidates thereafter.

Further questions should be directed to the Admissions & Recruitment Unit, U of T Mississauga:

Room 2115, William G. Davis Bldg

Tel: 905-828-5400

Office hours: Monday-Wednesday and Friday: 9 a.m. - 4 p.m.; Thursday 10 a.m. to 4 p.m.

Program Requirements

The CTEP program requires completion of:

(1) an Honours Bachelor of Arts or an Honours Bachelor of Science degree (see Degree Requirements (Page 34)) including:

1. Completion of a specialist, or two approved major programs, or a major and two minors (or alternate program structure approved by the CTEP co-ordinator).
2. The following education focused courses:
 - (a) 0.5 credit in Child and Adolescent Development with 10-hour learner-focused field experience to be taken in Year 1.
 - (b) 0.5 credit in Equity and Diversity in Education with 20-hour community- and school-focused field experience to be taken in Year 2 of study.
 - (c) 0.5 credit in Communications and Conflict Resolution to be taken in Year 3 of study.

- (d) 0.5 credit CTEP 100-hour Anchor Subject Internship in a school or community organization to be taken within Year 3 or 4. The internship may also be completed during the summer months after Years 3 and 4. Students in the CTEP French stream are encouraged to complete their internship prior to Year 4.

(2) A Bachelor of Education degree, which requires completion of 5.0 full credits as follows:

1. 0.5 credits in Principles of Teaching: Legal, Ethical and Professional in Year 3 that includes a 20-hour field experience focused upon observation and lesson planning in Year 3.
2. 0.5 credits in Inclusive Education: English Language Learner and Exceptional Learners that includes a 20-hour field experience tutoring a student one-on-one in Year 4.
3. 0.5 credits in Psychological Foundations of Learning to be taken in Year 5 at OISE.
4. 0.5 credits in Social Foundations in Teaching and Schooling to be taken in Year 5 at OISE.
5. 0.5 credits in Mentored Inquiry in Teaching with a minimum of 3 days spent in a classroom, the school and its community to be taken in Year 5 at OISE.
6. 1.0 credit in Curriculum, Instruction and Assessment – Anchor Subject I/S, Primary P/J to be taken in Year 5 at OISE.
7. 0.25 credits in the Anchor Subject/Primary Practicum placement in schools, 30 to 35 days, 5 days per week in 2 blocks to be taken in Year 5 at OISE.
8. 1.0 credit in Curriculum, Instruction and Assessment – second teaching subject I/S, Junior P/J to be taken in Year 5 at OISE.
9. 0.25 credits in the second teaching subject/Junior Practicum placement in schools, 20 to 25 days, 5 days per week to be taken in Year 5 at OISE.

Beginning in Year 3, CTEP students are also **required** to develop an electronic portfolio (a collection of artifacts, assignments and reflective activities) that mirrors their growth as CTEP candidates from students to professionals. The electronic portfolio will be tied to assignments within the BEd courses.

For more information on these courses and OISE/UT related CTEP requirements, see the OISE/UT Calendar or visit www.ctep.utoronto.ca.

Visit www.ctep.utoronto.ca/program/courses.html to view a chart that shows how the BEd requirements are acquired over the five-year program.

CTEP is a **full-time program** and students are expected to take five years to complete their HBA/HBSc and BEd degree program. This requires students to successfully complete 5.0 credits per year of study. Students who require accommodation through the AccessAbility Resource Centre may have a reduced course load as recommended.

Exceptional cases approved by the CTEP Program and Internship Coordinator must complete all HBA/HBSc and BEd requirements within 9 years of study.

The CTE-coded courses are expected to be taken in Years 1, 2 and 3 consecutively. Students entering CTEP after their first year of study at university must complete CTE100, CTE200 and CTE250 by Year 3 of study. Students who do not complete their required CTE courses by the end of their third year are at risk of probation or withdrawal from the program. Such students will be required to petition for permission to remain due to exceptional circumstances.

Academic standing within the degree

The academic standing of CTEP students within their HBA or HBSc will be assessed according to the rules governing overall standing.

Academic standing within CTEP

Academic status within CTEP will be determined at the end of each winter session beginning with the winter session in which at least eight full credits have been attempted.

Academic status within CTEP will be determined as follows:

1. Students who maintain a cumulative grade point average of 2.50 or better are said to be "in good standing" in CTEP.
2. Students who have attempted** at least eight full credits and have a cumulative GPA below 2.50 will be placed on probation in CTEP.
3. Students may clear probation by achieving a cumulative GPA of at least 2.50. Students who have cleared probation shall be said to be again in good standing in CTEP.
4. Students may continue on probation in CTEP by achieving an annual (Fall/Winter) GPA of at least 2.70 until such time as they raise their cumulative GPA to 2.50 and return to good standing. During this period of probation, students will not be permitted to enrol in EDU (OISE) courses or the 100-hour Anchor Subject Internship.
5. All students must have a minimum cumulative GPA of 2.50 by the beginning of the winter term of Year 4. Any student not meeting this requirement will be prevented from proceeding to the professional semester at OISE.
6. Students who, at the end of any session (Winter or Summer) during which they are on CTEP probation:
 - (a) have a cumulative GPA of 2.50 or more shall be in good standing;
 - (b) have a cumulative GPA of less than 2.50 but maintain a session (Summer) or annual (Fall/Winter) GPA of at least 2.70 will remain on CTEP probation;
 - (c) have a cumulative GPA of less than 2.50 and are unsuccessful in maintaining an annual (Fall/Winter) or sessional (Summer) GPA of at least 2.70 while on CTEP probation will be removed from the program and transferred to the HBA/HBSc Bachelor's stream degree program.

Students who subsequently raise their cumulative GPA to 2.50 within one year may request reinstatement into CTEP through the CTEP Program and Internship Coordinator.

7. Suspension from the university will result in an automatic withdrawal from CTEP.

** "attempted" includes failures as well as passes.

Leave of absence from the program

CTEP students may be granted a year off from the program should financial, health, or personal issues arise. To request a year's absence, students should first write a letter to the CTEP Program and Internship Co-ordinator in order to obtain permission. If granted, the student must then petition online through the Office of the Registrar and await official approval.

Withdrawal from CTEP

Students who choose, or are required, to withdraw from CTEP may be allowed to continue in the Honours Bachelor of Arts or Honours Bachelor of Science program, **but any credit for the 100-hour Anchor Subject Internship and Bachelor of Education courses they have completed will NOT apply toward the HBA or HBSc degree.** Students will, however, retain the other CTE-coded courses as Social Science credits. Students intending to withdraw from CTEP must advise both the CTEP Program and Internship Co-ordinator and the Office of the Registrar no later than the first day of classes in the Fall term. Otherwise, they will be charged fees pertaining to the CTEP program.

NOTE: Bachelor of Education courses for Year 3 students are co-ordinated by OISE and will be taught at U of T Mississauga. BEd courses for Year 4 and 5 students are held at OISE in downtown Toronto. For a list of BEd courses, please see www.ctep.utoronto.ca/program/courses.html

List of Courses

CTE100H5 Child and Adolescent Development in Education (SSc)

Focuses on research on child and adolescent development. Candidates explore how best to facilitate growth and learning in the area of education. This course includes a field experience and entails observation of human development across the various age groups. [36L, 10P]

NOTE: Restricted to students enrolled in the Concurrent Teacher Education Program.

CTE200H5 Equity and Diversity in Education (SSc)

Focuses on raising awareness and sensitivity to equity and diversity issues facing teachers and students in diverse schools and cultural communities. It includes a field experience and entails observation of, and participation in, equity and diversity efforts in a culturally-rooted school and/or community organization. [36L, 20P]

NOTE: Restricted to students in Year 2 who are enrolled in the Concurrent Teacher Education Program.

CTE250H5 Communication and Conflict Resolution (SSc)

The course focuses on principles and practices of conflict management and resolution, emphasizing interpersonal communication, including cross-cultural perspectives and communicating across different identities and worldviews, with emphasis on the relevance of these skills, principles and processes to teaching and schooling. [36L]

NOTE: Restricted to students in Year 3 who are enrolled in the Concurrent Teacher Education Program.

CTE388H5 Anchor Subject Internship (SSc)

The CTEP Anchor Subject Internship is a minimum 100-hour, education focused program component embedded within the undergraduate degree (HBA/HBSc). The internship connects the candidate's subject specialization to aspects of the teaching profession. The internship will integrate, extend, and deepen a student's learning experience as they begin to identify particular academic or professional insights over the course of their studies. Concurrent Education students can choose from a wide variety of internship opportunities (school sites, non-school sites, or international sites). Prior to registering, internship proposals must be approved by the CTEP Internship Co-ordinator/Advisor.

NOTE: The Anchor Subject Internship is a program requirement which may be taken in Years 3 or 4. The 100 hours must be completed at some point between September of one year to September of the next year, i.e.: over one academic term, over the course of two academic terms, or over the course of the summer. Students must either have completed or be enrolled in EDU310H - *Principles of Teaching*, when registering for the internship. Students with French as an anchor subject are encouraged to complete their internship in Year 3. This internship is only open to students enrolled in the Concurrent Teacher Education Program (CTEP).

Criminology and Socio-Legal Studies (HBA)

Professors

D. Brownfield, B.A., M.A., Ph.D.
 R. Dinovitzer, B.A., M.A., Ph.D.
 P. Goodman, B.A., M.A., Ph.D.
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The Criminology and Socio-Legal Studies Specialist is intended for students who wish to go on to graduate studies in this or a similar area. The Major provides a broad foundation for students who may have an academic or civic interest in law, crime and criminal justice. This might include:

1. students who at a later stage may wish to pursue more advanced work in areas related to, for example, criminology, law or social work;
2. students wanting to know more about the topics of the sociology of crime, particularly as these become issues of public policy.

IMPORTANT NOTES for CRIMINOLOGY AND SOCIO-LEGAL STUDIES PROGRAMS

Program requirements have substantially changed for the Specialist and Major programs. These changes only apply to students registering in any of these programs as of April 2007. Students enrolled in any programs prior to this date should follow the requirements in the U of T Mississauga Calendar for the year that they enrolled in their program.

SOC101Y5 will be accepted in place of SOC100H5
 SOC200Y5 is equivalent to SOC221H5 plus SOC222H5
 SOC300Y5 is equivalent to SOC350H5 plus SOC351H5
 SOC314Y5 is equivalent to SOC231H5 plus SOC232H5

Sociology website: For further information about the Criminology and Socio-Legal Studies Program and information about the Sociology Department, consult our website: <http://www.utm.utoronto.ca/8881.0.html>

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
CCT	Communication, Culture and Information Technology (page 111)
FSC	Forensic Science (page 178)
GGR	Geography (page 196)
PHL	Philosophy (page 263)
POL	Political Science (page 275)
PSY	Psychology (page 287)
SOC	Sociology (page 296)
WGS	Women and Gender Studies (page 319)

Specialist Program ERSPE0727 Criminology and Socio-Legal Studies (Arts)

Within an Honours degree, 10.0 credits are required.

Limited Enrolment – Students applying at the end of first year (4.0 credits) must have a grade of at least 70 in SOC100H5 and a CGPA of at least 2.0. Students applying in subsequent years must have an average grade of at least 70 among all sociology courses and a CGPA of 2.0.

First Year: SOC100H5

Students may enroll in most 200-level SOC courses after successfully completing SOC100H5.

Higher Years:

1. SOC209H5, 221H5, 222H5, 231H5
2. SOC305H5, 350H5, 387H5
3. 1.0 credit at the 400 level
4. 5.0 additional credits of which 2.0 credits must be at the 300/400 level

Optional Courses: 2.5 credits must be selected from **Group A** and an additional 2.5 credits from **Group A** or **Group B**.

Group A:

SOC211H5, 216H5, 219H5, 307H5, 310H5, 316H5, 323H5, 346H5, 371H5, 378H5, 379H5, 393H5, 394H5, 420H5, 421H5, 446H5, 447H5, 448H5, 450H5, 456H5, 475H5,

493H5, 494H5

Group B:

ANT205H5, 369H5

CCT206H5

FSC239Y5, 271H5, 360H5, 361H5

GGR313H5

PHL271H5, 283H5, 370H5

POL214Y5, 332Y5, 340Y5, 353Y5

PSY220H5, 230H5, 240H5, 270H5, 325H5, 328H5, 340H5, 341H5, 344H5, 420H5, 440H5

SOC232H5, 236H5, 244H5, 253H5, 263H5, 275H5, 284H5, 302H5, 332H5, 339H5, 351H5, 354H5, 359H5, 365H5, 368H5, 380H5, 388H5, 432H5, 457H5, 460H5, 480H5

WGS365H5, 420H5

Major Program ERMAJ0727 Criminology and Socio-Legal Studies (Arts)

7.0 credits are required.

Limited Enrolment – Students applying at the end of first year (4.0 credits) must have a grade of at least 63 in SOC100H5 and a CGPA of at least 2.0. Students applying in subsequent years must have an average grade of at least 63 among all sociology courses and a CGPA of 2.0.

First Year: SOC100H5

Students may enroll in most 200-level SOC courses after successfully completing SOC100H5.

Higher Years:

1. SOC209H5, 221H5, 222H5, 305H5
2. 4.5 additional credits of which 1.5 credits must be at the 300/400 level

Optional Courses: 2.0 credits must be selected from **Group A** and an additional 2.5 credits from **Group A or Group B**.

Group A:

SOC211H5, 216H5, 219H5, 307H5, 310H5, 316H5, 323H5, 346H5, 371H5, 378H5, 379H5, 393H5, 394H5, 420H5, 421H5, 446H5, 447H5, 448H5, 450H5, 456H5, 475H5, 493H5, 494H5

Group B:

ANT205H5, 369H5

CCT206H5

FSC239Y5, 271H5, 360H5, 361H5

GGR313H5

PHL271H5, 283H5, 370H5

POL214Y5, 332Y5, 340Y5, 353Y5

PSY220H5, 230H5, 240H5, 270H5, 325H5, 328H5, 340H5, 341H5, 344H5, 420H5, 440H5

SOC231H5, 232H5, 236H5, 244H5, 253H5, 263H5, 275H5, 284H5, 302H5, 332H5, 339H5, 350H5, 351H5, 354H5, 359H5, 365H5, 368H5, 380H5, 387H5, 388H5, 432H5, 457H5, 460H5, 480H5

WGS365H5, 420H5

Diaspora and Transnational Studies (HBA)

Professors

H.K. Kwee, B.A., M.A., Ph.D.

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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. Students will complete the program with 1.0 credit 400 level capstone course (or two linked half-courses).

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
DTS	Diaspora and Transnational Studies (page 137)
ENG	English (page 153)
FAH	Fine Art History (FAH) (page 51)
GGR	Geography (page 196)
HIS	History (page 207)
ITA	Italian (page 230)
JAL	Linguistics (page 242)
LIN	Linguistics (page 242)
POL	Political Science (page 275)
RLG	History of Religions (page 220)
SOC	Sociology (page 296)
VCC	Visual Culture and Communication (page 315)
WGS	Women and Gender Studies (page 319)

Major Program ERMAJ1407 Diaspora and Transnational Studies (Arts)

7.0 credits, including at least 2.0 300+ level credit.

Students must successfully complete the equivalent of 7.0 credits, fulfilling ALL of the following requirements:

1. DTS201H5 and DTS202H5
2. 5.0 credits from Group A and B courses, with at least 2.0 credits from each group.
3. Coverage must include at least two diasporic communities or regions, to be identified in consultation with the program advisor.
4. 1.0 credit from the following list of St. George courses: DTS401H1, DTS402H1, DTS403H1, DTS404H1 (should be taken in the fourth year of study).

Minor Program ERMIN1407 Diaspora and Transnational Studies

4.0 credits, including at least 1.0 300+ level credit.

Students wishing to do a Diaspora and Transnational Studies Minor Program must successfully complete the equivalent of 4.0 credit, fulfilling ALL of the following requirements:

1. DTS201H5 and DTS202H5
2. 2.5 credits from Group A and B courses, with at least 1.0 credit from each group.
3. 0.5 credit from the following list of St. George courses: DTS401H1, DTS402H1, DTS403H1, DTS404H1 (should be taken in the fourth year of study)

Group A = Humanities courses.

Group B = Social Sciences 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. Please see the Faculty of Arts & Science Calendar for details.

U of T Mississauga Courses**Group A: Humanities courses**

ENG271H5, 272H5, 370H5; FAH457H5; FRC397H5; HIS266H5, 318H5, 330H5, 366H5, 367H5, 371H5, 383H5, 384H5, 386H5, 390H5, 391H5, 393H5, 454H5, 478H5, 479H5; ITA238H5, 239H5; LIN366H5, 466H5, RLG352H5; VCC302H5, 304H5; WGS335H5, 350H5, 369Y5.

Group B: Social Science courses

ANT204Y5, 206Y5, 241Y5, 304H5; GGR207H5; JAL253H5; POL114H5, 218Y5, 343Y5, 360H5, 362H5,

363H5; SOC236H5, 302H5, 328H5, 332H5, 333H5, 339H5, 353H5, 354H5.

Students are responsible for checking the co- and prerequisites for all courses.

Arts & Science courses that can be applied to the program

- **Anthropology:** ANT347Y1, 426H1, 440Y1, JAP256H1
- **English:** ENG256Y1, 277Y1, 279Y1
- **Fine Art History:** FAH466H1
- **Finno Ugric Studies:** FIN320H1
- **French:** FRE332H1, 431H1
- **Geography:** GGR350H1, 340H1, 363H1, 452H1
- **German:** GER362H1, 364H1
- **History:** HIS206Y1, H208Y1, 294Y1, 296Y1, 303Y1, 305H1, 326Y1, 352H1, 356H1, 359H1, 360Y1, 370H1, 476Y1, 394H1, 417H1, 446Y1, 456Y1, 480H1, 487H1
- **Innis College:** INI327Y1
- **Italian Studies:** ITA233Y1, 334H1, 493H1
- **Near and Middle Eastern Civilizations:** NMC274Y1, 357H1, 370Y1, 385H1, 475H1
- **New College:** NEW150Y1, 296Y1, 223Y1, 224Y1, 324Y1, 325H1, 326Y1, 343H1, 368H1, 369Y1
- **Political Science:** POL349Y1, 358Y1, 443H1
- **Religion:** RLG341H1, 430H1
- **St. Michael's College:** SMC413H1, 414H1, 416H1
- **Slavic Language and Literature:** SLA238H1
- **Sociology:** SOC218Y1, 341Y1, 344Y1, 383H1
- **Spanish and Portuguese:** SPA480H, 486H1
- **Victoria College:** VIC350Y1

UTSC courses that can be applied to the program

- **English:** ENGB17H3, ENGC13H3, 70H3, 71H3, ENGD87H3
- **French:** FREB28H3, 35H3, 70H3, FREC47H3
- **History:** HISC14H3, 36H3, 45H3
- **Visual and Performing Arts:** VPAB09H3, VPHB50H3, VPHC52H3
- **Anthropology:** ANTB08H3, ANTC34H3
- **Geography:** GGRC19H, 45H3
- **Politics:** POLA81H3
- **Sociology:** SOCC25H3, 34H3

Students are responsible for checking the co- and prerequisites for all courses

Note: course = one full course or the equivalent in half courses. Please see the Faculty of Arts & Science and/or Scarborough calendars for details.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

DTS201H5 Introduction to Diaspora and Transnational Studies I (HUM,SSc)

An interdisciplinary introduction to the study of diaspora, with particular attention to questions of history, globalization, cultural production and the creative imagination. Material will be drawn from Toronto as well as from diasporic communities in other times and places. [24L]
Exclusion: DTS201H1, DTSB01H3

DTS202H5 Introduction to Diaspora and Transnational Studies II (HUM,SSc)

A continuation of DTS201H5. An interdisciplinary introduction to the study of diaspora, with particular attention to questions of history, globalization, cultural production and the creative imagination. Material will be drawn from Toronto as well as from diasporic communities in other times and places. [24L]
Exclusion: DTS202H1, DTSB02H3
Prerequisite: DTS201H5

Earth Science (HBSc)

Professors Emeriti

H.C. Halls, B.Sc., M.Sc., Ph.D.
P-Y F. Robin, M.Sc., Ph.D., P.Eng.

Professors

J. Halfar, Diplom, Ph.D., Habilitation
L.M. Schoenbohm, B.A., Ph.D.
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Earth Science is concerned with the origin, evolution and structure of Earth (and other planets), through the analysis of physical, chemical and biological processes.

In the last 40 years the field has been revolutionized by the discovery that the Earth's surface is a mosaic of plates that is continually moving, growing at mid-ocean ridges, and being consumed beneath mountain ranges. Modern global data sets provided by satellites continue to improve our understanding of these processes and of their environmental impact. Although exploration for natural resources continues to be the traditional vocation of geoscientists in the community, they are now playing a vital role responding to increased public and scientific awareness of environmental problems and issues.

Despite increasing sophistication in computer, satellite and analytical techniques, field observation remains a cornerstone of Earth Science. A career in Earth Science therefore can lead not only to laboratory or office-based opportunities, but also offers scope to work in many parts of the world, under a range of field conditions. Oil and mining companies engaged in exploration and development, and those involved with environmental hazards, such as waste disposal, are all major employers of Earth Scientists. Provincial and Federal Geological Surveys also employ Earth Scientists and offer summer field assistantships. Other employment opportunities are in consulting, universities, and museums.

U of T Mississauga offers Specialist, Major and Minor programs in Earth Sciences. These programs have four main aims: (1) to teach the fundamental processes involved

in the global Earth system, with emphasis on the interactions between the solid Earth and its oceans, atmosphere and biosphere; (2) to understand the principal aspects of a sustainable and sufficient supply of natural resources; (3) to study the cause and mitigation of hazards such as earthquakes, volcanic eruptions and groundwater contamination, and (4) to learn how to minimize and adjust to global and environmental change. This approach, by focusing on a more global environmental perspective, should appeal to students who have a general interest in geological processes and their fundamental effects on the environment.

Students may combine Earth Science courses with those from other fields, in any one of four approved areas of Study; Earth Science & Anthropology, Earth Science and Chemistry, Earth Science & Physics, and Geoarchaeology. A specialist in Geology is also available for students interested in pursuing careers in the resource industries or graduate studies in Geology. Many of our courses will be useful to students specializing in other fields such as Commerce, Geography, History, and Biology.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CHM	Chemistry (page 92)
ENV	Environment (page 166)
ERS	Earth Science (page 139)
GGR	Geography (page 196)
MAT	Mathematics (page 256)
PHY	Physics (page 270)

Specialist Program ERSPE1465 Earth Science (Science)

Within an Honours degree, 11.0 credits are required, including at least 4.0 at the 300/400 level, of which 1.0 must be at the 400 level.

Limited Enrolment – Enrolment in this program is restricted to students who have obtained a minimum grade of 60% in ENV100Y5/ (ERS103H5, 120H5).

First Year: ENV100Y5/ (ERS103H5, 120H5); CHM140Y5/ (110H5,120H5); MAT134Y5/ 135Y5/ 137Y5; PHY135Y5/ (136H5,137H5)

Second Year: ERS201H5, 202H5, 203H5; GGR217H5, 1.0 credit from GGR214H5, 227H5, 276H5, 278H5; PHY237H5

Third Year: ERS315H5, 317H5, 319H5, 321H5, 325H5; 0.5 credit from GGR315H5, 316H5, 317H5, 321H5, 337H5, 379H5

Fourth Year: 1.0 credit from ERS470Y5, (471H5, 472H5); ENV400Y5

Major Program ERMAJ1465 Earth Science (Science)

7.5 credits are required, including at least 2.5 at the 300/400 level.

Limited Enrolment – Enrolment in this program is based on completion of 4.0 credits including ENV100Y5 / (ERS103H5, 120H5) (minimum grade of 60%).

First Year: ENV100Y5/ (ERS103H5, 120H5); MAT134Y5/ 135Y5/ 137Y5; CHM140Y5/ (110H5,120H5)/PHY135Y5/ (136H5,137H5)

Second Year: ERS201H5, 202H5, 203H5; 0.5 credit from GGR214H5, 217H5, 227H5, 276H5, 278H5

Third and Fourth Year: ERS315H5, 317H5, 319H5, 321H5, 325H5

Minor Program ERMIN1465 Earth Science (Science)

4.0 credits are required.

Limited Enrolment – Enrolment in this program is based on completion of 4.0 credits including ENV100Y5 / (ERS103H5, 120H5) (minimum grade of 60%).

First Year: ENV100Y5/ (ERS103H5, 120H5)

Second, Third and Fourth Year: ERS201H5, 202H5, 203H5; 1.5 Earth Science credits at the 300/400 level.

Notes:

1. See also the Environmental Science Program, which combines Biology, Earth Science, and Geography.
2. Approved areas of study are: Earth Science and Anthropology, Earth Science and Chemistry, Earth Science and Physics, and Geoarchaeology. Consult faculty advisor for the details of these programs.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

ERS103H5 Geology and Public Issues (SCI)

"Civilization exists by geological consent, subject to change without notice." (Will Durant, 1885-1981). Our life is totally dependent on our planet and on what she provides. This course is an overview of our relationship with Earth: how she supports us, how she affects us, and how we affect her. After a quick introduction to how Earth works, topics discussed will include volcanic eruptions, earthquakes, landslides, mineral, energy and water resources, weather and climate change. As citizens of the world, we are, and will increasingly be, required to make decisions about our relation with Earth: we need to be sufficiently informed to contribute to the consequent debates. [24L]

ERS120H5 Planet Earth (SCI)

We discuss the age and origin of the Earth, the nature of its deep interior, the origin of mountains, oceans, earthquakes and volcanoes, and show how these features are related in a unifying theory known as Plate Tectonics, that explains how the evolution of the Earth's surface is driven by internal processes. Tutorials will include laboratory exercises devoted to the understanding and recognition of minerals, rocks and geological structures. [24L, 12P]
Recommended Preparation: Review of Grade 9/10 Physical Science.

ERS201H5 Earth Materials (SCI)

An examination of the materials (minerals and rocks) that form the Earth: intrusive, volcanic, metamorphic and sedimentary rocks are interpreted in the context of Plate Tectonics. An optional weekend field trip to the Algonquin-Bancroft area of eastern Ontario is offered. [24L, 36P]
Prerequisite: ENV100Y5/ ERS103H5/ 120H5

ERS202H5 Dynamic Earth (SCI)

An introduction to geological time and the dynamic evolution of the surface and of the interior of the Earth. Lectures discuss the processes involved in the formation of Earth's crust, with particular focus on the structure of rocks. Practical exercises aim to teach the methods that are used to understand the geometry of rock units and the geological history of an area from information presented in geological maps. [24L, 36P]
Prerequisite: ERS201H5/P.I.

ERS203H5 Rock Forming Processes (SCI)

Many geological processes lead to the wide diversity of rocks found on and in the Earth. Melting of rocks at depth leads to volcanic activity and emplacement of magmas, forming igneous rocks. Weathering, erosion, and transport destroy mountains, carve the landscape we live in, and accumulate sedimentary rocks. Heat and pressure within the Earth metamorphose rocks as they are buried. This course focuses on how these processes can be understood by examination of rocks in the field, hand sample and thin section. [24L, 36P]
Prerequisite: ERS201H5

ERS299Y5 Research Opportunity Program (SCI)

This courses provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

ERS315H5 Environmental Geology (SCI)

This course will focus on Earth processes as they relate to human activities. Topics include global climate change on short and long timescales; groundwater flow and contamination/human engineering of Earth processes; geological aspects of pollution and waste disposal; and environmental impact of extracting/using minerals, energy, soil, and other Earth resources. A field trip will give students a first-hand experience in aspects of human/planet interaction. [36L]
Prerequisite: **Two of:** ERS201H5, 202H5, 203H5

ERS317H5 Geological Hazards (SCI)

Earthquakes, volcanic eruptions, tsunamis, and landslides are examples of sudden, sometimes catastrophic, events that occur in response to forces that originate deep in the Earth's interior and which, together with the action of water and wind, are continually reshaping the Earth's surface. This course will cover methods used to monitor, predict and control these potentially hazardous phenomena. Recent theories that asteroidal impacts with Earth have caused periodic mass extinctions of life will also be discussed. [24L, 12T]
Prerequisite: ERS202H5/ 203H5
Offered in alternate years with ERS319H5. Offered in 2012-13.

ERS319H5 Earth Resources (SCI)

The formation and global distribution of precious and industrial mineral deposits are introduced. Exploration methods and mining practices are discussed in terms of environmental effects and issues. Basic aspects of the economics and strategic importance of mineral reserves are also covered. Weekly field trips are included. [24L, 48P]

Prerequisite: ERS201H5

Offered in alternate years with ERS317H5. Not offered in 2012-13.

ERS321H5 Past and Present Global Change (SCI)

The goals of this course are to discuss the geologic record of climate change and present an overview of the methods used to reconstruct the earth's climate history and the techniques used to determine the timing of environmental changes. Topics to be addressed will include paleoclimatic reconstruction, climate and climatic variation, dating methods, and climate proxies. In addition, periods of past climate change will be highlighted with particular emphasis on climate change during the recent past. [36L]

Prerequisite: **Two of:** ERS201H5, ERS202H5, ERS203H5

ERS325H5 Field Camp I (SCI)

This course, held on the north shore of Lake Huron in the summer, covers geological mapping skills, stratigraphic section measurements, and the recognition of rock types, fossils and geological structures in the field in order to interpret ancient geological environments. Students must pay the cost of transportation and accommodation. [10 days of field instruction]

Note: This course is identical to GLG340H1. U of T Mississauga students must register in the Summer Session. This field camp is held in early Spring or late Summer.

Registration deadline: Feb. 15

Fee payment deadline: For information, go to:

www.geology.utoronto.ca/students/undergraduate-students/course-listing/3rd-year-courses/glg340h1/

Exclusion: GLG340H1

Prerequisite: ERS202H5, 203H5

ERS399Y5 Research Opportunity Program (SCI)

This course provides a richly rewarding opportunity for third or higher year students to work on the research project of a professor in earth sciences in return for 399Y course credit. Students enrolled have an opportunity to become involved in original research, enhance their research skills and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project description for the following summer and fall/winter session on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

ERS470Y5 Research Thesis (SCI)

Arrangements for these independent research projects must be made with an Earth Science Faculty member before registration. Copies of the completed thesis must be submitted one week prior to the end of term classes. A component of the mark will be based on an oral presentation made at the end of the course.

Exclusion: ERS471H5/ 472H5

Prerequisite: Any 2.0 credits from the ERS300 or GLG300(G) level, plus a 75% average in the last five courses taken.

ERS471H5 Research Project (SCI)

Arrangements for these independent research projects must be made with an Earth Science Faculty member prior to registration. Copies of the completed report must be submitted one week prior to the end of term classes. Students may take both ERS471H5 and 472H5 in the same term. A component of the mark will be based on an oral presentation made at the end of the course.

Exclusion: ERS470Y5

Prerequisite: Any 2.0 credits from the ERS300 or GLG300(G) level, plus a 75% average in the last 5 courses taken.

NOTE: This half credit (0.5) course may be offered over the Fall Term(ERS471H5F), Winter Term(ERS471H5S) and over the full Academic Year(ERS471H5Y).

ERS472H5 Research Project (SCI)

Arrangements for these independent research projects must be made with an Earth Science Faculty member prior to registration. Copies of the completed report must be submitted one week prior to the end of term classes. Students may take both ERS471H5 and 472H5 in the same term. A component of the mark will be based on an oral presentation made at the end of the course.

Exclusion: ERS470Y5

Prerequisite: Any 2.0 credits from the ERS300 or GLG300(G) level, plus a 75% average in the last 5 courses taken.

NOTE: This half credit (0.5) course may be offered over the Fall Term(472H5F), Winter Term(ERS472H5S) and over the full Academic Year(ERS472H5Y).

Ecology and Evolution (HBSc)

This program is offered through the Biology Department.

Economics (HBA, BCom)

Professors Emeriti

S.M. Eddie, B.Sc., Ph.D.
J.E. Floyd, B.Com., M.A., Ph.D.
M.J. Hare, B.Com.
J.A. Hynes, A.B.

Professors

V. Aivazian, B.S., M.A., Ph.D.
G.J. Anderson, B.A., M.Sc., Ph.D.
R. Deb, B.Tech., M.Phil., M.A., Ph.D.
M. Duarte, B.A., M.A., Ph.D.
M. Faig, Licenciatura, M.A., Ph.D.
G. Hamilton, B.Sc., M.A., Ph.D.
G. Kambourov, B.A., M.A., Ph.D.
N. Li, B.A., M.A., Ph.D.
J. Maheu, B.A., M.S., Ph.D.
R. McMillan, B.A., Ph.D.
A. Melino, B.A., Ph.D.
P. Oreopoulos, B.A., M.A., Ph.D.
A. Park, M.Phil., Dipl.Wirt.Math, Ph.D.
C. Pitchik, B.A., M.Sc., Ph.D.
F. Reid, B.A., M.Sc., Ph.D.
X. Shi, B.Sc., M.A., Ph.D.
L. Turner, B.A., M.Sc., Ph.D.
R. Wolthoff, B.Sc., M.Sc., Ph.D.
X. Zhu, B.Sc., M.Sc., Ph.D.

Chair and Faculty Advisor

Professor V. Aivazian

Associate Chair and Faculty Advisor

Professor J. Maheu

Lecturers

L. Bailey, B.A., M.A.
S. Sharma, B.A., M.A., Ph.D.
K. Wong, B.A., M.A., Ph.D.

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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, as several Economics courses draw on mathematical analysis.

Owing to 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.

First year preparation: ECO100Y5 and MAT133Y5/ 134Y5/ 135Y5/ 137Y5.

Notes:

- The enrolment in most Economics courses above the 100 level and, therefore, in all Economics programs, is based on grades in ECO100Y5 and, in some cases, MAT133Y5/ 134Y5/ 135Y5/ 137Y5. ECO200Y5/ 204Y5/ 206Y5 and ECO220Y5/ 227Y5/ STA(250H1,257H5)/STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5), are required for most 300-level ECO courses. Students should consult this calendar and the U of T Mississauga Registration Guide (available at www.utm.utoronto.ca/reg) which set out the course enrolment criteria. Not all courses are offered each year.

- Academic performance requirements are necessary as a condition for enrolment into 200-level ECO courses. (See *Prerequisites* listed under each course).
- Prerequisites must be met before registering in Economics courses. These prerequisites are checked carefully by the department. It is the student's responsibility to ensure that the proper prerequisites have been met. Students may check with the Economics counsellor if they are not sure whether prerequisites are met.
- Students wishing to use courses from other institutions for prerequisite purposes must submit a copy of their transcript to the Economics counsellor before classes begin. Students who do not have the relevant prerequisites will be deregistered from those courses after classes have begun. It may then be too late to enrol in another course, consequently an additional term or year may be necessary to meet degree requirements.

Enrolment in Economics programs is based on grades in ECO100Y5 and, in some cases, MAT133Y5/ 134Y5/ 135Y5/ 137Y5.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
ECO	Economics (page 143)
MAT	Mathematics (page 256)
MGM	Management (page 248)
MGT	Management (page 248)
STA	Statistics (page 306)

Specialist Program ERSPE0137 Economics (Commerce and Finance)

Within a BCom degree, 15.5 credits are required.

Limited Enrolment – This program may only be taken jointly with the Specialist program in Commerce and Finance and leads to a BCom degree. Students must be accepted in the Commerce and Finance (BCom) Program in order to complete this Economics (BCom) program. Enrolment in this program is limited to students with 70% in ECO100Y5 AND (80% in MAT133Y5 or 63% in MAT134Y5/ 135Y5 or 60% in MAT137Y5) AND 63% in MGT120H5 AND a minimum cumulative GPA which is determined annually. Students must be accepted in ERSPE2273 to qualify for this program.

First Year: ECO100Y5; MAT133Y5/ 134Y5/ 135Y5/ 137Y5; MGT120H5; MGM101H5

Higher Years:

1. Additional MGT Requirements (5.0 credits)
 - (a) MGT123H5/ 223H5, 220H5, 337Y5/ (338H5,339H5)
 - (b) 1.0 credit from: MGT252H5, 262H5, 353H5, 363H5, 371H5/ 422H5, 374H5, 393H5
 - (c) 1.0 credit in MGT at 400 level
 - (d) 1.0 credit in MGT at 200+ level
 - (e) No more than 15.0 credits in COM(G), MGD, MGT, MGM and ECO may be counted toward degree. STA248H5/ 258H5, 257H5, 261H5 count as ECO credits
2. Additional ECO Requirements (6.5 credits):
 - (a) ECO206Y5, 208Y5, 227Y5/ STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5)
 - (b) ECO327Y5
 - (c) One Economic History credit from: ECO322Y5/ 323Y5
 - (d) ECO325H5, 326H5, plus 0.5 additional ECO credit at the 300+ level
3. Writing Component (1.0 credit): One credit from the following: ANT204Y5/ 204H5; CLA (except 201H5); one of (ECO322Y5, 323Y5, 333Y5, 336Y5, 361Y5, 369H5, 373Y5, 456H5); ENG; FAH; HIS; HPS(G); LIN; PHL (except 245H5, 246H5, 247H5, 344H5, 345H5, 346H5, 347H5); POL; RLG; SOC (excluding SOC300Y5); WRI.

Specialist Program ERSPE1478 Economics (Arts, B.Com.)

Within an Honours degree, 13.0 credits are required.

Limited Enrolment – Enrolment in this program is limited to students with 70% in ECO100Y5 and (80% in MAT133Y5 or 63% in MAT134Y5/ 135Y5 or 60% in MAT137Y) and a CGPA of 2.3.

First Year: ECO100Y5; MAT133Y5/ 134Y5/ 135Y5/ 137Y5

Higher Years:

1. ECO206Y5, 208Y5, 227Y5/ STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5), ECO322Y5, 325H5, 326H5, 327Y5
2. ECO323Y5
3. 4.0 additional 300+ level ECO credits, including at least 1.0 at the 400 level

Specialist Programs**Note:**

1. Economics Specialist Program **ERSPE1478** leads to an Honours BA degree.
2. Economics (Commerce and Finance) Specialist Program **ERSPE0137** can only be taken jointly with the Specialist program in Commerce and Finance, and thus leads to a BCom degree.
3. Enrolment in Economics (Commerce and Finance) Specialist Program **ERSPE0137** Program is open only to those who have been admitted to the BCom degree program.
4. ECO205Y5, ECO244Y5, and ECO261H5 cannot be used as requirements for this program.

Major Program ERMAJ1478 Economics (Arts, B.Com.)

7.0 credits are required.

Limited Enrolment – Enrolment in the Major program is limited to students with 67% in ECO100Y5 and a CGPA of 2.0, or 63% in ECO100Y5Y and a CGPA of 2.5

First Year: ECO100Y5; MAT133Y5/ 134Y5/ 135Y5/ 137Y5

Second Year: ECO200Y5/ 204Y5/ 206Y5, 202Y5/ 208Y5/ 209Y5, 220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5)

Higher Years: 2.0 additional 300/400 level ECO credits, 1.0 of which must include as prerequisites two of ECO200Y5/ 204Y5/ 206Y5, 202Y5/ 208Y5/ 209Y5, 220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5)

NOTE: ECO205Y5, ECO244Y5, and ECO261H5 cannot be used as requirements for this program.

Minor Program ERMIN1478 Economics (Arts, B.Com.)

4.0 credits are required, including one ECO course at the 300/400 level.

Limited Enrolment – Enrolment in the Minor program is limited to students with 67% in ECO100Y5 and a CGPA of 2.0, or 63% in ECO100Y and a CGPA of 2.5.

First Year: ECO100Y5; MAT133Y5 (63%)/ 134Y5/ 135Y5/ 1375

Second Year: One of ECO200Y5/ 204Y5/ 206Y5

Higher Years: One additional ECO credit at the 300/400 level. No more than one Economic History course is permitted in this program. ECO205Y5, ECO244Y5, and ECO261H5 cannot be used as requirements for this program.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses**ECO100Y5 Introduction to Economics (SSc)**

A survey course with emphasis on the basic concepts and techniques of macro and micro economic theory. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; the derivation and use of supply and demand schedules; the theory of the firm; and principles of comparative advantage and foreign exchange fluctuations. [48L, 24T]

ECO200Y5 Microeconomic Theory (SSc)

An intermediate treatment of the basic tools of economic analysis. Applications may include: choice under uncertainty, oligopoly, industrial organization, pricing, resource allocation, externalities, public goods, income distribution and welfare economics. [48L, 24T]

Exclusion: ECO204Y5, 205H5, 206Y5

Prerequisite: ECO100Y5 (67%), or ECO100Y5 63% and a CGPA of 2.5, MAT133Y5/ 134Y5/ 135Y5/ 137Y5

ECO202Y5 Macroeconomic Theory and Policy (SSc)

Macroeconomics studies the economy as a whole. The issues it covers include: Why are some countries much richer than others? Why do most Canadians live much better than their ancestors? Why are there recessions in economic activity? What are the causes of inflation and unemployment? What are the consequences of opening up trade and investment with the rest of the world? This course develops a series of models to answer these and similar questions. [48L, 24T]

Exclusion: ECO208Y5/ 209Y5

Prerequisite: ECO100Y5 (67%), or ECO100Y5 (63%) and a CGPA of 2.5.

Corequisite: MAT133Y5/ 134Y5/ 135Y5/ 137Y5

ECO204Y5 Microeconomic Theory and Applications (for Commerce) (SSc)

The course uses microeconomics to analyze a variety of issues from marketing and finance to organizational structure. Topics include consumer preferences and behaviour; demand, cost analysis and estimation; allocation of inputs, pricing and firm behaviour under perfect and imperfect competition; game theory and public policy, including competition policy. Business cases are used to connect theory and practice and to highlight differences and similarities between economics and accounting, marketing and finance. This course is restricted to students in the B.Com. program. [48L, 24T]

Exclusion: ECO200Y5, 205Y5, 206Y5

Prerequisite: ECO100Y5 (67%), or ECO100Y5 63% and a CGPA of 2.5; MAT133Y5/ 134Y5/ 135Y5/ 137Y5

ECO205Y5 Microeconomic Theory and Applications (for Management) (SSc)

The course uses microeconomics to analyze a variety of issues from marketing and finance to organizational structure. Topics include demand, cost analysis and estimation; allocation of inputs, pricing and firm behaviour under perfect and imperfect competition; game theory and competition policy. Emphasis will be placed upon business cases which are used to connect theory and practice and to highlight differences and similarities between economics and accounting, marketing and finance. This course is restricted to students in the Management Specialist Program. [48L, 24T]

Exclusion: ECO200Y5, 204Y5, 206Y5

Prerequisite: ECO100Y5 (63%)

ECO206Y5 Microeconomic Theory (SSc)

A rigorous mathematical treatment of the basic tools of economic analysis regarding consumer and producer theory. Applications may include but are not limited to: choice under uncertainty, oligopoly, industrial organization, pricing, resource allocation, intertemporal consumption, labour supply, externalities, public goods, income distribution and welfare economics. This course is a requirement for certain Specialist Programs and is strongly recommended for students contemplating graduate school. [48L, 24T]

Exclusion: ECO200Y5, 204Y5, 205Y5

Prerequisite: ECO100Y5(70%); MAT133Y5 (80%)/ 134Y5/ 135Y5(63%)/ 137Y5(60%)

ECO208Y5 Macroeconomic Theory (SSc)

This course deals more rigorously with the topics included in ECO202Y5. It is a requirement for certain Specialist Programs and strongly recommended for students contemplating graduate school. [48L, 24T]

Exclusion: ECO202Y5/ 209Y5

Prerequisite: ECO100Y5(70%); MAT133Y5 (80%)/ 134Y5/ 135Y5(63%)/ 137Y5(60%)

ECO209Y5 Macroeconomic Theory and Policy (SSc)

This course covers the same topics as ECO202Y5, but with emphasis on the applications useful to Commerce students. The course is only open to students in the B.Com. (Commerce and Finance) Program. [48L, 24T]

Exclusion: ECO202Y5, 208Y5

Prerequisite: ECO100Y5 (67%), or ECO100Y5 (63%) and a CGPA of 2.5.

Corequisite: MAT133Y5/ 134Y5/ 135Y5/ 137Y5

ECO220Y5 Quantitative Methods in Economics (SSc,SCI)

An introduction to the use of statistical analysis, including such topics as elementary probability theory, sampling distributions, tests of hypotheses, estimation; analysis of variance and regression analysis. Emphasis is placed on applications in economics and business problems. [48L, 24T]

Exclusion: BIO360H5, 361H5; ECO227Y5;

MAT(123H1,124H1); STA218H5, 220H5, 221H5, STA250H1, 248H5/ 258H5, 255H1, 257H5, 261H5; PSY201H5, 202H5; SOC350H5, 351H5

Prerequisite: ECO100Y5 (67%), or ECO100Y5 (63%) and a CGPA 2.50; MAT133Y5/ 134Y5/ 135Y5/ 137Y5

ECO227Y5 Quantitative Methods in Economics (SSc,SCI)

This course deals more rigorously with the topics included in ECO220Y5. It is a requirement for certain Specialist Programs and is strongly recommended to adequately prepare students for ECO327Y5. This course is also recommended for students contemplating graduate school. [48L, 24T]

Exclusion: BIO360H5, 361H5; ECO220Y5; STA218H5, 220H5, 221H5, 248H5/ 258H5, 250H1, 255H1, 257H5, 261H5; PSY201H5, 202H5; MAT(123H1,124H1); SOC350H5, 351H5

Prerequisite: ECO100Y5(70%); MAT133Y5 (80%)/ 134Y5/ 135Y5(63%)/ 137Y5(60%)

ECO244Y5 Industrial Relations (SSc)

The role, structure, and performance of industrial relations within the framework of Canada's socio-economic-political system. Growth and history of the Canadian Labour movement: its philosophy and structure. Management's strategies and tactics in collective bargaining; public policy in the field of industrial relations; strikes in so-called emergency situations: the role of unions and collective bargaining in inflation. [48L]

Exclusion: WDW244Y1/ 244H1

Prerequisite: Four full credits and a CGPA of a least 2.0.

ECO261H5 Labour Market Policies (SSc)

This course is designed to provide students in the Human Resources and Industrial Relations program with knowledge of how the labour market affects the employment relationship. The basic tools of labour economics are developed and applied to various issues of organizational and government policy such as: the incentive effects of compensation arrangements, government income support programs, and minimum wage policy; the determinants of preferences for hours of work including job-sharing, overtime and retirement; the impacts of unions on compensation and productivity; public-sector employment and alternatives to the right to strike; discrimination in employment on the basis of gender and race as well as related government policies such as pay and employment equity. [24L]

Exclusion: ECO361Y5/ (343H5,344H5), ECO239Y1

Prerequisite: ECO100Y5

This course is intended primarily for students in the Human Resources and Industrial Relations Major Program.

ECO310Y5 Industrial Organization and Public Policy (SSc)

This applied microeconomics course studies the organization of economic activity in markets and non-market institutions. Emphasis is on the operation of imperfectly competitive markets and the interaction between firms. Strategic decisions by firms, such as pricing, R&D, entry, and patenting, are discussed at length using game theory. Case studies of particular industries supplement the material. Government policies affecting the private sector are also studied in detail: Regulation and deregulation of specific industries, trade policies and antidumping, and competition policy. [48L]

Exclusion: ECO380H5

Prerequisite: ECO200Y5/ 204Y5/ 206Y5; ECO220Y5/ 227Y5/

STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Limited Enrolment

ECO320Y5 An Economic Analysis of Law (SSc)

This course examines the economic basis for the Law. The topics covered include economic analyses of property rights, liability rules, contract law, tort law, corporate law, law and financial markets, and bankruptcy law. The appropriate economic measures of damages in tort and contract cases will be discussed. Other topics include tax law, and the choice between regulation and the common law. [48L]

Prerequisite: ECO200Y5/ 204Y5/ 206Y5,220Y5/ 227Y5/ STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Limited Enrolment

ECO322Y5 History of Economic Thought (SSc)

The course first explores the central ideas that have dominated controversies in the method and history of science in this century. With this material as background, several episodes in the development of economic theory are studied. The goal is an understanding of the structure of economics and its relation to the contemporary understanding of scientific method. [48L]

Exclusion: ECO429Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5,202Y5/ 208Y5/ 209Y5

Recommended Preparation: ECO220Y5/ 227Y5/ STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Limited Enrolment

ECO323Y5 Canadian Economic History (SSc)

(Formerly Canadian Economic Development Since Confederation) Canadian economic growth from the 1600s to World War II. The course emphasizes critical analysis, the application of economic theory to historic issues, and the analysis of empirical evidence. Topics include: indigenous people and the depletion of the beaver, employment of women and children in the early 19th century and their role in manufacturing, the consumer durable revolution of the 1920s, and the Great Depression. Some knowledge of statistics is beneficial. [48L]

Exclusion: ECO321Y1/ 221Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5

Limited Enrolment

ECO324Y5 Economic Development (SSc)

Economic development and transformation of the low-income countries of Latin America, Africa and Asia. Theory and policy analysis relating to the following economic issues in these countries: higher rates of economic growth, the role of the government in resource allocation, the industrial-agricultural sector interface, inward versus outward looking trade strategies, and the international debt problem. The following problems will also be addressed: food supply, domestic savings, tax revenue, foreign exchange, foreign direct investment, high rates of inflation, benefit-cost analysis and economic planning. [48L]

Prerequisite: ECO200Y5/ 204Y5/ 206Y5,202Y5/ 208Y5/ 209Y5,220Y5/ 227Y5/

STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Limited Enrolment

ECO325H5 Advanced Economic Theory - Macro (SSc)

This course studies the economic foundations of macroeconomic theory and develops analytical skills in constructing and solving macroeconomic models. [24L]

Prerequisite: ECO202Y5(70%)/ 208Y5/

209Y5(70%),220Y5/ 227Y5/

STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Limited Enrolment

ECO326H5 Advanced Economic Theory - Micro (SSc)

Content in any given year depends on instructor. Past topics include: advanced analysis of the behaviour of consumers under uncertainty; issues in poverty, inequality and social welfare; game theory and its applications to economics and political economy. [24L]

Exclusion: ECO372Y5

Prerequisite: ECO200Y5(70%)/ 204Y5(70%)/

206Y5,220Y5/ 227Y5/

STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Limited Enrolment

ECO327Y5 Applied Econometrics (SSc)

This course teaches you to use econometric methods. It provides a solid foundation in the theory and practice of those statistical techniques that have proved most useful for analyzing economic data. In addition, computer problem sets and a substantial empirical project (term paper) provide "hands-on training" in formulating and testing economic hypotheses. [48L, 24T]

Exclusion: STA331H5, ECO375H1,376H1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5,202Y5/ 208Y5/

209Y5,220Y5(70%)/ 227Y5/

STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

*To adequately prepare for this course students should take ECO227Y5.

Recommended Preparation: MAT223H5

Limited Enrolment

ECO333Y5 Urban Economics (SSc)

This is a course on the application of economic analysis to four major areas of urban activity. The areas are land markets, housing and buildings, transportation, and public finance. In each area, we will consider the role of the government and attempt to understand the source of many current urban economic problems. [48L]

Prerequisite: ECO200Y5/ 204Y5/ 206Y5,220Y5/ 227Y5/

STA(250H1,257H5)/

STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Limited Enrolment

ECO336Y5 Public Economics (SSc)

This course focuses on market failure and the appropriate role of government in response to market failure. Topics include externalities, public goods provision and public sector reform. The course provides useful conceptual and empirical tools for analyzing policy questions and an understanding of the workings of government in Canada. [48L]

Exclusion: ECO236Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 220Y5/ 227Y5/

STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Limited Enrolment

ECO343H5 Labour Economics and Public Policy (SSc)

This course uses both applied microeconomic theory and empirical analysis to examine labour markets in Canada. The course is especially focused on the link between research and public policy. Topics to be covered include: labour supply and demand, minimum wages, immigration, human capital, education production, inter- and intra-generational equality, and peer effects. At the end of the course, students should have a firm grasp of key policy issues involving Canada's labour market and be able to critique the quality of other empirical studies.

Exclusion: ECO361Y5, 239Y1, 339Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 220Y5/ 227Y5/

STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

ECO344H5 Labour Economics and Market Frictions (SSc)

This course studies the economic behaviour of employers and employees as they interact in the labour market. The class extends beyond basics of labour supply and demand to consider cases when markets are not always perfectly competitive. The course will cover such topics as segmented labour markets, unionization and collective bargaining, unemployment, monopsony, and discrimination.

Exclusion: ECO361Y5, 239Y1, 339Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 220Y5/ 227Y5/

STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

ECO349H5 Money, Banking & Financial Markets (SSc)

This course explores a wide range of topics on the theories of money and banking. The strategy of the course is to develop a series of models to examine the importance of money, banks, and other financial institutions in the way economies work. The topics examined in this framework include: the role of money and the financial system, effects of inflation, bond and stock markets, banks, control of the money supply, and international monetary systems. [24L]

Exclusion: ECO349H1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5,202Y5/ 208Y5/

209Y5,220Y5/ 227Y5/

STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

ECO350Y5 Special Topics in Economics (SSc)

(Formerly Seminar on Selected Subjects) This course covers a special topic in Economics. Content relates to instructor's area of interest, thus the course varies in focus from year to year. Students require specific prerequisites for each course. Details are available from the student advisor or departmental web site. [48L]

Limited Enrolment

ECO352H5 Special Topics in Economics (SSc)

(Formerly Seminar on Selected Subjects) This course covers a special topic in Economics. Content relates to instructor's area of interest, thus the course varies in focus from year to year. Students require specific prerequisites for each course. Details are available from the student advisor or departmental web site. [24L]

Limited Enrolment

ECO358H5 Financial Economics I (SSc)

This course provides an introduction to capital markets and asset pricing. We will cover the role of financial markets, project valuation, expected utility and risk aversion, financial risk, general equilibrium pricing, the Capital Asset Pricing Model, Arbitrage Pricing Theory, derivatives, option pricing, term structure of interest rates, foreign exchange markets, and market efficiency. [24L]

Exclusion: MGT331Y1, 337Y5, 338H5

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 220Y5/ 227Y5/ STA(250H1, 257H5)/

STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5)

***ECO358H5 is not open to Commerce students.**

ECO359H5 Financial Economics II (SSc)

This course provides an introduction to Corporate Finance. Topics covered include: project valuation, firm's capital structure, dividend policy, management control and agency problems, public share offerings, debt offerings and auctions, mergers and acquisition, bankruptcy costs, tax-influences and bank runs. This course is the sequel to ECO358H5. [24L]

Exclusion: MTG331Y1, 337Y5/ 338H5, 339H5

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 220Y5/ 227Y5/ STA(250H1, 257H5)/

STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5)

***ECO359H5 is not open to Commerce students.**

ECO362H5 Economic Growth: Theory and Evidence (SSc)

Examines modern theories of economic growth. Topics include: Growth accounting, theories of physical and human capital accumulation, the economics of ideas, economic institutions and theories of endogenous growth. The discussion will stress the empirical implications of the theories and the relation of these hypotheses to the data and evidence. [24L]

Exclusion: ECO451H1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 202Y5/ 208Y5/ 209Y5, 220Y5/ 227Y5/

STA(250H1, 257H5)/STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5), MAT133Y5/ 134Y5/ 135Y5/ 137Y5

ECO364H5 International Trade Theory (SSc)

An analysis of the nature, effects and policy implications of international trade theory; the theories of comparative costs and reciprocal demands, factor reward equalization, international tariffs and customs unions. [24L]

Exclusion: ECO328Y1, 230Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 202Y5/ 208Y5/ 209Y5

Limited Enrolment

ECO365H5 International Monetary Economics (SSc)

An analysis of the nature, effects and policy implications of international finance; balance-of-payments and foreign exchange analysis; liquidity problems and topics related to current problems in international finance. [24L]

Exclusion: ECO328Y1, 230Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 202Y5/ 208Y5/ 209Y5, 220Y5/ 227Y5/

STA(250H1, 257H5)/STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5)

Limited Enrolment

ECO370Y5 The Economics of Organizations (SSc)

The determinants of the boundary between organizations and markets. Problems of centralization vs. decentralization, authority, coordination and motivation within organizations. Incentives, ownership and property rights. The nature of the employment relationship: explicit and implicit contracts, compensation, relative performance evaluation, career paths, job assignments and promotion. [48L]

Exclusion: ECO381H5, 426H1; MGT310Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 220Y5/ 227Y5/ STA(250H1, 257H5)/

STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5)

Limited Enrolment

ECO373Y5 The Environment: Perspectives from Economics and Ecology (SSc)

(Formerly ECO373H5) The course examines the basic principles of environmental economics and ecology and the interaction between ecological and economic factors. It assesses alternative criteria and objectives for environmental policy. Problems associated with the implementation of environmental policy are analyzed and examined through case studies. [48L]

Exclusion: ECO313H1, 373H5

Prerequisite: ECO100Y5(63%), ECO200Y5/ 204Y5/ 206Y5, or by permission of instructor.

Recommended Preparation: ENV100Y5

Limited Enrolment

ECO380H5 Managerial Economics I: Competitive Strategy (SSc)

This is a course in applied microeconomics. This course will use a series of real world examples, together with theoretical insights from game theory, to answer questions like, why are some industries more profitable than others? Why are some firms profitable while others are not? How can firms create, capture and maintain their profits in the face of competition? The first part of the course will be devoted to the building blocks of strategy, including industry analysis, positioning, and sustainability of competitive advantage. Next we will use game theoretical tools to analyze strategic interaction among firms, such as strategic pricing, entry and competitive bidding. Lastly, the course will cover the scope of the firm and technologic competition. Students shall learn from the course, the ability to identify and categorize major strategic problems, and suggest and evaluate candidate strategies. [24L]

Exclusion: ECO310Y5; MGT310Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5)

Limited Enrolment

ECO381H5 Managerial Economics II: Personnel Economics (SSc)

**ECO380H5 Managerial Economics I: Competitive Strategy is NOT a prerequisite for this course.* This course examines selected material on compensation and incentives in hierarchical organizations. Topics include recruitment and hiring, training, turnover, downsizing, motivating workers, teams, allocating authority and task assignment. [24L]

Exclusion: ECO370Y5, 426H1; MGT310Y1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 261H5)/STA(257H5, 248H5/ 258H5)

Limited Enrolment

ECO383H5 Economics of Education (SSc)

This is a one-semester course in applied microeconomic policy analysis. It covers a series of interesting issues in the growing field of the Economics of Education. Topics include privatization in education and school vouchers, the effects of class size on student outcomes, valuing the benefits of education, and student loans. The course will begin with a survey of the main techniques in empirical analysis, which will be useful later in the course when discussing recent research in the field.

Exclusion: ECO351H5(2007W); ECO338H1

Prerequisite: ECO200Y/204Y5/ 206Y; ECO220Y/227Y/STA(250H1, 257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5); MAT133Y/135Y/137Y

Limited Enrolment

ECO385H5 Economics of Information (SSc)

This course analyses how markets function when market participants have asymmetric information. We will show how asymmetric information may lead to market breakdown and how an appropriately designed contract can help alleviate the adverse effect of asymmetric information on market efficiency. We will cover three types of models: moral hazard, screening and signaling. There are a wide variety of applications, including labour contracts, price discrimination, insurance markets, and marketing. [24L]
Prerequisite: ECO200Y5/ 204Y5/ 206Y5,220Y5/ 227Y5/ STA(250H1,257H5)/ STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

ECO399Y5 Research Opportunity Program (SSc)

This course provides senior undergraduate students who have developed some knowledge of a discipline and its research methods, an opportunity to work in the research project of a professor in return for course credit. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Project descriptions for participating faculty members for the following summer and fall/winter sessions are posted on the ROP website (www.utm.utoronto.ca/428.0.html) in mid-February and students are invited to apply at that time. See also Research Opportunity Program (299Y, 399Y and 499Y) (Page 327).

Prerequisite: Minimum of 10.0 credits

ECO400Y5 Economics Internship (SSc)

Through a part time, unpaid, 200-hour work placement, fourth year students apply economics content and skills. Placements are made throughout the GTA in both the private and public sectors. Successful candidates gain an opportunity to enhance their University experience through on-site work placements providing the possibility to develop skill sets within a business setting. Monthly class meetings plus year-end report and presentation are required. **This opportunity is restricted to students in an Economics Specialist Program.** Apply to Course Director: Professor K. Wong Room #114C Kaneff Centre Email: kn.wong@utoronto.ca

Exclusion: ENV400Y5; BIO400Y5

Prerequisite: Fourth year standing in Economics Specialist Program; 3.0 CGPA (Recommended CGPA to be determined annually)

ECO420Y5 Reading Course, Seminar or Workshop (SSc)

Primarily for advanced Specialist students who have exhausted course offerings in a particular subject area. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the chair or associate chair before enrolling. See the student advisor for details.

Exclusion: ECO421H5, 422H5

ECO421H5 Reading Course, Seminar or Workshop (SSc)

Primarily for advanced Specialist students who have exhausted course offerings in a particular subject area. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the chair or associate chair before enrolling. See the student advisor for details.

Exclusion: ECO420Y5

ECO422H5 Reading Course, Seminar or Workshop (SSc)

Primarily for advanced Specialist students who have exhausted course offerings in a particular subject area. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the chair or associate chair before enrolling. See the student advisor for details.

Exclusion: ECO420Y5

ECO433H5 Family Economics (SSc)

Introduces students to the study of the family within the modern economics. Topics include: market production vs. home production; gender wage differentials in labour markets; monogamy, polygamy and marriage markets; non-altruistic behaviour within families; fertility and the demand for children; divorce; and the life cycle of the family. Concepts are applied to current topics within the development and labour literatures. [24L]

Exclusion: ECO332H1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 202Y5/ 208Y5/ 209Y5, 220Y5/ 227Y5/ STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Limited Enrolment

ECO434H5 Forecasting Methods in Macroeconomics & Finance (SSc)

This course introduces time-series forecasting methods for macroeconomics and finance. Topics may include ARMA models, cointegration, vector autoregressions, state-space modeling, and volatility models. Estimation, inference and forecasting using real world data are emphasized. The course makes extensive use of the free statistical software R. No prior knowledge of R is required. [24L]

Exclusion: ECO462H1

Prerequisite: ECO200Y5/ 204Y5/ 206Y5, 202Y5/ 208Y5/ 209Y5, 220Y5/ 227Y5/ STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Recommended Preparation: MAT223H5 and ECO327Y5

Limited Enrolment

ECO436H5 Measuring Well Being (SSc)

The course concerns itself with measuring societal economic well being. The historical development of the subject is considered together with the conceptual issues (and objections) associated with representing the welfare of economic agents. Different notions of welfare (Poverty, Inequality, Polarization, Equality of Opportunity) and the various empirical techniques for examining them are critically explored and applied using existing datasets.

Prerequisite: ECO200Y5/ 204Y5/ 206Y5,202Y5/ 208Y5/ 209Y5,220Y5/ 227Y5/ STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,258H5) Limited Enrolment

ECO440H5 Special Topics: Advanced Topics in Financial Economics (SSc)

This course deals with the following topics in financial economics: (1) Theoretical and empirical issues concerning the relevance of corporate financial structure; (2)

Interactions between corporate investment and financing decisions; and (3) The role of the financial system and the legal system in economic development and growth. There is no required textbook. The course will rely quite extensively on readings of journal articles. A recommended book is: T. Copeland, J. Weston, K. Shastri, Financial Theory and Corporate Policy, Addison-Wesley, 2005, fourth edition.

Prerequisite: ECO206Y5 (70%); ECO208Y5 (70%); ECO227Y5 (70%); ECO358H5

Limited Enrolment. For further information please contact the Economics Academic Counsellor.

ECO456H5 Public Policy Analysis (SSc)

(Formerly ECO356H5) This course provides an opportunity for students to work with real-world data to address current public policy questions. The course discusses issues that arise when analyzing non-experimental social science data and will teach students to recognize the types of research designs that can lead to convincing policy conclusions. A hands-on approach will be emphasized. [24L]

Exclusion: ECO356H5

Prerequisite: ECO200Y5/ 204Y5/ 206Y5,202Y5/ 208Y5/ 209Y5,220Y5/ 227Y5/ STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Corequisite: ECO327Y5 or at least 70% in ECO220Y5/ ECO227Y5

ECO460H5 Introduction to Financial Risk Management (SSc)

(Formerly ECO460Y5) This course provides an overview of financial risks which include market risk, credit risk and operational risk. It also discusses the importance of managing these risks and introduces students to basic tools for analyzing and managing them. [24L]

Exclusion: ECO460Y5

Prerequisite: ECO200Y5(70%)/ 206Y5,220Y5(70%)/ ECO227Y5/ STA(257H5,261H5)/STA(257H5, 248H5/ 258H5)

Limited Enrolment

ECO461H5 The Economics of Financial Risk Management (SSc)

(Formerly ECO460Y5) This course focuses on how to use derivative securities to manage financial risks. It includes a discussion of why firms should hedge financial market risk, identification and quantification of financial risks; the value-at-risk (VaR) measure of risk; credit risk and capital allocation and difference between speculation and hedging. [24L]

Exclusion: ECO460Y5

Prerequisite: ECO460H5

Limited Enrolment

ECO463H5 Financial Market Microstructure (SSc)

Traditional asset pricing theory focuses primarily on macro-level financial market prices in which the mysterious Walrasian Auctioneer sets prices that equilibrate demand and supply. In reality, security prices evolve through a large number of small-scale bilateral trades, performed by people that have specific, well-regulated and institutionalized roles. This course studies the impact of the trading institutions (e.g. market-makers, investment dealers) on security prices. In the process, it provides insights on the strategic trading behaviour of individual market participants and its relation to market anomalies such as speculative bubbles. Also, the course studies how micro-level irrationality affects such anomalies and when irrational behaviour does not ruin but instead enriches the gambler. This course uses mathematical models and is primarily theoretical, but it applies some of the theories in hands-on exercises.

Prerequisite: ECO200Y5/ 204Y5/ 206Y5,202Y5/ 208Y5/ 209Y5,220Y5/ 227Y5/

STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)

Recommended Preparation: ECO358H5/ 359H5/ 460H5 or MGT338H5/ 339H5

Economics and Political Science (HBA)

Program Advisor for Economics Courses

R. Mack

905-828-5404

Program Advisor for Political Science Courses

Norma Dotto

905-828-3921

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ECO Economics (page 143)

MAT Mathematics (page 256)

POL Political Science (page 275)

STA Statistics (page 306)

Combined Specialist Program ERSPE0751 Economics and Political Science (Arts)

Limited Enrolment – Enrolment in this program is limited. Students enrolling at the end of first year (4.0 credits) must obtain:

1. a mark of at least 67% in 1.0 POL credit and at least 67% in ECO100Y5, and a minimum Cumulative Grade Point Average of 2.00. OR
2. a mark of at least 67% in 1.0 POL credit and at least 63% in ECO100Y5, and a minimum Cumulative Grade Point Average of 2.50.

Students enrolling at the end of second year (8.0 credits) must obtain:

1. a mark of at least 70% in each of 2.0 POL credits and at least 67% in ECO100Y5, and a minimum Cumulative Grade Point Average of 2.30 OR
2. a mark of at least 70% in each of 2.0 POL credits and at least 63% in ECO100Y5, and a minimum Cumulative Grade Point Average of 2.50.

Within an honours degree, the following credits must be included in the program:

Economics 8.0 credits

1. ECO100Y5; MAT133Y5/ 134Y5/ 135Y5
2. ECO200Y5/ 204Y5/ 206Y5,202Y5/ 208Y5/ 209Y5,220Y5/ 227Y5/ STA(250H1,257H5)/STA(257H5,261H5)/STA(257H5,248H5/ 258H5)
3. ECO323Y5,322Y5

4. 1.0 additional 300/400-level ECO credit

Political Science 7.0 credits in POL, including at least 1.0 credit at the 400 level.

1. POL200Y5,214Y,309Y5
2. 1.0 credit from two of the following three fields:
Comparative Politics
International Relations
Public Policy and Public Administration
3. 2.0 additional POL credits

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

English (HBA)

Professors Emeriti

J. Dutka, M.A., Ph.D.
M. Garson, B.A., M.A., Ph.D.
R.R. McLeod, B.A., M.A., Ph.D.
L. Munk, B.A., M.A., Ph.D.

Professors

J. DeLombard, B.A., M.A., Ph.D.
A. Gillespie, B.A., D.Phil.
R. Greene, B.A., D.Phil.
C. Hill, B.A., M.A., Ph.D.
M.J. Levene, B.A., M.A., Ph.D.
S. Radović, B.A., M.A., Ph.D.
M. Ruti, B.A., M.A., Ph.D.
L. Switzky, B.A., M.A., Ph.D.
H. Syme, B.A., A.M., Ph.D.
D.F. Taylor, M.A.(Hons.), M.Phil., Ph.D.
L. Thomson, B.A., M.A., Ph.D.
D. White, B.A., M.A., Ph.D.

Chair

Professor H. Syme
905-828-3737
holger.syme@utoronto.ca

Assistant to the Chair

Merrylee Greenan
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Undergraduate Advisor

Dianne Robertson
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Together with the visual arts and music, literature has for millennia provided humanity with the means to depict, reflect on, and understand our existence, from the most personal details of daily life to grand philosophical or religious efforts to comprehend the world as a whole. The literary arts are essential to what it means to be human; their study necessarily plays a central role in the modern university. Our programs specifically focus on how literature in English has developed through the centuries, all over the world, and in a rich variety of different forms and modes, from oral recitations to digital media.

Our degree programs and courses introduce students to the full range of literary genres and traditions in English, from eleventh-century elegies written in Old English to contemporary postcolonial novels. Courses may focus on the development of particular forms (e.g., the lyrical poem), a particular period (e.g., the Victorian age), or a particular author (Shakespeare, for instance, or Jane Austen). Students receive in-depth training in critical reading and writing skills. Perceptive and attentive reading and clear and persuasive writing are key to the craft of literary criticism,

and our programs are designed to make students better critics; but these skills are equally crucial in all areas of research, business, and professional activity, and are therefore of lasting value both within and beyond the university.

Courses are arranged in four levels. Courses at the 100-level are introductory; 200-level courses provide broad surveys of a genre, a national literary tradition, or a subject; 300-level courses offer more detailed investigations of texts written at particular moments, in particular places in literary history, or by particular authors; and 400-level courses are small-group, discussion-based seminars on a specific subject. Additional course and program information can be found on the department website,

www.utm.utoronto.ca/english-drama/. Guidance is available from the Undergraduate Advisor as well as from members of the English faculty.

English Programs

Enrolment in any English Program of Study requires completion of 4.0 previous courses or their equivalent. Students are responsible for completing all the requirements of the English Program in which they are enrolled.

English is available at U of T Mississauga as a teachable subject in the Concurrent Teacher Education Program.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ENG English (page 153)

Specialist Program ERSPE1645 English (Arts)

Limited Enrolment – Students enrolling in the Specialist Program at the end of first year (4.0 credits) must obtain a CGPA of at least 2.0 and a mark of at least 70% in 1.0 ENG credit. Students applying to enrol after second year (8.0 credits), must obtain a CGPA of at least 2.30 and a mark of at least 70% in each of 2.0 ENG credits.

At least 10.0 ENG credits, including at least 3.0 credits at the 300+ level and 1.0 credit at the 400 level. Only 1.0 ENG course at the 100 level may be counted toward program requirements. ENG100H may not be counted.

Specialists are strongly encouraged to enrol in either ENG201Y5 or ENG202Y5 in their first year in the program.

Courses must fulfill the following requirements:

1. At least 1.0 credit from Group 1 (Theory, Language, Methods)
2. At least 1.0 credit from Group 2 (Canadian and Indigenous North American Literatures)

3. At least 1.0 credit from Group 3 (American and Transnational Literatures)
4. At least 3.0 credits from Group 4 (British Literature to the 19th Century)
5. At least 1.5 credits from Group 5 (Literature since the 18th Century)

Major Program ERMAJ1645 English (Arts)

At least 7.0 ENG credits, including at least 2.0 credits at the 300+ level. Only 1.0 ENG course at the 100 level may be counted toward program requirements. ENG100H may not be counted.

Majors are strongly encouraged to enrol in either ENG201Y5 or ENG202Y5 in their first year in the program.

Courses must fulfill the following requirements:

1. At least .5 credit from Group 1 (Theory, Language, Methods)
2. At least 1.0 credit from Group 2 (Canadian and Indigenous North American Literatures)
3. At least 1.0 credit from Group 3 (American and Transnational Literatures)
4. At least 2.0 credits from Group 4 (British Literature to the 19th Century)
5. At least 1.0 credit from Group 5 (Literature since the 18th Century)

Group 1: Theory, Language, Methods

ENG201Y5, 205H5, 266H5, 280H5, 380H5, 382Y5, 384H, 414H5, 415H5, 416H5

Group 2: Canadian and Indigenous North American Literatures

ENG215H5, 252Y5, 271H5, 274H5, 352H5, 353Y5, 354Y5, 357H5, 424H5, 425H5, 426H5

Group 3: American and Transnational Literatures

ENG250Y5, 270Y5, 272H5, 360H5, 363Y5, 364Y5, 365H5, 370H5, 434H5, 435H5, 436H5

Group 4: British Literature to the 19th Century

ENG202Y5, 220Y5, 300Y5, 302Y5, 303H5, 304Y5, 305H5, 306Y5, 308Y5, 311H5, 322Y5, 323H5, 330H5, 331H5, 335H5, 336H5, 460H5, 461H5, 462H5, 463H5

Group 5: Literature since the 18th Century

ENG210Y5, 213H5, 214H5, 234H5, 235H5, 236H5, 237H5, 239H5, 259H5, 324Y5, 325H5, 328Y5, 329H5, 340H5, 341H5, 342H5, 348Y5, 349H5, 470H5, 471H5, 472H5, 473H5

Note: The St. George Department of English offers

additional courses in each group. For information consult the Faculty of Arts and Science Calendar at

www.artsci.utoronto.ca. Please also consult the U of T Mississauga Calendar for regulations about taking courses on the St. George campus. Exclusions listed for English courses in the Arts and Science Calendar apply also to U of T Mississauga English courses. If you have questions, contact the Undergraduate Advisor for the Department of English and Drama.

Minor Program ERMIN1645 English (Arts)

At least 4.0 ENG credits, including at least 1.0 credit at the 300+ level. Only 1.0 ENG course at the 100 level may be counted toward program requirements. ENG100H may not be counted.

General Note:

100-level courses are designed to increase students' skills in close reading, interpretation, and effective writing; emphasize the development of analytical and essay-writing skills; and build acquaintance with major literary forms and conventions that students need in more advanced courses.

They are open to all students who have standing in no more than one full course in English.

ENG140Y5, our current first-year flagship course, explores how literature responds to the modern world and focuses on some of the most significant works of modern and contemporary literature. ENG110Y5 explores the nature of narrative in a wide variety of fictional and non-fictional, poetic, and cinematic forms. DRE/ENG121H and DRE/ENG122H study drama and performance from classical times to the present. ENG110Y5 and ENG140Y5 are equivalent to one another in that either one can be used in fulfillment of a Specialist, Major, or Minor Program, as can the combination of ENG121H and ENG122H. ENG100H5, a course in general writing skills relevant to a wide range of university subject areas, may not be used to meet the requirements of any English program.

Not all of the courses listed are offered every year. For courses to be offered this year, please consult the English and Drama website.

List of Courses

ENG100H5 Effective Writing (HUM)

This course provides practical tools for writing in university and beyond. Students will gain experience in generating ideas, clarifying insights, structuring arguments, composing paragraphs and sentences, critiquing and revising their writing, and communicating effectively to diverse audiences. This course does not count toward any English program. [36L]

ENG110Y5 Narrative (HUM)

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 the kinds of stories we encounter in non-literary contexts such as journalism, movies, myths, jokes, legal judgments, travel writing, histories, songs, diaries, biographies. [72L]
Exclusion: ENG140Y

ENG121H5 Traditions of Theatre and Drama (HUM)

An introductory survey of the forms and history of world drama from the classical period to the nineteenth century in its performance context. May include later works influenced by historical forms and one or more plays in the Theatre Erindale schedule of production. May include a research performance component. This course is also listed as DRE121H5. [36L]

Exclusion: ENG125Y1

ENG122H5 Modern and Contemporary Theatre and Drama (HUM)

An introductory survey of the forms and history of world drama from the late nineteenth century to the present in its performance context. May include film adaptations and one or more plays in the Theatre Erindale schedule of productions. May include a research performance component. This course is also listed as DRE122H5. [36L]

Exclusion: ENG125Y1

ENG140Y5 Literature for Our Time (HUM)

An exploration of how recent literature in English responds to our world. Includes poetry, prose, drama by major writers of the twentieth century (such as Eliot, Woolf, Beckett, Plath, Morrison, Munro, Coetzee, Rushdie) and emerging writers of the current century. [72L]

Exclusion: ENG110Y5

ENG201Y5 Reading Poetry (HUM)

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. [72L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG202Y5 British Literature: Medieval to Romantic (HUM)

An introduction to influential texts that have shaped the British literary heritage, covering approximately twelve writers of poetry, drama, and prose, from Chaucer to Keats, with attention to such questions as the development of the theatre, the growth of the novel form, and the emergence of women writers. [72L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG205H5 Rhetoric (HUM)

An introduction to the rhetorical tradition from classical times to the present with a focus on prose as strategic persuasion. Besides rhetorical terminology, topics may include the discovery and arrangement of arguments, validity in argumentation, elements of style, and rhetorical criticism and theory. [36L]

Exclusion: WRI305H5

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG210Y5 The Novel (HUM)

An introduction to the novel through a reading of ten to twelve texts, representing a range of periods, techniques, regions, and themes. [72L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG213H5 The Short Story (HUM)

This course explores shorter works of nineteenth- and twentieth-century writers. Special attention will be paid to formal and rhetorical concepts for the study of fiction as well as to issues such as narrative voice, allegory, irony, and the representation of temporality. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG214H5 The Short Story Collection (HUM)

This course explores collections of short stories. It examines individual stories, the relationships among and between stories, the dynamics of the collection as a whole, the literary history of this genre, along with its narrative techniques and thematic concerns. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG215H5 The Canadian Short Story (HUM)

An introduction to the Canadian short story, this course emphasizes its rich variety of settings, subjects, and styles. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG220Y5 Shakespeare (HUM)

A study of 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; *Henry V*; *Twelfth Night*; *Measure for Measure*; *Hamlet*; *King Lear*; *Antony and Cleopatra*; *The Tempest*. Some non-dramatic poetry may be added. [72L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG234H5 Children's Literature (HUM)

A critical and historical study of poetry and fiction written for or appropriated by children, this course may also include drama or non-fiction and will cover works by at least twelve authors such as Bunyan, Stevenson, Carroll, Twain, Alcott, Nesbit, Montgomery, Milne, Norton, and Fitzhugh. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG235H5 The Graphic Novel (HUM)

An introduction to book-length sequential art, this course includes fictional and nonfictional comics by artists such as Will Eisner, Art Spiegelman, Frank Miller, Alan Moore, Chris Ware, Daniel Clowes, Julie Doucet, Marjane Satrapi, Chester Brown and Seth. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG236H5 Detective Fiction (HUM)

At least 12 works by such authors as Poe, Dickens, Collins, Doyle, Chesterton, Christie, Sayers, VanDine, Hammett, Chandler, Faulkner, P.D. James, Rendell. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG237H5 Science Fiction (HUM)

This course explores speculative fiction that invents or extrapolates an inner or outer cosmology from the physical, life, social, and human sciences. Typical subjects include AI, alternative histories, cyberpunk, evolution, future and dying worlds, genetics, space/time travel, strange species, theories of everything, utopias, and dystopias. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG239H5 Fantasy and Horror (HUM)

This course explores speculative fiction of the fantastic, the magical, the supernatural, and the horrific. Subgenres may include alternative histories, animal fantasy, epic fantasy, the Gothic, fairy tales, magic realism, sword and sorcery, and vampire fiction. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG250Y5 American Literature (HUM)

An introductory survey of major works in American literature, this course explores works in a variety of genres, including poetry, fiction, essays, and slave narratives. [72L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG252Y5 Canadian Literature (HUM)

An introductory survey of major Canadian works in poetry, prose, and drama from early to recent times. [72L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG259H5 Literature and the Environment (HUM)

An exploration of the role that literature has played in creating our awareness of "nature" and the "environment." At least six works by writers such as Shakespeare, Marvell, Wordsworth, Coleridge, Thoreau, Emerson, Whitman, Dickens, Hardy, Pratt, Lawrence, Frost, Atwood. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG266H5 The English Vocabulary: Its History, Structure and Meaning (HUM)

A study of the principles underlying the continual change of words and meanings that characterizes a living language. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG270Y5 Colonial and Postcolonial Writing (HUM)

In this course we will study literary and non-literary texts from the nineteenth century to the present day. Colonial texts will be analysed alongside postcolonial interpretations of the nineteenth-century archive, giving students a grasp of colonial discourse and contemporary postcolonial analyses. [72L]

Exclusion: ENG253Y5

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG271H5 Diasporic Literatures of Toronto (HUM)

Toronto is one of the world's most diverse and multicultural cities. This course is a study of literature by writers with strong connections to Toronto who explore issues such as identity, nationality, place, origin, and the multicultural experience. Writers may include: Judy Fong Bates, Dionne Brand, Austin Clarke, Pier Giorgio Di Cicco, Rohinton Mistry, Michael Ondaatje, M. Nourbese Philip, Shyam Selvadurai, M. G. Vassanji. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG272H5 Literature and Exile (HUM)

Explores the complex effects of exile – coerced or chosen – on aesthetic choices within fiction, poetry, and drama, and especially on the nature of literary language. Includes works in English by writers of different origins, such as Conrad, James, Beckett, Joyce, Rhys, Pound, Ionesco, Nabokov, Koestler, Brodsky, Naipaul, Achebe, Kundera, Skvorecky, Rushdie, Gallant, Sebald, Ondaatje, Danticat, Ali, Nafisi. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG274H5 Native North American Literature (HUM)

An introduction to North American aboriginal literature with emphasis on writers from Canada's First Nations. Readings will be considered in the context of aboriginal cultures and oral traditions. Texts may include fiction, poetry, drama, and non-fiction by writers such as Sherman Alexie, Jeannette Armstrong, Michael Dorris, Tomson Highway, Basil Johnston, Thomas King, Lee Maracle, Daniel David Moses, Eden Robinson, Leslie Marmon Silko. [36L]

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG280H5 Critical Approaches to Literature (HUM)

An introduction to literary theory and its central questions, such as the notion of literature itself, the relation between literature and reality, the nature of literary language, the making of literary canons, and the roles of the author and the reader. [36L]

Exclusion: ENG267H5

Prerequisite: All 200-series courses are open to students who are concurrently enrolled in ENG110Y or ENG140Y, or both DRE/ENG121H and DRE/ENG122H, or who have successfully completed at least 4.0 full credits.

ENG299Y5 Research Opportunity Program (HUM)

This course provides a richly rewarding opportunity for students in their second year to work on the research project of a professor. Students enrolled have an opportunity to become involved in original research, learn research methods, and share in the excitement and discovery of acquiring new knowledge. Professors' project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: 1.0 credit of ENG110Y5/ ENG140Y5/ DRE121H5/ ENG121H5/ DRE122H5/ ENG122H5 OR 4.0 credits.

ENG300Y5 Chaucer (HUM)

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. [72L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG302Y5 Poetry and Prose, 1500-1600 (HUM)

Considering literature during the reign of the Tudors, this course may include poetry of Wyatt, Sidney, Mary Sidney Herbert, Marlowe, Shakespeare, Spenser, and Donne; prose of More, Askew, Sidney, Hakluyt, Hooker, Elizabeth I, Lyly, and Nashe; and supplementary readings from such writers as Erasmus, Castiglione, and Machiavelli. [72L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG303H5 Milton (HUM)

Selections from *Paradise Lost* and other works. [36L]

ENG304Y5 Poetry and Prose, 1600-1660 (HUM)

Considering literature during the reign of the early Stuarts and the Civil War, with special attention to Milton and *Paradise Lost*, this course also includes such poets as Donne, Jonson, Lanyer, Wroth, Herbert, and Marvell, and such prose writers as Bacon, Clifford, Donne, Wroth, Burton, Cary, Browne, Hobbes, Milton, and Cavendish. [72L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG305H5 Swift, Pope, and their Contemporaries (HUM)

Selected works in prose and verse by Swift and Pope studied alongside works by their contemporaries. Topics may include the legitimacy of satire, the role of criticism, and the growing importance of writing by women. [36L]

ENG306Y5 Poetry and Prose 1660-1800 (HUM)

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. [72L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG308Y5 Romantic Poetry and Prose (HUM)

Poetry and critical prose of Blake, W. Wordsworth, Coleridge, Byron, P.B. Shelley, Keats; may include brief selections from other writers such as Crabbe, Dorothy Wordsworth, Scott, Landor, Mary Shelley, Clare, De Quincey. [72L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG311H5 Medieval Literature (HUM)

This course explores a selection of writings in early English, excluding those by Chaucer. [36L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG322Y5 Fiction Before 1832 (HUM)

This course studies the emergence of prose fiction as a genre recognized in both a literary and a commercial sense. Authors may include Behn, Defoe, Richardson, Fielding, Sterne, Scott, and Austen. [72L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG323H5 Austen and Her Contemporaries (HUM)

A study of selected novels by Austen and of works by such contemporaries as Radcliffe, Godwin, Woolstonecraft, Wordsworth, Edgeworth, Scott, and Shelley, in the context of the complex literary, social, and political relationships of that time. [36L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG324Y5 Fiction, 1832-1900 (HUM)

Explores the works of a great age of fiction and its responses to moral, social and political dilemmas. At least twelve novels by such authors as Dickens, Trollope, Thackeray, the Brontës, George Eliot and Hardy. [72L]
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG325H5 Victorian Realist Novels (HUM)

This course explores forms of realism in Victorian fiction and includes at least six novels by such authors as Dickens, Thackeray, George Eliot, Charlotte Bronte, Gaskell, Collins, Trollope and Hardy. [36L]

ENG328Y5 Modern Fiction to 1960 (HUM)

This course explores ten to twelve works by such writers as James, Conrad, Cather, Forster, Joyce, Woolf, Lawrence, Faulkner, Rhys, Hemingway, Achebe, Ellison, Spark, and Lessing. [72L]
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG329H5 Contemporary British Fiction (HUM)

This course explores six or more works by at least four British contemporary writers of fiction. [36L]
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG330H5 Early Drama (HUM)

Texts and performances preceding and underlying the plays of Shakespeare and his contemporaries, including creation-to-doomsday play cycles; plays performed in parishes, inns, great halls, outdoor arenas, and at court; religious and political propaganda plays; political pageants. Attention is given to social, political, and theatrical contexts. [36L]
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG331H5 Drama to 1603 (HUM)

This course explores English drama to the end of the reign of Queen Elizabeth I, with attention to such playwrights as Lyly, Kyd, Marlowe, and Shakespeare. [36L]
Exclusion: ENG332Y5
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG335H5 Drama 1603 to 1642 (HUM)

This course explores English drama from the death of Queen Elizabeth I to the closing of the theatres, with attention to such playwrights as Jonson, Middleton, Shakespeare, and Webster. [36L]
Exclusion: ENG332Y5
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG336H5 Topics in Shakespeare (HUM)

A concentrated study of one aspect of Shakespeare's work, such as his use of a particular genre, a particular period of his work, a recurring theme, or the application of a particular critical approach. [36L]
Prerequisite: ENG220Y5

ENG340H5 Modern Drama to World War II (HUM)

A study of plays in English by such dramatists as Wilde, Yeats, Shaw, Synge, Glaspell, Hughes, and O'Neill, as well as plays in translation by such dramatists as Ibsen, Chekhov, Strindberg, and Pirandello. [36L]
Exclusion: ENG338Y5
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG341H5 Modern Drama since World War II (HUM)

A study of plays by such dramatists as Beckett, Miller, Williams, Pinter, Soyinka, and Churchill, with background readings from other dramatic literatures. [36L]
Exclusion: ENG338Y5
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG342H5 Contemporary Drama (HUM)

A study of ten or more plays by at least six recent dramatists. [36L]
Exclusion: ENG339H5
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG348Y5 Modern Poetry to 1960 (HUM)

Special study of Hopkins, Yeats, Pound, Eliot, Stevens; selections from other poets. [72L]
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG349H5 Contemporary Poetry (HUM)

Works by at least six contemporary poets, such as Dickey, Ginsberg, Heaney, Howard, Hughes, Larkin, Lowell, Plath, Warren. [36L]
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG352H5 Canadian Drama (HUM)

Canadian plays, with emphasis on major playwrights and on developments since 1940, but with attention also to the history of the theatre in Canada. [36L]
Exclusion: ENG223H5
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG353Y5 Canadian Fiction (HUM)

A study of twelve or more Canadian works of fiction, primarily novels. [72L]
Exclusion: ENG216Y5
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG354Y5 Canadian Poetry (HUM)

A study of major Canadian poets, modern and contemporary. [72L]
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG357H5 New Writing in Canada (HUM)

Close encounters with recent writing in Canada: new voices, new forms, and new responses to old forms. Texts may include or focus on poetry, fiction, drama, non-fiction, or new media. [36L]
Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG360H5 Early American Literature (HUM)

This course explores writing in a variety of genres produced in the American colonies in the seventeenth and eighteenth centuries, such as narratives, poetry, autobiography, journals, essays, sermons, and court transcripts. [36L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG363Y5 Nineteenth-Century American Literature (HUM)

This course explores American writing in a variety of genres from the end of the Revolution to the beginning of the twentieth century. [72L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG364Y5 Twentieth-Century American Literature (HUM)

This course explores twentieth-century American writing in a variety of genres. [72L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG365H5 Contemporary American Fiction (HUM)

This course explores six or more works by at least four contemporary American writers of fiction. [36L]

Exclusion: ENG361H5

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG370H5 Postcolonial and Transnational Discourses (HUM)

This course focuses on recent theorizations of postcoloniality and transnationality through readings of fictional and non-fictional texts, along with analyses of contemporary films and media representations. [36L]

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG380H5 History of Literary Theory (HUM)

Literary theory from classical times to the nineteenth century. Topics include theories of the imagination, genre analysis, aesthetics, the relations between literature and reality and literature and society, and the evaluation and interpretation of literature. [36L]

Exclusion: ENG367Y5

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG382Y5 Contemporary Literary Theory (HUM)

This course explores literary theory from the early twentieth century to the present. Schools or movements studied may include structuralism, formalism, phenomenology, Marxism, post-structuralism, reader-response theory, feminism, queer theory, new historicism, psychoanalysis, postcolonial theory, and cultural and race studies. [72L]

Exclusion: ENG366Y5

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG384H5 Literature and Psychoanalysis (HUM)

An introduction to psychoanalysis for students of literature, this course considers major psychanalytic ideas through close readings of selected texts by Freud and related psychoanalytic thinkers. The course also explores critiques and applications of Freud's work and examines a selection of literary texts that engage psychoanalytic theory. [36L]

Exclusion: ENG290Y5, ENG384Y1

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG389Y5 Creative Writing (HUM)

Restricted to students who in the opinion of the Department show special aptitude. [48S]

Prerequisite: Permission of instructor; portfolio must be submitted by May 15.

ENG390Y5 Individual Studies (HUM)

A scholarly project chosen by the student and supervised by a faculty member. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project proposals must be submitted to the Undergraduate Advisor by May 15. Proposal forms are available in Room 289, North Bldg. or from the department website.

Exclusion: ENG490Y5

Prerequisite: 3.0 credits in English

ENG391Y5 Individual Studies (Creative) (HUM)

A project in creative writing chosen by the student and supervised by a faculty member. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project proposals must be submitted to the Undergraduate Advisor by May 15.

Proposal forms are available in Room 289, North Bldg. or the department website.

Prerequisite: 3.0 credits in English, including ENG369Y5

ENG399Y5 Research Opportunity Program (HUM)

For senior undergraduate students who have developed some knowledge of a discipline and its research methods, this course offers an opportunity to work on the research project of a professor. Students enrolled will become involved in original research, develop their research skills, and share in the excitement and discovery of acquiring new knowledge. Professors' project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details

Prerequisite: 1.0 credit in ENG and 3.0 additional credits

ENG414H5 Advanced Studies: Theory, Language, Methods (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG415H5 Advanced Studies: Theory, Language, Methods (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG416H5 Advanced Studies: Theory, Language, Methods (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG424H5 Advanced Studies: Canadian and Indigenous North American Literatures (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG425H5 Advanced Studies: Canadian and Indigenous North American Literatures (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG426H5 Advanced Studies: Canadian and Indigenous North American Literatures (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG434H5 Advanced Studies: American and Transnational Literatures (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG435H5 Advanced Studies: American and Transnational Literatures (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG436H5 Advanced Studies: American and Transnational Literatures (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG460H5 Advanced Studies: British Literature to the 19th Century (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG461H5 Advanced Studies: British Literature to the 19th Century (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG462H5 Advanced Studies: British Literature to the 19th Century (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG463H5 Advanced Studies: British Literature to the 19th Century (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG470H5 Advanced Studies: Literature since the 18th Century (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG471H5 Advanced Studies: Literature since the 18th Century (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG472H5 Advanced Studies: Literature since the 18th Century (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

ENG473H5 Advanced Studies: Literature since the 18th Century (HUM)

See department for description. [24S]

Prerequisite: 5.0 credits in ENG and 4.0 additional credits

Environment and Human Society (HBA)

Last offered in 2008-09. Students already enrolled in this program may continue to follow it.

Environmental Analysis and Monitoring (HBSc)

Last offered in 2008-09. Students already enrolled in this program may continue to follow it.

Environmental Management (HBA)

Environment at U of T Mississauga offers a choice of two program paths:

- Environmental Science (HBSc) (Page 163)
- Environmental Management (HBA) (Page 160)

These interdisciplinary programs are administered by the U of T Mississauga Geography Department, which advises students and coordinates participating departments, faculty and programs.

The curriculum stresses the integrative nature of the study of the environment. Students will develop the environmental problem-solving skills required for some of the most dynamic areas of today's job market. Environment faculty members encourage students to become involved in basic enquiry and critical thinking, cross-disciplinary collaboration, and the application of concepts to real-life problems.

The Environment programs begin with a first-year Science course, ENV100Y5 (The Environment). The programs offer students abundant opportunities to become involved in environmental practice, research and fieldwork (e.g., ENV299Y5 Research Opportunity Program, ENV232H5 Environmental Sustainability Practicum, ENV331H5 International Environmental Sustainability–Mexico, ENV497H5/ 498Y5 Environmental Research Project, and discipline-based research projects). Students may also have the opportunity to complete a practical work placement course related to their specific area of interest (ENV400Y5 Environmental Internship).

Academic Counselor

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The **Environmental Management** programs focus on environment, society, and public policy. The cornerstone course ENV201H5 (Environmental and Resource Management) in the second year provides students with an introduction to the political and socioeconomic framework of environmental management. Students then have the opportunity to develop specialized skills in resource management, environmental assessment, and the social, economic, and policy aspects of environmental change. One possible pathway through Environmental Management would rely mainly on Social Science course selections (e.g., Environmental Politics in Canada, Sociology of the Environment, The Environment: Perspectives from Economics and Ecology). An alternative pathway would rely more heavily on Humanities course selections (e.g., Environmental Ethics, Canadian Environmental History, Literature and the Environment). Experiential learning and research opportunities are important to all of the Environmental Management programs. No matter which pathway is followed, some basic Science courses are also required. The premise is that those who will set environmental policy and lead society through our current environmental challenges must have some foundation in natural science. Students who have concerns about identifying which pathway is best for them are encouraged to visit the Program Advisors and Academic Counsellor early and often.

Professional Advancement for Geography and Environment Students (PAGES)

The program is based on a series of workshops, career events and related activities designed to help students develop: an awareness of research, career and graduate possibilities; skills required to apply successfully for employment and graduate studies; and personal skills to improve self-confidence and potential within the workplace, professional direction and self-awareness. On successful completion of the program students receive a transcript annotation. Please contact Sabrina Ferrari (sabrina.ferrari@utoronto.ca) for details on registering for this program.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
BIO	Biology (page 76)
ECO	Economics (page 143)
ENG	English (page 153)
ENV	Environment (page 166)
ERS	Earth Science (page 139)
GGR	Geography (page 196)
HIS	History (page 207)
MGT	Management (page 248)
PHL	Philosophy (page 263)
PHY	Physics (page 270)
POL	Political Science (page 275)
SCI	Science (page 294)
SOC	Sociology (page 296)
STA	Statistics (page 306)
WRI	Professional Writing and Communication (page 281)

Specialist Program ERSPE1425 Environmental Management (Arts)

Within an Honours degree, 12.0 credits are required, of which at least 4.0 must be at the 300-400 level, including at least 1.0 at the 400 level.

Limited Enrolment – Enrolment in this program is limited to students who have completed ENV100Y5 with a mark of 65% or higher, and who have a CGPA of at least 2.5.

First Year: 2.0 credits:

1. **Introduction:** ENV100Y5
2. **Foundation:** 1.0 credit chosen from this list:
ANT101H5, 102H5; ECO100Y5; GGR111H5;
HIS101H5; PHL105Y5; POL111H5, 112H5, 113H5,
114H5; WRI203H5; SOC100H5

Be sure to look ahead and plan to complete the prerequisites for any upper-level courses that are of interest to you.

Second Year: 4.0 credits:

1. **Environmental Management Core:** ENV201H5
2. **Social Science/Humanities Core:** 1.5 credits chosen from this list: ANT204Y5, 241Y5; ENG259H5; GGR202H5, 207H5, 208H5, 209H5, 287H5, 288H5; PHL273H5; POL250Y5
3. **Science Core:** 1.0 credit chosen from this list: BIO201H5, 205H5; ERS201H5, 202H5, 203H5; GGR214H5, 217H5, 227H5; PHY237H5
4. **Analytical & Research Methods:** 1.0 credit chosen from this list: GGR276H5, 277H5, 278H5; SOC222H5; STA220H5, 221H5; or another program-relevant 200/300-level Research Methods course, with permission of the Program Advisor

Upper Years: 6.0 credits:

1. **Environmental Management Perspectives:** 0.5 credit chosen from this list: ANT357H5; ENV393H5; GGR329H5; HIS318H5, 319H5
2. **Social, Economic & Policy Perspectives:** 2.0 credits chosen from this list: ANT357H5, 368H5, 370H5; ECO373Y5; ENV320Y1, 321Y1, 350H1, 393H5, 420H5; GGR330H1, 333H5, 345H5, 348H5, 349H5, 361H5, 365H5, 367H5, 369H5, 370H5, 378H5, 380H5, 419H5, 493H5; JAG321H1; JUG320H1; MGT394H5; PHL373H1; POL343Y5; SOC339H5, 349H5, 356H5; WRI375H5
3. **Scientific Perspectives:** 0.5 credit chosen from this list: ANT339Y5; BIO333H5, 464H5; ERS315H5, 321H5; GGR305H5, 307H5, 309H5, 311H5, 337H5, 377H5, 378H5; SCI395H5, SCI396H5

4. **Experiential, Field & Research Perspectives:** 1.0 credit chosen from this list: ENV232H5, 299Y5, 331H5, 399Y5, 400Y5, 497H5, 498Y5; GGR379H5, 389H5; SCI498H5, 499H5; or another program-relevant Field, Experiential, or Research course, with permission of the Program Advisor
5. 2.0 additional 300/400-level credits chosen from those listed in #1, #2, or #3, or from ENV490H5, 491H5.

Note This is intended to be an interdisciplinary program. At least four different disciplines must be represented among the courses that are counted as program requirements. For example, a course list selected from ENV + GGR + HIS + PHL is acceptable, but a course list selected only from ENV + GGR + HIS is not; a course list selected from ENV + ENG + ECO + POL is acceptable, but a course list selected only from ENV + ECO + POL is not. Please contact the Program Advisors or Academic Counsellor if you have any questions about the validity of your course selections.

Major Program ERMAJ1425 Environmental Management (Arts)

Within an Honours degree, 8.0 credits are required, of which at least 2.0 must be at the 300-400 level.

Limited Enrolment – Enrolment in this program is limited to students who have completed ENV100Y with a mark of 65% or higher.

First Year: 2.0 credits:

1. **Introduction:** ENV100Y5
2. **Foundation:** 1.0 credit chosen from this list: ANT101H5, 102H5; ECO100Y5; GGR111H5; HIS101H5; PHL105Y5; POL111H5, 112H5, 113H5, 114H5; WRI203H5; SOC100H5

Be sure to look ahead and plan to complete the prerequisites for any upper-level courses that are of interest to you.

Second Year: 2.5 credits:

1. **Environmental Management Core:** ENV201H5
2. **Social Science/Humanities Core:** 1.0 credit chosen from this list: ANT204Y5, 241Y5; ENG259H5; GGR202H5, 207H5, 208H5, 209H5, 287H5, 288H5; PHL273H5; POL250Y5
3. **Science Core:** 0.5 credit chosen from this list: BIO201H5, 205H5; ERS201H5; GGR214H5, 217H5, 227H5; PHY237H5
4. **Analytical & Research Methods:** 0.5 credit chosen from this list: GGR276H5, 277H5, 278H5; SOC222H5; STA220H5; or another program-relevant 200/300-level Research Methods course, with permission of the Program Advisor

Upper Years: 3.5 credits:

1. **Environmental Management Perspectives:** 0.5 credit chosen from this list: ANT357H5; ENV393H5; GGR329H5; HIS318H5, 319H5
2. **Social, Economic & Policy Perspectives:** 0.5 credit chosen from this list: ANT357H5, 368H5, 370H5; ECO373Y5; ENV420H5; GGR333H5, 345H5, 348H5, 349H5, 361H5, 365H5, 367H5, 369H5, 370H5, 378H5, 380H5, 419H5; MGT394H5; PHL373H1; POL343Y5; SOC339H5, 349H5, 356H5; WRI375H5
3. **Scientific Perspectives:** 0.5 credit chosen from this list: ANT339Y5; BIO333H5, 464H5; ERS315H5, 321H5; GGR305H5, 307H5, 309H5, 311H5, 337H5, 377H5, 378H5; SCI395H5, SCI396H5
4. **Experiential, Field & Research Perspectives:** 0.5 credit chosen from this list: ENV232H5, 299Y5, 331H5, 399Y5, 400Y5; GGR379H5, 389H5; or another program-relevant Field, Experiential, or Research course, with permission of the Program Advisor
5. 1.5 additional 300/400-level credits chosen from those listed in #1, #2, or #3, or from ENV490H5, 491H5

Note This is intended to be an interdisciplinary program. At least four different disciplines must be represented among the courses that are counted as program requirements. For example, a course list selected from ENV + GGR + HIS + PHL is acceptable, but a course list selected only from ENV + GGR + HIS is not; a course list selected from ENV + ENG + ECO + POL is acceptable, but a course list selected only from ENV + ECO + POL is not. Please contact the Program Advisors or Academic Counsellor if you have any questions about the validity of your course selections.

Minor Program ERMIN1425 Environmental Management (Arts)

Within an Honours degree, 4.0 credits are required, of which at least 1.0 must be at the 300 level.

Limited Enrolment – Enrolment in this program is limited to students who have completed ENV100Y with a mark of 60% or higher.

First Year: 1.0 credit:

1. **Introduction:** ENV100Y5

Be sure to look ahead and plan to complete the prerequisites for any upper-level courses that are of interest to you.

Second Year: 1.5 credits:

1. **Environmental Management Core:** ENV201H5

2. **Social Science/Humanities Perspectives:** 0.5 credit chosen from this list: ANT204H5; ENG259H5; GGR202H5, 207H5, 208H5, 209H5, 287H5, 288H5; PHL255H5, 273H5; POL250Y5
3. **Scientific Perspectives:** 0.5 credit chosen from this list: BIO201H5, 205H5; ERS201H5; GGR214H5, 217H5, 227H5; PHY237H5

Third Year: 1.5 credits:

1. **Experiential, Field & Research Perspectives:** 0.5 credit chosen from this list: ENV299Y5, 331H5; GGR379H5, 389H5; or another program-relevant Field, Experiential, or Research course, with permission of the Program Advisor
2. 1.0 additional credit chosen from this list: ANT357H5, 368H5, 370H5; ECO373Y5; ENV393H5, 420H5, 490H5, 491H5; GGR329H5, 333H5, 345H5, 348H5, 349H5, 361H5, 365H5, 367H5, 369H5, 370H5, 378H5, 380H5; HIS318H5, 319H5; HPS328H1; MGT394H5; PHL373H1; POL343Y5; SCI395H5, SCI396H5; SOC339H5, 349H5, 356H5; WRI375H5

Note This is intended to be an interdisciplinary program. At least three different disciplines must be represented among the courses that are counted as program requirements. For example, a course list selected from ENV + GGR + HIS is acceptable, but a course list selected only from ENV + GGR is not; a course list selected from ENV + ECO + POL is acceptable, but a course list selected only from ENV + HIS is not. Please contact the Program Advisors or Academic Counsellor if you have any questions about the validity of your course selections.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time. Students may take no more than 2.0 credits combined in ROP, individual project courses, or thesis courses at the 300/400 level for credit toward their Environment program.

Environmental Science (HBSc)

Environment at U of T Mississauga offers a choice of two program paths:

- Environmental Science (HBSc) (Page 163)
- Environmental Management (HBA) (Page 160)

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The curriculum stresses the integrative nature of the study of the environment. Students will develop the environmental problem-solving skills required for some of the most dynamic areas of today's job market. Environment faculty members encourage students to become involved in basic enquiry and critical thinking, cross-disciplinary collaboration, and the application of concepts to real-life problems.

The Environment programs begin with a first-year Science course, ENV100Y5 (The Environment). The programs offer students abundant opportunities to become involved in environmental practice, research and fieldwork (e.g., ENV299Y5 Research Opportunity Program, ENV232H5 Environmental Sustainability Practicum, ENV331H5 International Environmental Sustainability–Mexico, ENV497H5/ 498Y5 Environmental Research Project, and discipline-based research projects). Students may also have the opportunity to complete a practical work placement course related to their specific area of interest (ENV400Y5 Environmental Internship).

Professional Advancement for Geography and Environment Students (PAGES)

The program is based on a series of workshops, career events and related activities designed to help students develop: an awareness of research, career and graduate possibilities; skills required to apply successfully for employment and graduate studies; and personal skills to improve self-confidence and potential within the workplace, professional direction and self-awareness. On successful completion of the program students receive a transcript annotation. Please contact Sabrina Ferrari (sabrina.ferrari@utoronto.ca) for details on registering for this program.

Academic Counsellor

Geography
Ms Sabrina Ferrari
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Director and Program Advisor
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Program Advisor

Chemical and Physical Sciences
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Geography

Dr. Barbara Murck
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The **Environmental Science** programs offer an opportunity to study the interdisciplinary sciences that are required to understand complex environmental problems involving the natural world and human impacts. Students can tailor the scientific focus of the program to their own interests, by choosing courses from Geographical and Earth Science Perspectives; Biological/Ecological Perspectives; and Physical/Chemical Perspectives. For example, one possible pathway through Environmental Science focuses on the relationships among biota, land, water, and air, the structure and function of natural and managed ecosystems, and processes in the biogeochemical environment. This pathway would rely mainly on courses chosen from the Geographical and Ecological Perspectives. An alternative, more analytical pathway is better suited to students with a strong interest in laboratory sciences, who wish to apply their knowledge to problems of chemical, physical, and biotechnical remediation and the control of environmental problems. This pathway would involve more course choices in the Physical and Chemical Sciences. Fieldwork, experiential learning, and research opportunities are important to all of the Environmental Science programs. No matter which pathway is followed, some courses on Social and Policy Perspectives are also part of the program. The premise is that those who will develop our scientific knowledge and technological capacities must also have a basic understanding of environmental management, policy, and the human-environment relationship. Students who have concerns about identifying which pathway is best for them are encouraged to visit the Program Advisors and Academic Counselor early and often.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
BIO	Biology (page 76)
CHM	Chemistry (page 92)
CSC	Computer Science (page 125)
ECO	Economics (page 143)
ENG	English (page 153)
ENV	Environment (page 166)
ERS	Earth Science (page 139)
GGR	Geography (page 196)
HIS	History (page 207)
JCP	Chemistry (page 92)
MAT	Mathematics (page 256)
MGT	Management (page 248)
PHL	Philosophy (page 263)
PHY	Physics (page 270)
POL	Political Science (page 275)
SCI	Science (page 294)
SOC	Sociology (page 296)
STA	Statistics (page 306)
WRI	Professional Writing and Communication (page 281)

Specialist Program ERSPE1061 Environmental Science (Science)

Within an Honours degree, 12.0 credits are required, of which at least 4.0 must be at the 300-400 level, including at least 1.0 at the 400 level.

Limited Enrolment – Enrolment in this program is limited to students who have completed ENV100Y5 with a mark of 65% or higher, and who have a CGPA of at least 2.5.

First Year: 4.0 credits:

1. **Introduction:** ENV100Y5
2. **Quantitative Foundation:** 1.0 credit chosen from this list: CSC108H5, 148H5; MAT134Y5, 135Y5, 137Y5
3. **Basic Scientific Foundation:** 2.0 credits chosen from this list: ANT101H5; BIO152H5, 153H5; ERS103H5, 120H5; CHM110H5, 120H5; GGR112H5; PHY135Y5, 136H5, 137H5

Be sure to look ahead and plan to complete the prerequisites for any upper-level courses that are of interest to you.

Second Year: 4.0 credits:

1. **Biological & Ecological Perspectives:** 0.5 credit chosen from this list: BIO200H5, 204H5, 205H5, 206H5, 215H5
2. **Geographical Perspectives:** 1.0 credit chosen from this list: ENV201H5; GGR214H5, 217H5, 227H5

3. **Earth Science Perspectives:** ERS201H5
4. **Physical & Chemical Perspectives:** 1.0 credit chosen from this list: CHM231H5, 242H5; JCP221H5; ERS202H5, 203H5; PHY237H5
5. **Analytical & Research Methods:** 1.0 credit chosen from this list: BIO360H5, 361H5; CHM211H5; ENV232H5; GGR276H5, 277H5, 278H5, 337H5, 380H5; STA220H5, 221H5; or another program-relevant 200/300-level Research Methods course (SCI), with permission of the Program Advisor

Upper Years: 4.0 credits:

1. **Field Perspectives:** 1.0 credit chosen from this list: ANT318H5; BIO313H5, 329H5, 416H5; ERS325H5; ENV331H5; GGR317H5 (with field-trip option), 379H5, 390H1; or another program-relevant Field course (SCI), with permission of the Program Advisor
2. **Experiential & Research Perspectives:** 1.0 credit chosen from this list: BIO400Y5; ENV399Y5, 400Y5, 497H5, 498Y5; GGR417Y5; SCI395H5, 396H5, 498H5, 499H5; or another program-relevant Experiential or Research course (SCI), with permission of the Program Advisor
3. **Biogeochemical Perspectives:** 1.5 credits chosen from this list: BIO311H5, 312H5, 316H5, 318Y5, 328H5, 330H5, 333H5, 373H5, 405H5, 406H5, 436H5, 464H5; CHM310H1, 311H5, 331H5, 333H5, 347H5, 361H5, 362H5, 391H5, 393H5, 416H5; ENV315H1, 393H5, 490H5, 491H5; ERS315H5, 321H5; GGR305H5, 307H5, 309H5, 311H5, 312H5, 315H5, 316H5, 317H5, 321H5, 337H5, 338H5, 372H5, 375H5, 377H5, 378H5, 403H1, 406H5, 407H5, 409H1, 413H1, 463H5, 464H5, 479H5, 493H5; PHY331H5, 332H5
4. **Social, Economic & Policy Perspectives:** 0.5 credit chosen from this list: ANT357H5, 368H5, 370H5; ECO373Y5; ENG259H5; ENV393H5; GGR329H5, 333H5, 345H5, 348H5, 349H5, 361H5, 365H5, 367H5, 369H5, 370H5, 378H5, 380H5; HIS318H5, 319H5; MGT394H5; PHL273H5, 373H1; POL250Y5, 343Y5; SOC226H5, 339H5, 349H5, 356H5; WRI375H5
Note: ENV490H5, 491H5 can substitute for #1, #2, #3, or #4 as course requirements, where appropriate, and with permission of the Program Advisor or Academic Counsellor.

Note: This is intended to be an interdisciplinary program. At least four different disciplines must be represented among the courses that are counted as program requirements. For example, a course list selected from ENV + GGR + HIS + PHL is acceptable, but a course list selected only from ENV + GGR + HIS is not; a course list selected from ENV + ENG + ECO + POL is acceptable, but a course list selected only from ENV + ECO + POL is not. Please contact the Program Advisors or Academic Counsellor if you have any questions about the validity of your course selections.

Major Program ERMAJ1061 Environmental Science (Science)

Within an Honours degree, 8.0 credits are required, of which at least 2.0 must be at the 300-400 level.

Limited Enrolment – Enrolment in this program is limited to students who have completed ENV100Y5 with a mark of 65% or higher.

First Year: 3.0 credits:

1. **Introduction:** ENV100Y5
2. **Quantitative Foundation:** 1.0 credit chosen from this list: CSC108H5, 148H5; MAT134Y5, 135Y5, 137Y5
3. **Basic Scientific Foundation:** 1.0 credit chosen from this list: ANT101H5; BIO152H5, 153H5; ERS103H5, 120H5; CHM110H5, 120H5; PHY135Y5, 136H5, 137H5

Be sure to look ahead and plan to complete the prerequisites for any upper-level courses that are of interest to you.

Second Year: 2.5 credits:

1. **Environmental Management Perspectives:** ENV201H5
2. **Biological & Ecological Perspectives:** 0.5 credit chosen from this list: BIO200H5, 204H5, 205H5, 206H5, 215H5
3. **Geographical Perspectives:** 0.5 credit chosen from this list: GGR214H5, 217H5, 227H5
4. **Physical & Chemical Perspectives:** 0.5 credit chosen from this list: CHM231H5, 242H5, JCP221H5; ERS201H5, 202H5, 203H5; PHY237H5
5. **Analytical & Research Methods:** 0.5 credit chosen from this list: CHM211H5; BIO360H5; GGR276H5, 278H5, 337H5; STA220H5; or another program-relevant 200/300-level Research Methods course (SCI), with permission of the Program Advisor

Upper Years: 2.5 credits:

1. **Field, Experiential & Research Perspectives:** 0.5 credit chosen from this list: ANT318H5; BIO313H5, 329H5, 416H5; ERS325H5; ENV232H5, 299Y5, 331H5, 399Y5, 400Y5; GGR317H5 (with field-trip option), 379H5; SCI395H5, 396H5, 498H5, 499H5; or another program-relevant Field, Experiential, or Research course (SCI), with permission of the Program Advisor
2. **Biogeochemical Perspectives:** 1.5 credit chosen from this list: BIO311H5, 312H5, 318Y5, 328H5, 330H5, 333H5, 373H5, 405H5, 406H5, 436H5, 464H5; GGR305H5, 307H5, 309H5, 311H5, 312H5,

315H5, 316H5, 317H5, 321H5, 337H5, 338H5, 372H5, 375H5, 377H5, 378H5, 403H1, 406H5, 407H5, 409H1, 413H1, 463H5, 464H5, 479H5; CHM310H1, 311H5, 333H5, 347H5, 361H5, 362H5, 391H5, 393H5; ENV315H1; ERS315H5, 321H5; PHY331H5, 332H5

3. **Social, Economic & Policy Perspectives:** 0.5 credit chosen from this list: ANT357H5, 368H5, 370H5; ECO373Y5; ENG259H5; ENV393H5; GGR329H5, 333H5, 345H5, 348H5, 349H5, 361H5, 365H5, 367H5, 369H5, 370H5, 378H5, 380H5; HIS318H5, 319H5; MGT394H5; PHL255H5, 273H5, 373H1; POL250Y5, 343Y5; SOC226H5, 339H5, 349H5, 356H5; WRI375H5 **Note:** ENV490H5, 491H5 can substitute for #1, #2, #3, or #4 as course requirements, where appropriate, and with permission of the Program Advisor or Academic Counsellor.

Note This is intended to be an interdisciplinary program. At least four different disciplines must be represented among the courses that are counted as program requirements. For example, a course list selected from ENV + GGR + HIS + PHL is acceptable, but a course list selected only from ENV + GGR + HIS is not; a course list selected from ENV + ENG + ECO + POL is acceptable, but a course list selected only from ENV + ECO + POL is not. Please contact the Program Advisors or Academic Counsellor if you have any questions about the validity of your course selections.

Minor Program ERMIN1061 Environmental Science (Science)

Within an Honours degree, 4.0 credits are required, of which at least 1.0 must be at the 300 level.

Limited Enrolment – Enrolment in this program is limited to student who have completed ENV100Y5 with a mark of 60% or higher.

First Year: 1.0 credit:

1. **Introduction:** ENV100Y5

Be sure to look ahead and plan to complete the prerequisites for any upper-level courses that are of interest to you.

Second Year: 2.0 credits:

1. **Environmental Management Perspectives:** ENV201H5
2. **Biological & Ecological Perspectives:** 0.5 credit chosen from this list: BIO200H5, 201H5, 204H5, 205H5, 206H5
3. **Geographical & Earth Science Perspectives:** 1.0 credit chosen from this list: GGR214H5, 217H5, 227H5; ERS201H5, 202H5, 203H5

Upper Years: 1.0 credit:

1. **Field, Experiential & Research Perspectives:** 0.5 credit chosen from this list: ANT318H5; BIO313H5, 329H5, 416H5; ERS325H5; ENV299Y5, 399Y5; GGR317H5 (with field trip option), 379H5; SCI395H5, 396H5; or another program-relevant Field, Experiential, or Research course, with permission of the Program Advisor
2. **Biogeochemical Perspectives:** 0.5 credit chosen from this list: BIO311H5, 330H5, 333H5, 373H5; CHM311H5, 333H5, 347H5, 361H5, 362H5, 391H5, 393H5; ENV490H5, 491H5 (in years when these Special Topics courses are offered in a SCI format); ERS315H5, 321H5; GGR305H5, 307H5, 309H5, 311H5, 312H5, 315H5, 316H5, 317H5, 321H5, 337H5, 338H5, 372H5, 375H5, 377H5, 378H5; PHY331H5, 332H5

This is intended to be an interdisciplinary program. At least three different disciplines must be represented among the courses that are counted as program requirements. For example, a course list selected from ENV + BIO + ERS is acceptable, but a course list selected only from ENV + BIO is not; a course list selected from ENV + BIO + CHM is acceptable, but a course list selected only from ENV + ERS is not. Please contact the Program Advisors or Academic Counsellor if you have any questions about the validity of your course selections.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time. Students may take no more than 2.0 credits combined in ROP, individual project courses, or thesis courses at the 300/400 level for credit toward their Environment program.

List of Courses

ENV100Y5 The Environment (SCI)

This introductory environmental science course examines large-scale features of Earth, natural hazards, Earth's climate and weather systems, energy and mineral resources, human population growth, extinction and biodiversity, environmental toxins, vanishing soils and expanding deserts, forests, urban environmental management, and food resources. Interdisciplinary interaction among Science, Social Science, and Humanities is a major theme. [72L]

ENV201H5 Environmental and Resource Management (SSc)

(Formerly GGR234H5) The course explores the principles of environmental and natural resource policy in the context of ecologically sustainable development. We take a world view with a Canadian focus. Emphasis on institutional instruments. Monitoring approaches, such as ecological footprint calculations, are explored in-depth. Cases in point include acid rain, air and water quality and forest resources. [24L, 12P]

Prerequisite: GGR117Y5/ ENV100Y5

Corequisite: GGR234H5 (formerly ENV201H5)

ENV232H5 Environmental Sustainability Practicum (SSc,SCI)

This course, offered in collaboration with campus administrative offices of the University of Toronto Mississauga, provides Environment Students with practical collaborative work experience. In preparation for upper-year field courses and internships. Students will work with the campus Environmental Project Coordinator and participating faculty to develop skills in communication, interdisciplinary teamwork, problem identification, and reporting while working on an environmental project on campus or in the local community. This course is strongly recommended for Specialist and Major students in any of the Environment Programs. [24S, 12P]

Prerequisite: 2nd-year standing in any of the Environment Specialist or Major Programs with a CGPA of 2.00 or higher or PI.

ENV299Y5 Research Opportunity Program (SSc,SCI)

This course provides a richly rewarding opportunity for students in their second year to work on a research project with a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

ENV331H5 International Environmental Sustainability - Kawartha Lakes Ontario (SSc,SCI)

This practical field course will provide an opportunity for students to gain valuable experience in environmental sustainability studies. The Kawartha Lakes, about 1.5 hours NE of Toronto, face considerable challenges with respect to water resources, pollution, land use changes, and urban expansion. During a one-week stay in August, students will participate in seminars on environmental sustainability and resource management at Sir Sanford Fleming College and/or the Kawartha Conservation Authority offices, and undertake natural and/or social science studies on sustainability in at least one of the Kawartha Lakes (Pigeon, Sturgeon). Preparatory meetings will be held prior to departure, and seminar/poster presentations on research outcomes will be made during the following Fall Term.

Prerequisite: 3rd-year standing in any of the ENV Specialist Programs, or P.I., plus application and interview.

Admission to course will be through application due by March 15. The student's application will be to Prof. H. Shear, and must include a current transcript, a current curriculum vita, and a letter of application explaining why their qualifications and interest make them suitable candidates for the opportunity. Completion of ENV232H5 is an asset. Applicants who meet minimum criteria will be selected for an interview. Acceptance will be based on a combination of GPA, experience, qualifications and interview performance. There is a cost associated with this course that accepted students will be responsible for. Enrolment Control: An optimum number of students will be determined each year based on travel feasibility and resources.

ENV393H5 Methods of Environmental Assessment (SSc)

The course focuses on the methodologies for measuring and predicting the impact of development on the bio-physical and socio-economic environments. Topics include environmental assessment, law and institutions, environmental mediation, monitoring, mitigation, evaluation, risk assessment. The types of impact assessment (IA) methods examined vary from year to year (e.g. economic IA, ecological IA). [24L, 6P]

Prerequisite: ENV100Y5, ECO100Y5/ 1.0 credit from 100-level POL

Corequisite: ENV201H5 (formerly GGR234H5)

Note: Course was formerly GGR393H5.

ENV399Y5 Research Opportunity Program (SSc,SCI)

This course provides a richly rewarding opportunity for students in their second year to work on a research project with a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

ENV400Y5 Environmental Internship (SSc,SCI)

Through a part-time, unpaid work placement, students apply the environmental expertise gained through previous course work. Placements are made at local conservation authorities, municipalities, environmental consulting companies, corporations, federal agencies, and other organizations. **You must submit your application to Sabrina Ferrari (sabrina.ferrari@utoronto.ca) by March 1 to apply for the course.** Specialists in an Environment Program will be given priority for admission. It is difficult to place students with CGPA of less than 2.5. If you are in this position and this is a required course for your program, please see a Program Advisor or the Academic Counsellor for an alternative course placement.
Prerequisite: 4th year standing, P.I

ENV420H5 Geography of Food: Geographical Patterns and Environmental Impacts (SSc)

This seminar course examines the geographic patterns and environmental impacts of our food production and distribution system. Topics include the sustainability of the current system as well as alternatives to the norm. The geographic focus is Southern Ontario. Topics such as food miles, urban agriculture, and small scale production systems are also evaluated. [24S] (This is a cross-listing course as GGR419H5)
Exclusion: GGR419H5; GGR489H5F offered in 2009-2010
Recommended Preparation: GGR287H5

ENV490H5 Special Topics in Environmental Studies (SCI)

These courses highlight various topics of special interest in environmental studies. The specific focus and format of the course will vary, depending on the chosen topic. The course will not be offered every year. Please check with the Academic Counsellor, Sabrina Ferrari (905-828-5465), for further information. [24L]
Prerequisite: 4th year standing, ENV100Y5

ENV491H5 Special Topics in Environmental Studies (SSc)

These courses highlight various topics of special interest in environmental studies. The specific focus and format of the courses will vary, depending on the chosen topic. The courses will not be offered every year. Please check with the Academic Counsellor, Sabrina Ferrari (905-828-5465), for further information. [24L]
Prerequisite: 4th year standing, ENV100Y5, P.I.

ENV495H5 Restoration Ecology I (SCI)

Restoration ecology is an emerging cross-disciplinary field of study that concerns human activities undertaken to promote the recovery, health, integrity and sustainability of degraded ecosystems. This course introduces the fundamental concepts of ecological restoration, addressing topics such as assessing ecosystem health, resilience, resistance and stability; community structure and biodiversity; invasive species; ecosystem processes and functions; societal aspects of ecological restoration (e.g., the relationship between social, economic and environmental sustainability). Many types of ecosystems (marine, freshwater, terrestrial, tropical and temperate) will be studied, largely through case-study investigations. Occasional field exercises on campus will be scheduled during regular class meeting times. [24L, 12T]
Prerequisite: ENV100 and P.I.; completion of at least 10 credits. BIO205 is STRONGLY recommended. Preference will be given to students enrolled in an ENV program

ENV496H5 Restoration Ecology II (SCI)

The follow-up course to Restoration Ecology I, ENV496 will build on its theoretical foundations to focus on student involvement in a variety of restoration projects planned or underway by Credit Valley Conservation and other groups in Mississauga and the greater Credit Valley watershed. The emphasis here is on planning and implementation of restoration projects; good scientific design; understanding policies and procedures; identifying and working with stakeholders, etc. Occasional field exercises may be scheduled during regular class meeting times. [24L, 12T]
Prerequisite: ENV495H5 (Restoration Ecology I) or P.I.

ENV497H5 Environmental Research Project (SSc,SCI)

This independent project course is designed to give students experience in the definition and execution of a one-term research study on an environmental topic, under the guidance of a member of the faculty. Students who wish to pursue this option with a specific faculty member or who have an idea for a research project should approach the faculty member early - before the start of the academic term - to negotiate the terms of the project. [12P]
Prerequisite: Prerequisite: P.I., Completion of 3rd-year requirements for a Major or Specialist program in the Environment.

ENV498Y5 Environmental Research Project (SSc,SCI)

This independent project course is designed to give students experience in the definition and execution of a major research study on an environmental topic, under the guidance of a member of the faculty. Students who wish to pursue this option with a specific faculty member or who have an idea for a research project should approach the faculty member early - before the start of the academic term - to negotiate the terms of the project. [24P]

Prerequisite: P.I., Completion of 3rd-year requirements for a Major or Specialist

Erindale Courses

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

Under this heading are placed certain courses that, because of their interdisciplinary nature, are not part of the curriculum of a single academic department.

ERI203H5 Introduction to Scholarly Research (HUM,SSc)

An introduction to scholarly approaches to research including theoretical frameworks for the organization of information in print and digital resources, critical strategies for acquiring, evaluating and communicating information, and the ethical and legal obligations of using information in scholarly contexts. [24L, 12T]

ERI235H5 Russian & Soviet Cinema II: New Wave, Ideology & Dissent, the End of an Empire (HUM)

A systematic study of the Russian cinematic tradition from the political and cultural "thaw" of the late 1950s to the present. The revolution in the theory and practice of film art in the 1950s-60; 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 are subtitled in English.

Exclusion: SLA235H1

ERI260H5 Organizational Behaviour (SSc)

(Formerly WDW260H5) Introduction to the nature of organizations and the behaviour of individuals and groups within organizations, including such topics as culture and diversity, reward systems, motivation, leadership, politics, communication, decision-making, conflict, group processes and organizational change. Not recommended for students in Commerce programs [36L]

Exclusion: CCT324H5, MGT262H5, MGM300H5, PSY332H1, WDW260H1

Prerequisite: 4.0 credits and CGPA of at least 2.0

Note: ERI260H5 is administered through the Department of Economics for the Industrial Relations Program.

ERI360H5 Compensation (SSc)

This course explores the theory and process of developing compensation systems which is the single largest budget component in many organizations. The course considers how the design of compensation systems affects organizations' attractiveness to job seekers and the behaviour of current employees. The course provides students with an understanding of the principles, processes, issues and techniques involved in establishing compensation and reward programs in organizations within a framework of fairness and equity. The course focuses on the major components in developing an effective compensation and rewards program such as legislation, principles of equity and fairness, job analysis, job evaluation, compensation surveys, benefits and incentives. Current events in relation to compensation and rewards are explored. [24L]

Prerequisite: ECO244Y5, ERI260H5 or MGM300H5, MGT262H5

European Studies (HBA)

This program was discontinued in September 2007. Students already enrolled in this program may continue to follow it.

List of Courses**FGI200Y5 Europe: Nation-State to Supranational Union (HUM,SSc)**

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, multinationalism, internationalism and supranationalism. [48L, 24T]

Exclusion: HIS241H5, 242H5, EUR200Y5

For Distribution Requirement purposes this is a Humanities or a Social Science course.

Exceptionality in Human Learning (HBSc)

Offered through the Department of Psychology

Program Director and Undergraduate Advisor
Dr. S.B. Kamenetsky
905-828-3958
stuart.kamenetsky@utoronto.ca

This program is designed to provide a broad scholarly foundation for addressing issues concerning children and adults who have disabilities and/or are gifted. Interested students might include:

1. those who at a later stage may wish to pursue more advanced work in psychology, special education, rehabilitation, social work, group home management, adult retraining, etc., or study in areas related to hearing or visual impairment, learning disabilities, developmental delay, physical disability, or related fields.
2. those wanting to know more about the psychology, sociology and biology of exceptional individuals, particularly as these become issues of public policy.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
BIO	Biology (page 76)
CHM	Chemistry (page 92)
ECO	Economics (page 143)
ENG	English (page 153)
FRE	French (page 184)
HIS	History (page 207)
JAL	Linguistics (page 242)
LIN	Linguistics (page 242)
PHL	Philosophy (page 263)
PSY	Psychology (page 287)
RLG	History of Religions (page 220)
SCI	Science (page 294)
SOC	Sociology (page 296)
STA	Statistics (page 306)

Specialist Program ERSPE1883 Exceptionality in Human Learning (Science)

13.0 credits are required, including at least 3.5 300/400 level credits and 1.5 400 level credits.

Limited Enrolment – Enrolment is limited to students who have:

1. completed any Gr.12(4U) Mathematics or equivalent*;
2. completed 8.0 credits;
3. at least 75% as the average of PSY201H5, 210H5, 213H5 and at least 1.0 FCE in 200 series ANT/BIO/SOC courses
4. a minimum CGPA of 2.70.

*** Students applying to this program from 2014/15 will be required to have completed Gr.12(4U) Biology and Advanced Functions or equivalent.**

Meeting the minimum grade requirements does not guarantee admission. Further information is available on the Psychology Department web site:
www.utm.utoronto.ca/psychology.

First Year: PSY100Y5; (ANT101H5, 102H5)/ (BIO152H5, 153H5)/ 1.0 credit from BIO204H5, 205H5, 206H5, 207H5/ SOC100H5

Second Year :

1. PSY201H5/ BIO360H5/ ECO220Y5/ 227Y5/ SOC350H5/ STA218H5/ 220H5/
2. PSY210H5, 213H5
3. 0.5 credit from the following: PSY202H5 (or equivalent), 240H5, 270H5, 274H5, 280H5, 290H5, 295H5

Second and Higher Years :

1. 3.0 credits from the following: PSY310H5, 311H5, 312H5, 315H5, 316H5, 318H5, 319H5, 321H5, 325H5, 331H5, 333H5, 340H5, 341H5, 343H5, 344H5, 346H5, 353H5, 374H5, 376H5, 384H5, 385H5, 393H5
2. PSY442Y5 and at least 0.5 credit from the following: PSY400Y5, 403H5, 404H5, 405H5, 406H5, 410H5, 415H5, 440H5, 474H5, 495H5
NOTE: Primary Junior CTEP students are exempt from PSY442Y5 and may take PSY345H5 and any 0.5 FCE 400 level course in psychology instead.
3. 2.0 credits from one of the following lists:
 - (a) ANT203Y5, 204H5, 205H5, 206H5, 207H5, 241Y5, 306H5, 322H5, 331H5, 332H5, 333H5, 334H5, 335H5, 339Y5, 362H5, 364H5, 401H5, 434H5, 460H5, 461H5
 - (b) SOC209H5, 211H5, 216H5, 244H5, 263H5, 284H5, 302H5, 307H5, 310H5, 316H5, 323H5, 332H5, 348H5, 356H5, 365H5, 368H5, 371H5, 375H5, 456H5

- (c) BIO204H5, 205H5, 206H5, 207H5, 210Y5, 215H5, 315H5, 341H5, 370Y5, 371H5, 372H5, 380H5, 403H5, 407H5, 443H5, 476H5, 477H5; ANT203Y5, 331H5, 332H5, 333H5, 334H5, 339Y5; PSL201Y1

NOTE: Students who took SOC100H5 must take 2.5 credits from List 3(b)

4. 2.5 additional credits to be selected from the following (no more than 1.0 credit from any one discipline):

ANT Any course in 3(a) not counted previously

SOC Any course in 3(b) not counted previously

BIO Any course in 3(c) not counted previously

CHM CHM242H5, 243H5, 341H5, 345H5, 347H5, 361H5, 362H5, 371H5

ENG ENG234H5

FGI/FRE FGI225Y5, FRE355H5

HIS HIS308H5, 310H5, 326Y5, 338H5

LIN LIN100Y5, 200H5, 256H5, 358H5, 380H5

JAL JAL253H5, 355H5

PHL PHL243H5, 244H5, 255H5, 267H5, 271H5, 272H5, 274H5, 277Y5, 282H5, 283H5, 290H5, 350H5, 355H5, 358H5, 375H5, 380H5

RLG RLG314H5

SCI SCI395H5, 396H5, 499H5

WGS Any course

Major Program ERMAJ1883 Exceptionality in Human Learning (Science)

7.0 credits are required; including at least 2.0 300/400 level courses

Limited Enrolment – Enrolment in this program is limited to students who have:

1. completed any Gr.12(4U) Mathematics or equivalent*;
2. completed 4.0 credits;
3. a grade of at least 63% in PSY100Y5;
4. successfully completed 1.0 credit from BIO152H5/ 153H5/ 204H5/ 205H5/ 206H5/ 207H5; and
5. a minimum CGPA of 2.00.

* First year students applying to this program from 2014/15 will be required to have completed Gr.12(4U) Biology and Advanced Functions or equivalent.

Students not initially meeting these requirements may be admissible after meeting the second-year requirements. Further information is available on the Psychology Department website:

www.utm.utoronto.ca/psychology

Higher Years:

1. PSY201H5/ BIO360H5/ ECO220Y5/ 227Y5/ SOC350H5/ STA218H5/ 220H5/
2. PSY210H5, 213H5
3. 2.5 credits from the following: PSY310H5, 311H5, 312H5, 315H5, 316H5, 318H5, 319H5, 321H5, 325H5, 331H5, 333H5, 340H5, 341H5, 343H5, 344H5, 345H5, 346H5, 353H5, 374H5, 376H5, 384H5, 385H5, 393H5
4. 1.0 additional credit from the following: BIO204H5, 205H5, 206H5, 207H5, 210Y5, 215H5, 304H5, 315H5, 341H5, 370Y5, 371H5, 372H5, 380H5, 403H5, 407H5, 443H5, 476H5, 477H5; ANT203Y5, 331H5, 332H5, 334H5, 339Y5; PSL201Y1

Important notes about Psychology programs and courses.

1. Enrolment in all programs offered by the Psychology Department is limited. Students who do NOT earn a sufficiently high grade in PSY100Y5 to be eligible for enrolment may reapply when they satisfy the second-year requirements and are encouraged to consult with the undergraduate advisor. Further information is available on the Psychology Department website.
www.utm.utoronto.ca/psychology
2. **Access to courses.** PSY309H5, 319H5, 329H5, 379H5, 399H5 and all 400-level courses have limited enrolments and are normally restricted. Access to all other 300-level courses will be controlled by the department. Priority is given to students enrolled in programs offered by the Psychology Department. Spaces may be allotted on the basis of CGPA. Highest priority is given to students enrolled in one of the Specialist Programs. Consult the U of T Mississauga Registration Guide (available at www.utm.utoronto.ca) for specific information.
3. Students may take no more than 2.0 credits combined in ROP, Individual Projects or Thesis courses (contact Undergraduate Advisor for exemptions).
4. **Students who wish to take Psychology courses at the St. George campus may do so provided that they have completed the prerequisite courses and have obtained permission from the Psychology Undergraduate Advisor at the St. George campus.** If they wish to use these courses to fulfill U of T Mississauga program requirements, they must also consult the undergraduate advisor at U of T Mississauga.

IMPORTANT: Students without pre- and co-requisites or written permission of the undergraduate advisor can be de-registered from courses at any time.

First Year: PSY100Y5; 1.0 credit from (BIO152H5, BIO153H5), 204H5, 205H5, 206H5, 207H5

Financial Economics (HBSc)

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ECO Economics (page 143)
MAT Mathematics (page 256)
STA Statistics (page 306)

* MAT223H5/ 223H1/ 224H5/ 240H1 is strongly recommended as preparation for ECO327Y5/ 375H1. Students taking one of these credits can have that course count in lieu of one half of a 300+ ECO credit required for this program.

Specialist Program ERSPE2722 Financial Economics (Science)

13 full credits including at least 1.0 credit at the 400 level.

Limited Enrolment – Enrolment in this program is limited to students with 70% in ECO100Y1/ 100Y5, 63% in MAT134Y5/ 135Y1/ 135Y5 or 60% in MAT137Y1/ 137Y5/ 157Y1, 70% in ECO206Y1/ 206Y5, 70% in ECO208Y1/ 208Y5, 70% 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 a CGPA of 3.3, or with the approval of the Chair or Associate Chair of the Economics Department.

Students enrolled in this program cannot simultaneously be enrolled in any other Economics specialist, joint specialist, major or minor program, or in the Commerce and Finance Program.

Note: This is a joint program with the Economics Department on the St. George Campus. Some required courses may be offered on one campus in any given year. Students registered at either campus may have to attend lectures on the other campus in such cases.

First Year: ECO100Y5/ 100Y1; 60% in MAT134Y5 or 60% in MAT135Y1/ 135Y5 or 55% in MAT137Y1/ 137Y5/ 157Y1

Higher Years:

1. ECO206Y5/ 206Y1
2. ECO208Y5/ 208Y1
3. ECO227Y5/ 227Y1/ STA(257H1, 261H1)/STA(257H5, 261H5)
4. ECO325H5/ 325H1; ECO326H5/ 326H1
5. ECO327Y5*/ECO(375H1,376H1)*
6. ECO358H5/ 358H1; ECO359H5/ 359H1
7. 5 additional full 300+ ECO credits or their equivalent of which at least 1.0 credit must be chosen from ECO349H5/ 329H1, 356H1, 434H5, 456H1, 460H5, 461H5/ 461H1, 462H1, 463H5. Not more than one full credit may be in Economic History.

Forensic Science (HBSc)

Professors Emeriti

W.R. Cummins, B.Sc., Ph.D.
J. Melbye, B.A., M.A., Ph.D., D.A.B.F.A.

Professors

M. Dryer, B.A., M.Sc., M.Sc.BMC
G.S. Graham, B.Sc., M.Sc., M.A., Ph.D.
S.B. Kamenetsky, B.A., M.A., Ph.D.
U.J. Krull, B.Sc., M.Sc., Ph.D., FCIC
L. Lax, B.A., B.Sc.AAM, M.Ed., Ph.D.(C.)
H.E. Ragab, M.D. Ph.D.
T.L. Rogers, B.A., M.A., Ph.D.
D.G. Smith, B.A., M.A., Ph.D.
D. Urbszat, B.Sc., LL.B., M.A., Ph.D.

Program Director and Faculty Advisor
T.L. Rogers, B.A., M.A., Ph.D.

Adjunct Professors

K.L. Gruspier, B.A., M.A., Ph.D., J.D.
K.W. Hindmarsh, BSPHm., M.Sc., Ph.D., FCSFS
M.S. Pollanen, B.Sc., Ph.D., M.D., MRCPATH,
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Forensic Science is the study of physical evidence in a modern legal context. It is best defined as "science in service to the courts."

There are many subfields of Forensic Science including Forensic Anthropology, Forensic Biology, Forensic Chemistry, Forensic Computer Science, Forensic Psychology, etc. The single, unifying paradigm of Forensic Science is the search for truth and the meaning of evidence in both criminal investigations and through courts of law.

U of T Mississauga's Forensic Science BSc program, the first of its kind in Canada, is designed to provide the student with an understanding of scientific analyses, theories, laboratory skills, applications, and field techniques – while allowing the student to emphasize one particular area in greater detail. This is accomplished through the requirement of a either a Forensic Science Major program – which must be pursued together with a second science major program in an approved area of study (see below for listings of approved second science majors) OR a Forensic Science Specialist program where students pursue one of the streams of specialization (see below for listings of areas of specializations).

Entry into the Forensic Science programs is limited.

Students are urged to read program information in this calendar very carefully.

ALL students contemplating Forensic Science as their intended area of study **MUST** first complete the required introductory university level courses (see specific FSC program for min. requirements) before they can apply to be considered for admission into the program.

The selection of the second science major is limited. While other majors must be approved by the FSC Faculty Advisor, the following are approved:

- **Anthropology B.Sc.** with emphasis on forensic and biological anthropology
- **Biology** with emphasis on forensic biology and molecular biology
- **Chemistry** with emphasis on forensic chemistry
- **Computer Science** with emphasis on forensic computer science
- **Psychology** with emphasis on forensic psychology

Each of these approved second science majors has basic departmental requirements that must be fulfilled (students must check individual departmental listings for specific second science major program requirements). In addition to these basic requirements, there are provisions for a number of options.

Students are strongly advised to consult with the Forensic Science program advisor who can provide recommended courses among these options to direct student preparation for a career in their chosen field of interest. Students are also advised to consult with the individual departmental faculty student advisor for recommended guidelines for course selection within their second science major.

In addition to the Forensic Science (Double) Major program, **the following Forensic Science Specialist programs are available for more directed study:** Forensic Anthropology; Forensic Biology; Forensic Chemistry and Forensic Psychology.

Notes: Entry into all Forensic Science Programs is by special application only. Forensic Science programs direct on-line application and application procedures are available at: www.utm.utoronto.ca/forensic

- **Applications open:** March 1 of each year.
- **Application deadline:** May 1 of each year.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
BIO	Biology (page 76)
CHM	Chemistry (page 92)
FSC	Forensic Science (page 178)
HSC	Biomedical Communications (page 85)
JCP	Chemistry (page 92)
MAT	Mathematics (page 256)
PHY	Physics (page 270)
PSY	Psychology (page 287)
STA	Statistics (page 306)
WRI	Professional Writing and Communication (page 281)

Specialist Program ERSPE1338 Forensic Anthropology (Science)

Within an Honours degree, at least 16.0 credits are required.

Limited Enrolment – Admission into the Forensic Anthropology program is by special application ONLY. To be considered for admission into the program, ALL students, including students admitted into the 1st year Forensic Science category, **MUST** submit a direct online FSC Application, upon completing the minimum requirements. **Meeting the minimum requirements does not guarantee admission into the program.**

Minimum Requirements:

1. Completion of 4.0 credits; including 3.0 science credits.
2. Completion of ANT101H5 and ANT102H5 with a grade of at least 75% in each (students applying to enrol after second year must have completed 8.0 credits and achieved at least 75% in each of ANT200H5, ANT201H5, ANT203Y5 and ANT205H5).
3. A minimum Cumulative Grade Point Average of at least **3.0** *The actual minimum CGPA varies from year to year but is never lower than 3.0*

Application for admission into the program for ALL students can be found at:

www.utm.utoronto.ca/forensic

Forensic Science Applications Open: **March 1 of each year**

Forensic Science Application Deadline: **May 1 of each year**

First Year: ANT101H5, 102H5; BIO152H5, 153H5; FSC239Y5

Second Year: ANT200H5, ANT201H5, 203Y5, 205H5; BIO210Y5; FSC271H5

Third Year: ANT306H5, 312H5, 317H5, 334H5, 336H5/ FSC310H5, ANT340H5, FSC300H5, 302H5, 360H5, BIO360H5

Fourth Year: ANT415H5, 439Y5; FSC401H5, 481Y5; HSC403H5, 405H5

Recommended: ANT338H5, 358H5, 438H5; WRI203H5, 307H5; BIO361H5

NOTES:

1. The program requirements in effect at the time the student is admitted to the program must be met in order to fulfill the degree requirements.
2. Prospective students already holding a degree in Anthropology may not complete the Forensic Anthropology Specialist Program due to the overlap of course content for courses already completed in their first specialty.

3. Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time. Once a student has been admitted into a FSC program stream, written authorization from the Forensic Science program advisor **MUST** be obtained for any request of change in a student's area of study within the Forensic Science program.

Specialist Program ERSPE1410 Forensic Biology (Science)

Within an Honours degree, 16.0 credits are required.

Limited Enrolment – Admission into the Forensic Biology program is by special application ONLY. To be considered for admission into the program, ALL students, including students admitted into the 1st year Forensic Science category, **MUST** submit a direct online FSC application, upon completing the 1st year minimum requirements. **Meeting the minimum requirements does not guarantee admission into the program.** **Minimum Requirements:**

1. Completion of 4.0 credits; including 3.0 science credits
2. Completion of BIO152H5 and BIO153H5 with 65% or better
3. Completion of CHM140Y5/ (CHM110H5, 120H5) with 65% or better
4. Completion of MAT134Y5/ 135Y5/ 137Y
5. A minimum Cumulative Grade Point Average of at least **3.0**. *The actual minimum CGPA requirement varies from year to year but is never lower than 3.0*

Application for admission into the program for ALL students can be found at:

www.utm.utoronto.ca/forensic Forensic Science Applications Open: **March 1 of each year** Forensic Science Application Deadline: **May 1 of each year**

First Year: BIO152H5, 153H5; CHM140Y5/ (CHM110H5, 120H5); FSC239Y5; MAT134Y5/ 135Y5/ 137Y5; PHY135Y5/ (PHY136H/137H)

Second Year: BIO204H5, 206H5, 207H5, 210Y5, 215H5; CHM242H5, 243H5; FSC271H5

Third and Fourth Years:

1. BIO360H5, 361H5; FSC300H5, 302H5, 310H5/ BIO314H5; FSC360H, 401H5, 402H5, 481Y5
2. 1.5 additional BIO credits at the 300/400 level.

NOTES:

1. The program requirements in effect at the time the student is admitted to the program must be met in order to fulfill the degree requirements.

2. Prospective students already holding a degree in Biology, may not complete the Forensic Biology Specialist Program due to the overlap of course content already completed in their first specialty.
3. **Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.**
4. Once a student has been admitted into a FSC program, written authorization from the Forensic Science program advisor **MUST** be obtained for any request of change in a student's area of study within the Forensic Science program.

Specialist Program ERSPE1009 Forensic Chemistry (Science)

Within an Honours degree, 16.0 credits are required. This program is accredited by the Canadian Society for Chemistry.

Limited Enrolment – Admission into the Forensic Science-Chemistry program is by special application ONLY. To be considered for admission into the program, ALL students, including students admitted into the 1st year Forensic Science category, **MUST** submit a direct online FSC application, upon completing the 1st year minimum requirements .

Meeting the minimum requirements does not guarantee admission into the program.

Minimum Requirements:

1. Completion of 4.0 credits; including 3.0 science credits.
2. Completion of CHM140Y5/ (CHM110H5, 120H5) with 65% or better.
3. Completion of MAT134Y5/ 135Y5/ 137Y5.
4. A minimum Cumulative Grade Point Average of at least **3.0**. ***The actual minimum CGPA requirement varies from year to year but is never lower than 3.0***

Application for admission into the program for ALL students can be found at:

www.utm.utoronto.ca/forensic Forensic Science Applications Open: **March 1 of each year** Forensic Science Application Deadline: **May 1 of each year**

4. CHM414H5, 416H5
5. FSC481Y5 (with chemistry focus)

NOTES:

1. Students are strongly advised to consult the program advisor regarding their program of study.
2. Corequisites for CHM371H5 are CHM361H5, 362H5.
3. Students are strongly urged to take as many forensic sciences courses as possible from the following list: ANT205H5, 306H5; BIO338H5; FSC306H5, 310H5, 350H5, 361H5; PSY328H5, 344H5.
4. The program requirements in effect at the time the student is admitted to the program must be met in order to fulfill the degree requirements.
5. Prospective students already holding a degree in Chemistry, cannot complete a Forensic Chemistry Specialist Program due to the overlap of course content for courses already completed in their first specialty.
6. **Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.**
7. Once a student has been admitted into a FSC program stream, written authorization from the Forensic Science program advisor **MUST** be obtained for any request of change in a student's area of study within the Forensic Science program.

First Year: CHM140Y5/ (CHM110H5, 120H5); FSC239Y5; MAT134Y5/ 135Y5/ 137Y5; PHY135Y5/ (PHY136H5, 137H5)

Higher Years:

1. BIO200H5, 206H5, 215H5; CHM211H5; JCP221H5, CHM231H5, 242H5, 243H5; FSC271H5
2. CHM311H5, 331H5/ 333H5, 341H5/ 345H5, 361H5, 371H5/ 391H5, 393H5; BIO360H5/ STA220H5
3. FSC300H5, 302H5, 360H5, 402H5

Specialist Program ERSPE1505 Forensic Psychology (Science)

Within an Honours degree, at least 15.5 credits are required.

Limited Enrolment – Admission into the Forensic Psychology Specialist Program is limited to a relatively small number of students per year and admission is by special application ONLY. To be considered for admission into the program, ALL students, including students admitted into the 1st year Forensic Science category, **MUST** submit a direct online FSC application, upon completing the 1st year minimum requirements. **Meeting the minimum requirements does not guarantee admission into the program.**

Minimum Requirements:

1. Completion of any Gr.12(4U) Mathematics or equivalent*;
2. Completion of 8.0 credits
3. At least 77% as the average of PSY201H5, 202H5 and at least 1.5 FCE in 200 series PSY courses; and
4. A minimum Cumulative Grade Point Average of at least **3.0**. *The actual minimum CGPA requirement varies from year to year but is never lower than 3.0*

* **First year students applying to this program in 2014/15 will be required to have completed Gr.12(4U) Biology and Advanced Functions or equivalent.**

Application for admission into the program for ALL students can be found at:

www.utm.utoronto.ca/forensic Forensic Science Applications Open: **March 1 of each year** Forensic Science Application Deadline: **May 1 of each year**

First Year: PSY100Y5; FSC239Y5; BIO152H5, 153H5

Higher Years:

1. (PSY201H5, 202H5)/ (BIO360H5, 361H5)
2. FSC271H5; BIO210Y5
3. PSY210H5/ 213H5, 220H5, 230H5, 240H5, 270H5/ 274H5/ 280H5, 290H5, 295H5
4. FSC300H5, 302H5; PSY309H5, 328H5, 340H5/ 341H5, 344H5, 346H5
5. One laboratory course from: PSY329H5, 379H5, 399H5
6. 1.0 credits from the following: FSC306H5, 360H5, 361H5, 401H5, 402H5, 489H5; BIO338H5
7. 0.5 credit from PSY 400 level series courses
8. FSC481Y5

NOTES:

1. The program requirements in effect at the time the student is admitted to the program must be met in order to fulfill the degree requirements.
2. Prospective students already holding a degree in Psychology may not complete a Forensic Psychology Specialist Program due to the overlap of course content for courses already completed in their first specialty .
3. **Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.**
4. Once a student has been admitted into a FSC program stream, written authorization from the Forensic Science program advisor **MUST** be obtained for any request of change in a student's area of study within the Forensic Science program.

Major Program ERMAJ0205 Forensic Science (Science)

Note: This program must be taken as part of a **Double Major** Honours degree. 9.0 credits are required including at least 2.0 at the 300/400 level.

Limited Enrolment – Admission into the Forensic Science Major program is by special application ONLY and **MUST** be completed in conjunction with a second approved Major (see Notes 'Second Major' below). To be considered for admission into the program, ALL students, including students admitted into the 1st year Forensic Science category, **MUST** submit a direct online FSC Application, upon completing the 1st year minimum requirements. **Meeting the minimum requirements does not guarantee admission into the program.**

Minimum Requirements:

1. Completion of 4.0 credits; including 3.0 science credits.
2. Completion of CHM140Y5/ (CHM110H5, 120H5) with 65% or better.
3. Completion of MAT134Y5/ 135Y5/ 137Y.
4. A minimum Cumulative Grade Point Average of at least **2.7** The actual CGPA requirement in any particular year may exceed this value, in order to achieve a proper balance between enrolments and teaching resources.
5. Enrolment in an Approved Second Major (See Second Major Notes: 1).

Application for admission into the program for ALL students can be found at:

www.utm.utoronto.ca/forensic Forensic Science Applications Open: **March 1 of each year** Forensic Science Application Deadline: **May 1 of each year**

First Year: CHM140Y5/ (CHM110H5, 120H5), FSC239Y5; MAT134Y5/ 135Y5/ 137Y5; PHY135Y5/ (PHY136H5, 137H5)

Second Year: CHM242H5, 243H5; FSC271H5

Third Year: FSC360H5; (STA220H5, 221H5)/ (BIO360H5, 361H5)

Fourth Year: 2.0 credits from the following list: FSC300H5, 302H5, 306H5, 310H5, 350H5, 361H5, 401H5, 402H5, 489H5

NOTES:

Second Major

1. The Forensic Science Major is part of a Double Major Honours Degree program and **MUST** be completed in conjunction with one of the following approved second major programs: **Anthropology (Science), Biology, Chemistry, Computer Science or Psychology** (Other 2nd Majors may be possible with permission of the Forensic Science program director).
2. Students intending to complete the Forensic Science Major with an Anthropology Second Major **MUST** select the **ERMAJ0105 Anthropology (Science) Major**. As part of the ANT (Sci) Major elective requirements (3.0 ANT science courses) students are recommended to take the following: ANT 205H5; 306H5, 334H5, 340H5, 439Y5. Additional related courses include: ANT 336/FSC 310H5, ANT 338H5, 415H5.
3. For information on program requirements and enrolment procedures for each of the second major programs, students should consult the individual departmental faculty advisor or the departmental program descriptions listed within this calendar.
4. In each of the 2nd majors, certain courses are compulsory and where a choice of courses is available, students should consult the Forensic Science Student Advisor for the most appropriate selection.
5. The program requirements in effect at the time the student is admitted to the program must be met in order to fulfill the degree requirements.
6. Once a student has been admitted into a FSC program stream, written authorization from the Forensic Science program advisor **MUST** be obtained for any request of change in a student's area of study within the Forensic Science program, **including the second science major**. Prospective students already holding a degree in Biology, Chemistry, Computer Science, Psychology or Anthropology may not complete a Forensic Science program in their first specialty due to the overlap of course content for courses already completed.
7. Once a student has been admitted into a FSC program stream, written authorization from the Forensic Science program advisor **MUST** be obtained for any request of change in a student's area of study within the Forensic Science program, **including the second science major**.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

ANT205H5 Introduction to Forensic Anthropology (SCI)

Introduction to the field of forensic anthropology. Outlines the areas in which forensic anthropologists may contribute to a death investigation and introduces basic concepts relating to the recovery and analysis of human remains. [24L, 12P]

Prerequisite: ANT101H5/ BIO152H5

FSC239Y5 (1) Introduction to Forensic Science (SCI)

Forensic science is the application of any scientific inquiry into criminal investigation. The results of such inquiry are ultimately for presentation in courts of law. Specialists in forensic science will lecture on a variety of topics that will include crime scene investigation, the role of the coroner, forensic pathology, forensic chemistry, forensic botany, forensic entomology, forensic anthropology, forensic dentistry, psychology and toxicology. Case studies will be reviewed, and the role of the expert witness will be examined. [48L, 24T]

(Priority given to Forensic Science Specialists and Majors.)

FSC271H5 Ethics and Professionalism in Forensic Science (SCI)

This course covers three main areas of importance to the forensic scientist and the expert witness: Ethics in forensic science; the scientific theories of proof and evidence including the critical thinking and logic; analysis of how the major philosophical schools of thought impact on forensic science. [24L, 12T]

Prerequisite: FSC239Y5

(Priority given to Forensic Science Specialists and Majors.)

FSC300H5 Forensic Identification (SCI)

Focusing on the scene of the crime and evidence found there, this course is an introduction to the field of forensic identification. Topics include: crime scene protocols, management and reconstruction; image collection, storage and enhancement; recognition collection; and chain of custody and preservation of evidence. [24L, 24P]

Exclusion: FSC301H5

Prerequisite: FSC239Y5; FSC271H5

(Priority given to Forensic Science Specialists and Majors.)

FSC302H5 Advanced Forensic Identification (SCI)

Continuing from FSC300H5 which critically examines identification processes, which are compared and contrasted to systematics; impression evidence and physical match theory and practice; biometrics; presentation of evidence; the expert witness; requirements of society and the court. [24L, 24P]

Exclusion: FSC301H5

Prerequisite: FSC300H5

(Priority given to Forensic Science Specialists and Majors.)

ANT306H5 Forensic Anthropology Field School (SCI)

Introduction to the field of forensic anthropological field techniques and scene interpretation. A 2-week field school will be held on the U of T Mississauga campus (Monday to Friday 9 a.m. to 5 p.m., two weeks in August). Weekly 2-hour classes will be held during the fall term. In these classes, students will examine casts, maps, photos and other evidence collected in the field, for the purposes of scene reconstruction and presentation in court. [104P]

Prerequisite: ANT205H5

FSC306H5 Forensic Identification Field School (SCI)

A field course to complement the material covered in FSC300H, Forensic Identification. The field school will be held on the U of T Mississauga Campus over a 2-week period during the summer term and during weekly two hour labs in the fall term. In these classes, students will experience practical exposure to field and laboratory methods related to evidence recognition, collection and interpretation. Emphasis will be placed on the types of evidence collected, processed, and analyzed by forensic identification specialists. General evidence and small object photography techniques will be an important component of the course. [104P]

Prerequisite: FSC239Y5, FSC300H5 / P.I.

(Priority given to Forensic Science Specialists and Majors.)

FSC310H5 DNA Evidence in Forensic Science (SCI)

Genetic markers including Short Tandem Repeats (STRs) and Single Nucleotide Polymorphisms (SNPs) and the technologies employed for characterizing them will be described in detail. Problems encountered in forensic casework will be discussed such as DNA degradation, PCR-contamination, mixed samples, limitations of genotyping technologies, etc. Other topics include DNA databases, quality control and laboratory validation issues, and admissibility in the courtroom. Several case studies will be employed. [24L, 24P]

Prerequisite: BIO206H5; FSC239Y5

(Priority given to Forensic Science Specialists and Majors.)

BIO338H5 Forensic Entomology (SCI)

A survey of the Class Insecta, emphasizing the functional morphology, physiology, behaviour and evolution of this highly successful group of animals. Laboratories focus on gaining proficiency in recognizing insect orders, families and genera. Students will carry out a field study of the changes in insect faunas that occur during decomposition of carrion and write a term paper based upon their observations. Two insect collections are required: a general collection that illustrates the diversity of insects found in a region and a collection of species of forensic importance that are attracted to carrion. [24L, 36P]

Exclusion: BIO334H5

Prerequisite: (BIO152H5, 153H5)

PSY344H5 Forensic Psychology (SCI)

An exploration of the role of psychology in forensic science (the application of scientific inquiry into criminal investigation). Topics, which will vary from year to year, could include the assessment of criminal responsibility, competency issues, psychiatric disorders associated with crime, criminal profiling, behavioural analysis of a crime scene, prediction of dangerousness, workplace and family violence, sexual assault/abuse/rape, recovered memories, detection of malingering and deception, deindividuation and bystander intervention, social psychology of the jury, use of psychological tests in legal cases, witness preparation/interrogation, and the psychologist as expert witness. [36L]

Prerequisite: PSY240H5

FSC350H5 Special Topics in Forensic Science (SCI)

A survey of recent developments in theory and applications of forensic science with particular attention to case studies in a particular branch of forensic science. [26L]

Prerequisite: FSC239Y/P.I.

(Priority given to Forensic Science Specialists and Majors.)

FSC360H5 Evidence, Law and Forensic Science in Canada (SSc)

This course will explore the position of forensic science within the law in Canada. The focus will be on the evolution of the acceptance of forensic science in Canadian criminal law and its current position within the legal system. Topics include: Evidence law, expert evidence law, defining the expert, differing standards of legal acceptance for police sciences and others. Important historical documents and legal advancements will be surveyed.

Exclusion: FSC250H5

Prerequisite: FSC 239Y5, FSC 271H5

(Priority given to Forensic Science Specialists and Majors.)

FSC361H5 Forensic Science and Miscarriages of Justice (SSc)

This course will explore the role of forensic science in miscarriages of justice specifically in Canada, although US examples will also be utilized. Recent case law and in particular the results of Justice Kaufman's Inquiry into the wrongful conviction of Guy Paul Morin will be assessed, in order to understand the current expectations of forensic science by the legal system in Canada. Issues such as legal vs. scientific truth and science vs. junk science are persistent course themes. Specific areas of forensic science will be covered such as; fingerprints, hair/fibre evidence, handwriting, bite marks, DNA and other topical fields.

Exclusion: FSC250H5

Prerequisite: FSC360H5

(Priority given to Forensic Science Specialists and Majors.)

FSC401H5 Forensic Pathology (SCI)

This is a general introduction of the scientific and medical basis of forensic pathology. The scientific aspects of death investigation will be emphasized including cause, manner, and time of death. Emphasis will be placed in developing skills to critically examine the published forensic scientific and medical literature. Also included are human rights death investigation, and custodial death. [24L, 12T]

Prerequisite: FSC239Y5; BIO204H5/ (BIO210H5/ BIO210Y5) /380H5

Recommended Preparation: FSC271H5/ PHL271H5
(Priority given to Forensic Science Specialists and Majors.)

FSC402H5 Forensic Toxicology (SCI)

This course will focus on topics in forensic toxicology. Lectures will include a review of pharmacokinetics, analytical techniques and quality assurance measures used in forensic toxicology, the effects of drugs on human performance and post-mortem toxicology of illicit drugs, pharmaceutical drugs and other poisons. The major focus of this course will be the role that a forensic toxicologist plays in criminal and death investigation. Tutorials will include case study exercises and mock court demonstrations with the possibility for field trips to court and forensic agencies in Ontario. [24L, 12T]

Prerequisite: FSC239Y5; CHM140Y5

Recommended Preparation: FSC271H5/ PHL271H5
(Priority given to Forensic Science Specialists and Majors.)

HSC403H5 Visualization of Forensic Demonstrative Evidence (SCI)

This course examines the visual representation of forensic demonstrative evidence in Canadian courtrooms. A case-based approach simulates professional practice. Forensic anthropology, biology and visual communication theory are explored in new media for presentation. Visual problem solving skills are developed through collaboration. In class, presentations and practica are combined with critical analysis of visualizations. [12L, 24P]

Prerequisite: Completion of 10.0 credits, including one of FSC239Y5/ BIO210H5/ 210Y5/ ANT205H5/ ANT306H5

HSC405H5 Digital Forensic Facial Reconstruction (SCI)

This course examines the technical, anatomical, and sociological considerations involved in the three-dimensional digital forensic facial reconstruction. Human facial anatomy, traditional reconstruction techniques, and the use of 3D animation software are the core areas of study. Using this knowledge, students reconstruct the facial identity of an individual known only from cranial skeletal remains. [24S, 12P]

Prerequisite: 10.0 completed credits including ANT203Y5, 205H5/ BIO210H5

Recommended Preparation: ANT334H5

FSC406H5 Introduction To 3D Crime Scene Mapping And Reconstruction (SCI)

This course introduces students to both standard and innovative methods of documenting, mapping, analyzing, and visualizing/reconstructing a crime scene for investigative purposes, including: total stations; laser scanners; panoramic images; and photogrammetry. Course topics range from basic measurement theory and statistics, to legal considerations such as admissibility and preparing courtroom-ready visualizations. Students will learn to use forensic mapping software to create courtroom-ready graphics. [12L, 24P]

Prerequisite: FSC300H5, FSC302H5

(Priority given to Forensic Science Specialists and Majors.)

ANT439Y5 Advanced Forensic Anthropology (SCI)

The identification of the remains of victims of homicide, mass disasters and political atrocities. Special methods are used in the recovery and identification of human skeletal remains for presentation in courts of law. [24L, 48P]

Prerequisite: ANT205H5

Corequisite: ANT306H5, 334Y5/ (334H5, 340H5)

FSC481Y5 Internship in Forensic Science (SCI)

As the capstone experience for the Forensic Science Specialist Programs, this course provides students with professional practice and research experience. Students are required to attend classes that address proper research design and methodology, as well as issues of professional practice in the forensic sciences including: ethics; research protocols; written and verbal communication skills; professional communication (interviews, letters, emails, reports, presentations, and publications); and expert witness testimony. Students will also be placed with a participating forensic agency to conduct research and gain an understanding of the unit's daily operations. In addition to practice presentations, critiques, an ethics approval application, a 10-15 page research proposal, and a mock interview, students are required to formally present the results of their research at the annual Forensic Science Day symposium and submit a publication quality manuscript of their work.

Exclusion: FSC439Y5

Prerequisite: Enrolment in Forensic Science Specialist or Major ; **STA220H5, STA221H5 / BIO360H5, BIO361H5 / PSY201, PSY202H5** and permission of instructor.

Recommended Preparation: (Restricted to Forensic Science Specialists and Majors.)

Notes:

1. Students **MUST** contact Ms. Jennifer Storer-Folt in the Internship Support Office (Room 3201D, William G. Davis Bldg., 905-828-5295, jennifer.storerfolt@utoronto.ca) by the November preceding the placement.
2. Students must have one free day (Monday - Friday) to work in a placement position, and must be in the final year before graduation. **Students are expected to provide their own transportation to placement work site.**
3. Five week placements during the summer may be possible.

FSC489H5 Advanced Independent Project (SSc,SCI)

For students wishing to complete original research, a feasibility study, critical review of the literature or position paper leading towards a publishable report.

Prerequisite: Permission of Program Director.

Recommended Preparation: (Restricted to Forensic Science Specialists and Majors.)

French (HBA)

Professors

C. Elkabas, B.A., M.A., Ph.D.
 C. Evans, L.èsL., M.A., Ph.D.
 M. Lord, B.A., M.A., Ph.D.
 P. Michelucci, L.èsL., M.èsL., M.A., D.E.A., Ph.D.
 E. Nikiema, L.èsL., M.èsL., M.A., Ph.D.
 M. Pirvulescu, B.A., M.A., Ph.D.

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A. Mollica (Brock University)

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The French program at U of T Mississauga offers students a wide range of courses designed to provide the basis for the study of our French heritage. For students wishing to pursue a program leading to a high level of competence in French, we offer two series of language courses: FSL105H5, 106H5, 205Y5, 305Y5, 405H5, 406H5 for non-specialists; FRE180H5, FRE181H5, FRE280Y5, 382H5, 383H5, for specialists, maximizing contact with instructors and using modern methods. In addition, students wishing to improve their language competence in oral skills have access to a state-of-the-art audio-lingual laboratory and, for written skills, to a variety of computerized aids in the computer laboratory. Native speakers of French are not permitted to take for credit FSL105H5, 106H5,

205Y5, 305Y5, 405H5, 406H5, FRE180H5, FRE181H5. Such students, however, will be admitted to any FRE course for which FRE180H5, FRE181H5 is a prerequisite. For those wishing a full program of French Studies, our offerings satisfy the requirements for certification in French Language and Literature, Teaching and Learning of French and Italian, and French Language and Linguistics. These offerings comprise a variety of fields: French as a language system (including Business French); critical approaches to literature; teaching and learning French (including teaching with new technology); and the study of both French and Québec Literatures.

U of T Mississauga's French graduates have moved on to advanced studies and to careers in business, teaching, translation, transportation and other fields where skills in French are a necessity.

French is available at U of T Mississauga as a teachable subject in the Concurrent Teacher Education Program.

Notes:

1. Completion of at least 3.0 courses in the Specialist program and an average of 70% in 2.0 of the 3.0 courses, may entitle a student to participate in third year in the Study Elsewhere Program in France or Québec.
2. The series FSL105H5 to 306H5, which may be taken as part of a Minor program, is intended to provide instruction for students specializing in other disciplines who wish to develop a practical knowledge of French. The series emphasizes self-help beyond the limits of the individual courses.
3. Students who are not specializing or majoring in French may be admitted to French courses in Literature and Linguistics, with permission of the Department, if they demonstrate the appropriate level of competence in French. Students seeking admission to FSL205Y5 or FSL305Y5 will be required to provide a high school record as evidence of their level in French. Particularly well-qualified students may, as the result of a language proficiency test, be permitted to enrol in 200-level language courses.
4. Courses with the FSL designator cannot be counted towards a Major or Specialist program in French Studies.

The following is a guide for first-year course selection.

- **FSL105H5: No knowledge of French (no secondary school studies).**
- **FSL106H5:** Very limited knowledge of French or as indicated by Placement Test results
- **FSL205Y5:** Intermediate knowledge of French or by Placement Test results.
- **FSL305Y5/ FRE180H5, FRE181H5:** Secondary School graduation French-core program (12U) or as indicated by Placement Test results.

- **Complete Placement Test:** Extended French (12U - Extended)
- **FRE280Y5:** Immersion French (12U - Immersion):
Consult Department/as indicated by Placement Test results: French-language schooling.

Online Placement Test site is located at
<http://www.utm.utoronto.ca/frenchplacement>

Courses offered every year: FSL105H5, 106H5, 205Y5, 305Y5, 405H5, 406H5; FRE180H5, 181H5, 240Y5, 272Y5, 280Y5, 382H5, 383H5; FRE225Y5

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

FRE	French (page 184)
FSL	French (page 184)
ITA	Italian (page 230)
LTL	Italian (page 230)

Specialist Program ERSPE1092 Language Teaching and Learning: French and Italian (Arts)

For an Honours degree, 14.0 credits are required. The program must include a minimum of 4.0 300/400 level credits (2.0 in French and 2.0 in Italian), 1.0 credit at the 400 level (either in French or Italian).

Students who have completed FRE225Y5 will replace LTL227H5 with a 0.5 credit in ITA.

French

7.0 credits are required.

Limited Enrolment – A final grade of 63% is required in FRE180H5 and FRE181H5 (or equivalent).

First Year: FRE180H5 and FRE181H5 (minimum grade of 63% is required) or equivalent. Students exempted from these courses may replace them with a higher level 1.0 credit in FRE.

Higher Years:

1. FRE280Y5 (or equivalent), FRE225Y5, FRE240Y5, FRE272Y5
2. FRE382H5, FRE383H5.
3. 1.0 credit to be chosen among the **FRE** courses in Teaching and Learning (FRE325H5, 345H5, 352H5, 353H5, 355H5)

Italian

7.0 credits are required.

1. ITA200Y5
2. ITA350Y5
3. 1.0 credit from ITA354Y5, 371Y5
4. LTL227H5, ITA437H5
5. 2.0 credits from ITA375Y5, ITA376H5, ITA493H5, ITA494H5
6. 1.0 credit in Italian literature

Please note FRE225Y5 is an exclusion to LTL227H5. Students can replace LTL227H5 with an upper level LTL course to be counted towards Italian.

Specialist Program ERSPE1295 French Studies (Arts)

Within an Honours degree, 10.0 credits are required, including at least 4.0 300/400 level credits in literature/linguistics, 1.0 of which must be a 400 level credit.

Limited Enrolment – Minimum grade of 63% required in FRE180H5 and FRE181H5 (or equivalent course).

Note: Students enrolled in the French Language and Literature specialist program prior to Summer 2012 should consult the Department regarding completion of their program.

First Year: FRE180H5 and FRE181H5 (minimum grade of 63% is required) or equivalent. Students exempted from these courses may replace them with a higher level 1.0 credit in FRE.

Second Year: FRE240Y5, FRE272Y5, FRE280Y5

Third/Fourth Years:

1. FRE372H5, FRE373H5, FRE382H5, FRE383H5
2. 4.0 FRE credits to be completed within **ONE** area of concentration:
 - (a) French Linguistics
 - (b) French Literary and Cultural Studies

Major Program ERMAJ1056 Language Teaching and Learning: French (Arts)

8.0 credits are required.

Limited Enrolment – Minimum grade of 63% required in FRE180H5 and FRE181H5 (or equivalent course).

First Year: FRE180H5 and FRE181H5 (minimum grade of 63% is required) or equivalent. Students exempted from these courses may replace them with a higher level 1.0 credit in FRE.

Second Year: FRE280Y5 (or equivalent), FRE225Y5, FRE240Y5, FRE272Y5

Third & Fourth Year:

- FRE382H5, FRE383H5
- 1.0 credit to be chosen among the FRE Language Teaching and Learning courses (FRE325H5, 345H5, 352H5, 353H5, 355H5)
- 1.0 credit to be chosen among the LTL Language Teaching and Learning courses (LTL380H5, 417H5, 456H5, 486H5, 488H5)

Major Program ERMAJ1295 French Studies (Arts)

8.0 credits are required, including at least 2.0 300/400 level courses.

Limited Enrolment – 63% required in FRE180H5 and FRE181H5 or equivalent.

Note: Students enrolled in the French Language and Literature major program prior to Summer 2012 should consult the Department regarding completion of their program.

First Year: FRE180H5 and FRE181H5 (minimum grade of 63% is required) or equivalent. Students exempted from these courses may replace them with a higher level 1.0 credit in FRE.

Second Year: FRE240Y5, FRE272Y5, FRE280Y5

Third Year:

1. FRE382H5 and FRE383H5
2. 3.0 credits to be completed in **ONE** area of concentration: (a) French Linguistics; (b) French Literary and Cultural Studies

Course Categories:

- **French Linguistics:** FRE325H5, 355H5, 372H5, 373H5, 374H5, 375Y5, 376H5, 378H5, 387H5, 476H5, 489H5
- **French Literary and Cultural Studies :** FRE312H5, 316H5, 317H5, 319H5, 320H5, 356H5, 357H5, 363H5, 364H5, 365H5, 367H5, 368H5, 369H5, 391H5, 393H5, 397H5, 445H5, 446H5
- **Teaching & Learning:** LTL380H5, 388Y5, 417H5, 456H5, 486H5, 488H5; FRE325H5, 345H5, 352H5, 353H5, 355H5

Minor Program ERMIN1000 Functional French (Arts)

For students seeking a level of linguistic competence with a view to using the French language in professional Francophone environments.

4.0 credits in either FSL or FRE with at least 2.0 credits at the 300 level. **Courses offered in English are excluded (FRC and LTL).** The obligatory core series courses (FSL105H5, 106H5, 205Y5, 305Y5) must be included in the student's program, unless exemptions are approved by the Department. **For any exemption received, the student must fill the gap with another suitable FSL/FRE course in order to complete the required minimum 4.0 courses.** To complete the minor in Functional French program, students can choose from courses such as FSL466H5, 405H5, 406H5, or any other FRE/FSL course (excluding those offered in English-FRC and LTL) providing that the prerequisite requirements have been met.

Minor Program ERMIN1054 Francophone Studies (Arts)

For students wishing to develop an understanding and appreciation of the mentality and diversity that Francophone cultures express.

2.0 FSL credits plus 2.0 FRC credits including 1.0 at the 300 level.

Minor Program ERMIN1135 French Studies (Arts)

For students wishing to choose a combination of language, literature and/or linguistic offerings with limited access to core French courses.

4.0 FRE credits with at least 2.0 FRE language credits (FRE180Y5/ FRE280Y5/ FRE382H5/ FRE383H5). Must include 1.0 FRE credit at the 300/400 level. Courses offered in English are excluded (FRC and LTL).

Note: Students enrolled in the French Studies Minor prior to Summer 2003 should consult the Department regarding completion of their program.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

FSL105H5 Functional French-Novice (HUM)

The objective of this course, which serves as a starting point in our series of FSL courses, is to introduce students to the phonetic system of the French language, to teach basic vocabulary and to develop awareness of the functions of language in different situations and contexts. [36L, 12P]

Exclusion: FSL100H5 or higher. **Not open to students who have studied French in secondary school. Not open to native speakers of French.**

FSL106H5 Functional French-Advanced Beginner (HUM)

Through the use of teaching materials adapted to their level, our students will continue to develop their linguistic abilities and to use them in specific situations. For instance, they will learn how to ask for information, how to refuse or accept an offer. On completion of this course, a linguistic system of basic but useful structures will have been assimilated. [36L, 12P]

Exclusion: Grade 11 French/FSL102H5 or higher. Not open to native speakers of French.

Prerequisite: FSL105H5 or Placement test results.

FRE180H5 Introduction to French Studies I (HUM)

A broad introduction to French studies combining: lectures on the social and cultural history of France from the Middle Ages to the 17th century as a guide to understanding its literature; representative readings from major literary movements; and a systematic study of composition through a variety of exercises designed to improve mastery of the basic features of written French.

Exclusion: FRE180Y5, FSL221Y5, FSL305Y5 or higher.

Not open to native speakers of French and graduates of Extended French or French immersion programs.

Prerequisite: Grade 12 Core French (FSF4U)/FSL205Y/FSL121Y1.

FRE181H5 Introduction to French Studies II (HUM)

A broad introduction to French studies combining: lectures on the social and cultural history of France from the 18th to the 21st century as a guide to understanding its literature; representative readings from major literary movements; and a systematic study of grammar and composition through a variety of exercises designed to improve accuracy and logical structure in written French.

Prerequisite: FRE180H5

FSL205Y5 Functional French-Intermediate (HUM)

Course will focus on nuancing acquired oral and written skills and on further developing their fluency and accuracy through the production and understanding of increasingly complex sentences and messages, refined and broadened lexical forms and expressions, and the development of discourse-oriented abilities to create meaning. Students will learn to participate in broader interpersonal interactions and to communicate emotion, opinion, value, and abstraction, while using some idiomatic expressions and a greater breadth and subtlety of vocabulary. [72L, 24P]

Exclusion: FSL205H5, 206H5 or higher.

Prerequisite: FSL106H5/ Grade 11 OAC French/Placement test recommendation.

FRE225Y5 Teaching and Learning a Second/Foreign Language (HUM)

In this course, students will learn how language teaching methods have evolved since the 1960s. Different teaching approaches (behaviourist, audio-visual, communicative, cognitive and humanistic) will be examined with special emphasis on the teaching of the four skills (reading, writing, listening, speaking) and culture, on the roles of the teacher and the learner in the classroom.

Exclusion: LTL225Y5, LTL227H5.

Prerequisite: FRE180Y5 or FRE180H5 and FRE181H5

FRE240Y5 Introduction to Literary Analysis (HUM)

Techniques of literary criticism and analysis, based on a detailed study of selected novels, drama and poetry from the 17th century to the present. [48L, 24T]

Prerequisite: FRE180Y5 or FRE180H5 and FRE181H5 or permission of the Department

FRE272Y5 The Structure of Modern French: An Introduction (HUM)

A descriptive study of contemporary French: phonetics and phonology, morphology, syntax and semantics. Theoretical discussion in general linguistics. [48L, 24T]

Prerequisite: FRE180Y5 or FRE180H5 and FRE181H5

FRE280Y5 Advanced Language Practice II: Written and Oral (HUM)

Improvement of the four language skills (writing, reading, listening and speaking) for students specializing in French studies at the university. [48L, 24P]

Exclusion: FSL280Y5, FSL331Y1, FSL341Y1 or higher.

Prerequisite: FRE180H5 and FRE181H5 (minimum grade of 63% is required)/FSL221Y1 or equivalent/Gr. 12U (Immersion or Extended French)/or Placement Test results.

FRE299Y5 Research Opportunity Program (HUM)

This courses provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

FRC301H5 The French Connection: Literature in French in Québec and Ontario (HUM)

(Offered in English) A study of contemporary Francophone writers from Québec and Ontario; writers from elsewhere in Canada might also be included. Assignments written in English.

Exclusion: FRE301H5, FRE300H5

FRC303H5 Women of Québec, New Brunswick and Manitoba (HUM)

(Offered in English). A study of various images of women in Quebec, New Brunswick and Manitoba as presented in literary works by both Anglophone and translated Francophone authors such as Margaret Laurence, Constance Beresford-Howe, Anne Hébert, Gabrielle Roy, Antonine Maillet and Michel Tremblay. Assignments and exams written in English

Exclusion: FRE302H5, FRE303H5

FSL305Y5 Functional French-High Intermediate (HUM)

Course will focus on analysing and synthesizing information, comparing and reformulating types of discourse, developing fluency and spontaneity, accuracy and complexity in proficiently discussing or writing about current and cultural affairs and contentious topics, using different registers and tone in a broad range of situations as well as documents encountered in daily life. Formerly FSL 305H and FSL 306H. [72L, 24P]

Exclusion: FSL221Y1, FSL305H5, FSL306H5 or higher

Prerequisite: FSL205Y5/ FSL206H5/ Placement test recommendation.

FRE312H5 Québec Novel II: The Quiet Revolution (HUM)

The evolution and revolution of contemporary Québec fiction. [24L]

Exclusion: FRE310Y5

Prerequisite: FRE240Y5 or permission of the department.

FRE316H5 From Land to Town: Québec Culture & Literature from its Beginning to 1959 (HUM)

The purpose of this course is to introduce various aspects of the culture and literature of Québec through its history from its very beginning in the 17th and 18th centuries to the mid-20th Century. The course will familiarize students with important socio-historical and cultural events in the development of Québec society, from Nouvelle-France and French Canadian points of view. Special attention will be given to techniques of analysis and literary criticism as applied to novels, plays, poetry and essays. As a supplement to the reading material, documentaries and a feature film will be presented in class. [24L]

Prerequisite: FRE240Y5 or permission of the department.

FRE317H5 Québec Theatre II: Contemporary Directions (HUM)

The affirmation of Québec theatrical forms: search for new dramatic structures. [24L]

Exclusion: FRE311Y5

Prerequisite: FRE240Y5Y or permission of the department.

FRE319H5 From the Quiet Revolution to Postmodernism: The Evolution of Québec Literature 1960 to the Millennium (HUM)

A study of the change in mentality through the analysis of novels, short stories, plays, films, poetry and essays from 1960 to 2000. Emphasis will be put on historical and sociocultural background and on text analysis. [24L]

Prerequisite: FRE240Y5Y or permission of the department.

FRE320H5 French Literature of Classicism and Enlightenment (HUM)

An introduction to French literature between Classicism and the French Revolution with particular emphasis on its relationship to philosophical, cultural, and political movements of the Enlightenment, providing historical depth to philosophical and socio-political foundations of today's life. A privileged access to, and critique of, modernity in the postmodern age. [24L]

Exclusion: FRE320Y1, FRE320H1

Prerequisite: FRE240Y5

FRE325H5 Language Acquisition of French (HUM)

An introduction to the field of first language acquisition from a theoretical perspective. We will study various aspects: the acquisition of phonology, vocabulary, morphology and syntax. The following topics will be dealt with: the relationship between the development of language and the development of other cognitive aspects; bilingualism; the differences and the similarities between first and second language acquisition. [24L]

Prerequisite: LTL225Y5/ FRE225Y5/ FRE240Y5/ FRE272Y5

FRE345H5 Teaching and Learning French Since the 1970s (HUM)

The aim of this course is to present recent research and its classroom applications in relevant contemporary domains of teaching and learning French as a second language, such as French immersion in Canada, including the implications of early, late and partial immersion; recent developments in the teaching of reading and written comprehension; the use of online resources and the pedagogical impact of Information and Communications Technologies in education.

Prerequisite: FRE280Y5, FRE240Y5/ FRE272Y5

FRE352H5 Teaching French Grammar (HUM)

This course examines practical and theoretical issues surrounding grammar in the language curriculum such as various approaches to the implementation of grammar in language curricula, such as in grammar-translation or task-based learning; the role and limitations of descriptive grammar, including pedagogical grammar; form focus versus meaning focus; interference and error analysis; feedback on errors. Students will be asked to critique and create teaching materials.

Prerequisite: FRE272Y5; FRE280Y5 or equivalent

FRE353H5 Teaching French Culture (HUM)

This course examines practical and theoretical issues surrounding the integration of culture in the language curriculum such as the interface between authentic language and culture; the definition of teaching objectives; appropriate, established and emergent strategies; online resources; cross-cultural communication. Students will be asked to critique and create teaching materials.

Prerequisite: FRE272Y5; FRE280Y5

FRE355H5 Psycholinguistics and Teaching and Learning French as a Second Language (HUM)

An introduction to the study of the main psychological factors that influence the acquisition and use of French as a second language. To better understand the communication needs of the language learner, we will examine the learner's style (attitude, motivations, learning patterns) in relation to cognitive processes such as perception, production and memory. Emphasis on various teaching strategies. [24L]

Prerequisite: LTL225Y5/ FRE225Y5/ FRE240Y5/ FRE272Y5

FRE356H5 Studies in 17th-century French Literature (HUM)

A close survey of selected literary texts from 17th-century France. Masterpieces of French prose, drama and poetry of the French classical age will be studied with emphasis on the social, political, and artistic background of the time. Selected texts may include plays by Molière and Racine; La Fontaine's *Fables*; La Rochefoucauld's *Maximes*; La Bruyère's *Caractères*.

Prerequisite: FRE240Y5; FRE280Y5 or equivalent.

FRE357H5 Studies in Medieval French (HUM)

A close survey of selected French literary texts from the 11th to the 15th century. Masterpieces of narrative prose and poetry of the French Middle Ages will be studied with emphasis on the social, political, and artistic background of the time. Selected texts may include epic poems such as *The Song of Roland*; Arthurian texts such as *Tristan* by Thomas, *Lancelot* by Chrétien de Troyes, and the *Lays* by Marie de France; satirical texts such as *Le Roman de Renard*; and lyric poetry by Rutebeuf and François Villon. Most readings will be done in modern French translation, a few texts will be studied in the original Old French.

Prerequisite: FRE240Y5; FRE280Y5 or equivalent.

FRE363H5 French Romanticism in Literature and the Arts (HUM)

This course focuses on the French Romantic movement as part of a European renewal of cultural and esthetic forms of expression. The hero as a marginal individual, notions of escapism, love and death, the revolt against 18th century rationalism and the codification of the Classical period are discussed in relation to works by writers such as Constant, Lamartine, Hugo, and Stendhal.

Prerequisite: FRE240Y5, FRE280Y5 or equivalent.

FRE364H5 Nineteenth-Century Realism and Naturalism (HUM)

Realism and Naturalism dominate the second part of the 19th century and react against romantic idealization by proposing an accurate depiction of reality and a stern representation of human experience. The techniques and styles of "modern" narrative as well as themes such as ambition, alienation, and class struggle are examined in prose fiction by Balzac, Flaubert, Zola and Maupassant.

Exclusion: FRE364Y5.

Prerequisite: FRE240Y5.

FRE365H5 Studies in 18th-century French Literature (HUM)

A close survey of selected literary texts from 18th-century France. Masterpieces of French essay, drama and prose narratives of the French Enlightenment will be studied with emphasis on the social, philosophical, and artistic background of the time. Selected texts may include plays by Voltaire, Beaumarchais or Marivaux; essays by Diderot or Rousseau; fictional narratives by Prévost, Restif de La Bretonne, or Laclos.

Prerequisite: FRE240Y5; FRE280Y5 or equivalent.

FRE367H5 Early Twentieth Century French Novel (HUM)

Prose fiction of the first half of the twentieth century including works by Proust, Gide, Malraux, and Bernanos. [12L, 12T]

Exclusion: FRE426Y5

Prerequisite: FRE240Y5Y or permission of the department.

FRE368H5 From the Existentialist Novel to the New Novel (HUM)

Problems of form and theme in selected novels by Sartre, Camus, Robbe-Grillet and Duras. [12L, 12T]

Exclusion: FRE426Y5

Prerequisite: FRE240Y5Y or permission of the department.

FRE369H5 The French Novel Today (HUM)

Contemporary novels are numerous and varied, ranging from scandalous writings about the self to unusual experiments in story-telling, from fictions dealing with deep social issues to works that express diffidence about literature's power of influence. This course will focus on several extremely contemporary works by authors such as Houellebecq, Ernaux, Duras, or Le Clézio. [24L]

Prerequisite: FRE240Y5Y or permission of the department.

FRE372H5 History of the French Language I (HUM)

A study of the nature and pattern of change from Latin to Medieval French. The course will focus on the place of the French language among the languages of the world and on chronological development of French from its beginnings to the 15th century with special attention to the evolution of sounds, forms and word order. Topics will cover the emergence of Romance languages from Vulgar Latin as well as the Celtic, Germanic and Scandinavian influences on the formation of the French language. A close study of texts dating from the ninth to the 15th century up will be included. The course touches upon history, historical linguistics, socio-linguistics and French literature.

Exclusion: FRE373Y5

Prerequisite: FRE280Y5 or equivalent; FRE272Y5.

FRE373H5 History of the French Language II (HUM)

A survey of the history of the French language from the 15th century to modern times. The course will focus on the standardization of the French language, the regulation of language through legislation, the political use of the French language, the influence of other languages such as Arabic and Italian on French and the origins of regional variations in the Francophone world. A close study of texts dating from the 15th century to modern times will be included. The course touches upon History, Historical Linguistics, Socio-linguistics and French Literature.

Exclusion: FRE373Y5.

Prerequisite: FRE272Y5; FRE280Y5 or equivalent.

FRE374H5 Canadian French (HUM)

(Offered in English) This course offers students the opportunity to become familiar with the primary research methods used in sociolinguistic studies, with how sociolinguistics helps to understand the properties of Canadian French, and with the pedagogical implications arising from sociolinguistic research on Canadian French. This course will contain a research-based component. **All written work is completed in French for students who wish to petition the department for credit toward a Specialist or Major in French.** [24L]

Exclusion: LIN374H5

Prerequisite: FRE280Y5/ FRE272Y5

FRE376H5 French Phonology and Phonetics (HUM)

A study of the phonological system of modern French based on actual samples of speech taken from different regional varieties and socio-economic groups. [24L]

Prerequisite: FRE272Y5

FRE378H5 French Syntax (HUM)

A study of the distribution and relationships of the syntagmatic components of contemporary French, the sentential structure including the principle of coordination, subordination and expansion. Theoretical approaches. [24L]

Prerequisite: FRE272Y5

LTL380H5 Theoretical Issues In Second Language Teaching and Learning (HUM)

This course examines theoretical research on adult second language learning and the resultant implications for second language teaching. Topics include age, affect, communicative competence, and sociolinguistics. Links are drawn to pedagogical practices, including error correction, materials selection, and order and method of presentation. This course is taught in English and is open to students from other disciplines. Students enrolled in this course who submit all written work in the language they are studying (French/Italian) may petition to the department for credit towards a Specialist (French or Italian) or Major (French/Italian).

Exclusion: FGI380H5, LIN380H5

Prerequisite: LTL225Y5/ FRE225Y5, FRE280Y5

FRE382H5 Advanced Language Practice III: Written French (HUM)

Consolidation of writing skills already acquired by students specializing in French studies, with emphasis on advanced process writing techniques.

Exclusion: FSL382H5/ FRE380H5/ FSL442H1. Open to francophones with permission of the Department.

Prerequisite: FRE280Y5/ FSL280Y5 or Placement Test results.

FRE383H5 Advanced Language Practice III: Oral French (HUM)

Consolidation of oral production and aural comprehension

Exclusion: FSL383H5, FRE381H5, FSL443H1. NOT OPEN TO NATIVE SPEAKERS.

Prerequisite: FRE280Y5/ FSL280Y5

FRE387H5 French Morphology (HUM)

A study of the morphological system of modern French, its relationship to syntax and phonology; theoretical notions derived from the analysis of specific data. Special attention will be given to the methods of analysis and classification, as well as selected morphological categories (verbs, nouns, etc.). [24L]

Prerequisite: FRE272Y5

FRE391H5 Women of the Francophone World (HUM)

An in-depth examination of the representation of women in a selection of novels and films from Francophone countries, which will include a combination of works by French, Quebecois, Guadeloupean, Algerian, and Senegalese authors and directors. The course will focus on historical and socio-cultural francophone contexts and will include a discussion of Feminism and of the impact of political systems and ideologies on the lives of women.

Exclusion: FRE391H5, FRE392H5, FRE390H5,

FRE392H5, FRC391H5

Prerequisite: FRE280Y5.

FRE393H5 French Cinéma: An Introduction (HUM)

A historical perspective on French films with a focus on the specificity of French cinéma, from the Poetic Realism of the Thirties to the New Wave of the Fifties and Sixties, the "Cinéma du look" of the Eighties and the various genres of contemporary French cinema: heritage film, film noir and comedies in particular. Recommended foundation course for FRE397H5.

Exclusion: FRE393H5, FRE394H5, FRC393H5

Prerequisite: FRE280Y5

FRE397H5 Films of the Francophone World (HUM)

A study of a selection of films from Francophone countries, e. g. France, Québec, Burkina-Faso, Senegal.

Exclusion: FRE396H5, FRE397H5, FRE395H5, FRC397H5

Prerequisite: FRE280Y5.

Recommended Preparation: FRE393H5

FRE399Y5 Research Opportunity Program (HUM)

This course provides senior undergraduate students who have developed some knowledge of research methods used in the discipline of French studies to work in the research project of a U of T Mississauga professor for course credit. Enrolled students have the opportunity to become involved in original research, develop their research skills, and share in the excitement and discovery of acquiring new knowledge. Project descriptions for participating faculty members for the following summer and fall/winter sessions are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: FRE240Y5/ FRE272Y5.

FSL405H5 Functional French-Advanced I (HUM)

Course will focus on developing both oral and written skills in the production and understanding of complex discourse (including organization, cohesion, nuanced lexical forms and expressions) in order to participate in varied, sustained and unscripted situations. Formerly FSL385H5. [24L, 12P]
Exclusion: FSL385H5, 386H5, FRE382H5, FRE383H5, FSL331Y1, FSL321Y1

Prerequisite: FSL305Y5/ FIF4U/Placement test recommendation.

FSL406H5 Functional French-Advanced II (HUM)

Students will focus on developing both oral and written skills in the production and understanding of complex discourse (including organization, cohesion, nuanced lexical forms and expressions) in order to initiate and sustain varied and unscripted exchanges. Formerly FSL 386H5. [24L, 12P]
Exclusion: FSL385H5, 386H5, FRE382H5, FRE383H5, FSL331Y1, FSL321Y1

Prerequisite: FSL405H5/ FIF4U/Placement test recommendation.

LTL417H5 Second Language Pedagogy (HUM)

This course offers a comprehensive survey and analysis of fundamental concepts and issues related to second, bilingual, and foreign language instruction by developing students' knowledge of second language acquisition, approaches to language teaching, computer-assisted teaching, and pedagogical design and implementation in the language classroom. All written work must be completed in French for students who wish to petition the department for credit toward a Specialist or Major in French. All written work must be completed in Italian for students who wish to petition the department for credit toward a Specialist or Major in Italian.

Exclusion: FGI417H5, LIN417H5

Prerequisite: LTL225Y5/ FRE225Y5, FRE280Y5

FRE445H5 Special Topic in Literature II (HUM)

A study of fiction, non-fiction or theoretical approaches in French literature.

Prerequisite: FRE280Y5

FRE446H5 Advanced Topics in Literature (HUM)

A study of fiction, non-fiction or theoretical approaches in French. [24L]

Prerequisite: FRE240Y5Y or permission of the department.

LTL456H5 Sociolinguistics and Second Language Teaching and Learning (HUM)

This course considers the impact on variant use by second language learners exerted by linguistic and extra-linguistic factors, such as the surrounding linguistic context, age, sex, style, and curricular and extra-curricular exposure. Implications are drawn for second language teaching, including deciding what registers and variants to teach and what activities to employ. All written work must be completed in French for students who wish to petition the department for credit toward a Specialist or Major in French. All written work must be completed in Italian for students who wish to petition the department for credit toward a Specialist or Major in Italian.

Exclusion: FGI456H5, LIN456H5

Prerequisite: FGI225Y5/ LTL225Y5/ FRE225Y5, FRE280Y5

FSL466H5 Writing French: Language of Business (HUM)

A study of vocabulary, grammar and writing techniques involved in business situations (e.g. economics, industrial relations, banking, marketing). Formerly FSL366H5. [36S]

Exclusion: FSL366H5

Corequisite: FSL405H5/ FRE280Y5

FRE476H5 French Semantics (HUM)

Various approaches to the notion of meaning; its functioning at all levels of representation. [12L, 12T]

Prerequisite: FRE272Y5

FRE482H5 Creative Writing (HUM)

This course will look at the creative process and techniques of fiction, poetry and drama (rhetoric, matters of literary genres). Discussions centered on student writing will be developed during workshops.

Exclusion: FSL482H5

Prerequisite: FRE280Y5/ FSL280Y5

LTL486H5 Teaching and Learning Cross-cultural Communication (HUM)

This course examines cross-cultural language use by second language learners from both a theoretical and pedagogical perspective. Topics addressed include the role of pragmatic transfer between native and target languages, individual differences, learning context, and instruction in the development of second language pragmatic competence. [24L, 12T]

Exclusion: LIN486H5

Prerequisite: FRE280Y5, LTL225Y5/ FRE225Y5 plus one additional course from Language Teaching and Learning Group.

LTL488H5 Principles and Strategies for Online Second Language Course Design (HUM)

This course will conduct a critical appraisal of online course materials, and formulate appropriate pedagogical strategies for their exploitation. **This course is taught in English and is open to students from other disciplines. Students enrolled in this course who submit all written work in the language they are studying (French/German/Italian) may petition the department for credit towards a Specialist (French or Italian) or Major (French/German/Italian).** [24P]

Prerequisite: FGI225Y5/ LTL225Y5/ FRE225Y5, FRE280Y5

Recommended Preparation: FGI388Y5/ LTL225Y5

FRE489H5 Advanced Topics in Linguistics: French and Italian Syllable Structure (HUM)

A comparative approach to the study of various phonological processes of contemporary French and Italian. Students will be introduced to current issues on the representation of syllable structure and to problems of syllabification. Emphasis will be put on the examination of French and Italian data, and the synchronic functioning of the two languages. Other aspects of modern phonology will also be discussed. [12L, 12T]

Prerequisite: FRE272Y5

FRE490Y5 Senior Essay (HUM)

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. For Specialists who wish to fulfill the requirements for their fourth year Literature courses. A maximum of 1.0 FCE can be taken in both Senior Essay (FRE490Y5) and Independent Study (FRE491H5, 492H5)

Prerequisite: Permission of the Department

FRE491H5 Independent Study (HUM)

A scholarly project supervised by a Faculty member on a literary or linguistic topic of common interest, including readings, discussions and papers.

Prerequisite: Permission of the Department

FRE492H5 Independent Study (HUM)

A scholarly project supervised by a Faculty member on a literary or linguistic topic of common interest, including readings, discussions and papers.

Prerequisite: Permission of the Department

French and Italian (HBA)

Program Advisor-French

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Program Advisor-Italian

M. Lettieri

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Academic Counsellor

Rosa Ciantar

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Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

FRE French (page 184)

ITA Italian (page 230)

LTL French (page 184)

Combined Specialist Program ERSPE0815 French and Italian (Arts)

Within an Honours degree, 14.0 credits are required. The program must include a minimum of 4.0 300/400 level credits (2.0 in French and 2.0 in Italian) and 1.0 credit at the 400 level (either in French or in Italian).

French

7.0 credits are required.

Limited Enrolment – Final grade of 63% in FRE180H5 and FRE181H5 (or equivalent) is required.

First Year: FRE180H5 and FRE181H5 (minimum grade of 63% is required) or equivalent. Students exempted from these courses may replace them with a higher level 1.0 credit in FRE.

Higher Years:

1. FRE240Y5
2. FRE280Y5, 382H5, 383H5
3. 1.0 credit from French Linguistics
4. 1.0 credit from French Literary and Cultural Studies
5. 1.0 additional credit in French linguistics or literature

Course Categories:

- **French Linguistics:** FRE372H5, FRE373H5, 374H5, 376H5, 378H5, 387H5, 476H5, 489H5
- **French Literary and Cultural Studies:** FRE312H5, 316H5, 317H5, FRE319H5; FRE320H5, FRE356H5, FRE357H5; FRE363H5, FRE364H5, FRE365H5, 367H5, 368H5, 369H5; FRE391H5, FRE393H5, FRE397H5; FRE445H5, FRE446H5
- **Language Teaching & Learning:** FRE325H5, 345H5, 352H5, 353H5, 355H5, LTL380H5, 417H5, 456H5, 486H5, 488H5

Students without pre-and co-requisites or written permission of the instructor can be de-registered from courses at any time.

Italian

7.0 credits are required.

1. ITA200Y5
2. ITA350Y5
3. 1.0 credit from ITA237H5, 239H5, 354Y5
4. ITA231H5/ ITA232H5, ITA420Y5
5. 2.0 additional credits in ITA, excluding ITA100Y5/ 101H5/ 102H5. Courses not used in #1 above may be used. At least 1.0 credit must be in Italian literature (excluding those in item #2 above).

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

Geocomputational Science (HBSc)

Geocomputational Science is the theory and practice that provides the foundation for the development and application of many geospatial technologies. It is a combination of analytical geography and computing science. Students who have grounding in both the geographical and computational disciplines, and can integrate these areas, are much sought after in industry, government and research organizations. It is a major part of the geomatics industry that Industry Canada has identified as a major component of the information technology sector. Any organization with spatially extensive resources and operations requires geocomputational expertise to manage and analyze the spatial data essential to an enterprise's decision making. Geography at U of T Mississauga has a long history of offering courses in the application of geographic information systems and spatial analysis; Computer Science offers many courses that are the foundation for much of information science in general. Combining these strengths in a recognized Geocomputational Science Program provides a formal venue for students who wish to enter the geomatics job market or pursue advanced degrees in fields related to Geocomputational Science.

Program Advisor

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Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CSC	Computer Science (page 125)
ENV	Environment (page 166)
GGR	Geography (page 196)
MAT	Mathematics (page 256)
STA	Statistics (page 306)

Specialist Program ERSPE2171 Geocomputational Science (Science)

The Geocomputational Science Specialist program offers a strong integration of coursework in geography and computer science. This course of study provides students with a solid foundation in geographic theory and problem-solving as well as the computer science skills valued by employers.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria: Have completed this program's requirements for the first year with 65% or better in both GGR117Y5/ ENV100Y5 and CSC148H5. Must also have a Cumulative Grade Point Average (CGPA) of 2.0 or higher for the first year. The minimum CGPA is determined annually. It is never lower than 2.0

Within an Honours degree. 14.0 credits are required.

First Year: 3.5 credits from:
CSC108H5, 148H5; MAT102H5, 135Y5/ 137Y5;
GGR111H5, 112H5/ ENV100Y5

Second Year:: 4.0 credits from:
CSC207H5, 209H5, 236H5, 263H5; MAT223H5, 224H5/
232H5; GGR278H5; STA257H5/ GGR276H5

Third Year: 4.0 credits
within total 4.0 credits, choose 3.0 credits from:
GGR321H5, 337H5, 372H5/ 375H5/ 380H5; CSC343H5,
338H5 STA331H5/ 322H5/ 348H5
and 1.0 credit from list A
LIST A: CSC369H5/ 373H5/ 320H5/ 309H5/ 318H5 [**Note 1**]

Fourth Year: 2.5 credits from
GGR463H5, 464H5, 488H5, 417Y5, CSC492H5/ 493H5/
411H5/ 310H5/ 321H5/ 0.5 credit from CSC369H5/ 373H5/
320H5/ 309H5/ 318H5
[**Notes 1, 2 and 3**]

Note 1: Where there is a choice in courses, some courses have additional prerequisites not in the program.

Note 2: For students to receive credit towards this specialist degree, the projects undertaken in CSC492H5, 493H5 or GGR417Y5 must receive prior approval from the Geocomputational Science program coordinator. This is to insure that the projects have an appropriate level of Geocomputational Science content.

Note 3: It is highly recommended that students intending to pursue graduate studies take GGR417Y5/ CSC492H5/ CSC493H5.

Geographical Information Systems (HBSc)

The Department of Geography offers both BA and BSc programs in *Geography*, a BSc program in *Geographical Information Systems (GIS)*, and it is closely integrated with the spectrum of *Environment* programs.

The general structure of the Geography programs is the **foundation course** (1st year), the **core stream courses** (2nd year) and **specializations** in upper years. The programs, particularly in the first two years, integrate various elements of the human-social-cultural and the biogeophysical traditions with environmental perspectives and analytical methods. After the foundation course(s), students are required to take two courses from their selected core stream and two courses from the other three core streams before they can choose their specialization.

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Program Advisor
Geography
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The Geography curriculum stresses the integrative nature of the discipline as well as the development of skills in geographical information analysis. We expect students to develop the high levels of geographical problem-solving skills required for some of the most dynamic areas of today's job market. Field studies complement lectures by providing material for workshops, developing skills in geographical information analysis, encouraging student involvement in basic enquiry, and building cooperation.

Geography has close links with other disciplines and interdisciplinary programs. Students in other fields will find many courses within Geography that complement their interests and expertise. From Literature to Geology, Chemistry to History, Fine Art to Economics, Geography offers new ways of combining and developing knowledge about the environment in which we all live.

The following courses are counted as Science courses for distribution and program purposes: GGR214H5, 217H5, 227H5, 276H5, 278H5, 305H5, 307H5, 309H5, 311H5, 315H5, 316H5, 317H5, 321H5, 337H5, 338H5, 372H5, 375H5, 376H5, 377H5 379H5, 407H5, 463H5, 479H5, 488H5, 494H5, JBG312H5. All other GGR courses listed in this calendar are considered to be 'Social Science,' except GGR378H5 and GGR417Y5, which can be taken either as 'Science' or 'Social Science.'

Professional Advancement for Geography and Environment Students (PAGES)

The program is based on a series of workshops, career events and related activities designed to help students develop: an awareness of research, career and graduate possibilities; skills required to apply successfully for employment and graduate studies; and personal skills to improve self-confidence and potential within the workplace, professional direction and self-awareness. On successful completion of the program students receive a transcript annotation. Please contact Sabrina Ferrari (sabrina.ferrari@utoronto.ca) for details on registering for this program.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

GGR Geography (page 196)

toward their GIS program. Students must receive permission from Faculty Program Advisor and Academic Counsellor prior to taking GGR courses on other U of T campuses toward their program requirement. No more than 1.0 non-U of T Mississauga credit is accepted in the Geography Specialist program; and no more than 0.5 non-U of T Mississauga credit in the Geography and GIS Major programs.

Major Program ERMAJ0305 Geographical Information Systems (Science)

The GIS BSc offers an analytical perspective on geographical information. In-depth studies, beyond basic geography, include mapping, spatial analysis, digital databases with specializations in modeling, statistical analysis and remote sensing.

7.0 credits are required.

First Year: 1.0 credit: GGR111H5 & GGR112H5

Second Year: 3.0 credits :

1.0 credit: GGR276H5, 278H5

2.0 credits from any other 200-level GGR courses

Third Year: 2.5 credits from the following:

GGR311H5, 321H5, 337H5, 370H5, 372H5, 380H5

Fourth Year: 0.5 credit from the following:

GGR463H5, 464H5, 488H5, 494H5

Minor Program ERMIN0305 Geographical Information Systems (Science)

4.0 credits are required.

First Year: 1.0 credit : GGR111H5 & GGR112H5

Second Year: 1.5 credits:

1.0 credit from GGR276H5, 278H5

0.5 credit from GGR200-level courses.

Third Year: 1.5 credits from the following:

GGR311H5, 321H5, 337H5, 370H5, 372H5, 380H5

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time. Students may take no more than 2.0 credits combined in ROP, individual project courses, or thesis courses at the 300/400 level for credit

Geography (HBA, HBSc)

The Department of Geography offers both BA and BSc programs in *Geography*, as well as a BSc program in *Geographical Information Systems (GIS)*, and it is closely integrated with the spectrum of *Environment* programs.

The general structure of the Geography programs is the **foundation course** (1st year), the **core stream courses** (2nd year) and **specializations** in upper years. The programs, particularly in the first two years, integrate various elements of the human-social-cultural and the biogeophysical traditions with environmental perspectives and analytical methods. After the foundation course(s), students are required to take two courses from their selected core stream and two courses from the other three core streams before they can choose their specialization.

Professors Emeriti

G.H.K. Gad, Dr.Phil., Ph.D.
G. Gracie, B.A.Sc., Ph.Eng., Ph.D., P.Eng.
R. Jaakson, M.Sc., Ph.D.
T.F. McIlwraith, B.A., M.A., Ph.D.
D.S. Munro, B.Sc., M.Sc., Ph.D.

Professors

N. Basiliko, B.Sc. Ph.D.
R.N. Buliung, B.A., M.A., Ph.D.
T. Conway, B.Sc., M.S., Ph.D.
A.G. Danieri, B.A., MPP, Ph.D.
P. Desrochers, B.A., M.A., Ph.D.
T. Duval, B.Sc., M.Sc., Ph.D.
M. Havelka, B.Sc., M.Sc., Ph.D.
J. Leydon, B.A., M.A., Ph.D.
B. Murck, A.B., Ph.D.
A. Olive, B.A., M.A., Ph.D.
V.B. Robinson, B.S., M.S., Ph.D.
A. Walks, B.A., M.A., Ph.D.
K. Wilson, B.A., M.A., Ph.D.

Part time Professors

B. Mandelblatt, B.A., M.A., Ph.D.
H. Shear, B.Sc., Ph.D.

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Geography (Arts)
A. Walks, B.A., M.A., Ph.D.

Geography (Science)
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The Geography curriculum stresses the integrative nature of the discipline as well as the development of skills in geographical information analysis. We expect students to develop the high levels of geographical problem-solving skills required for some of the most dynamic areas of today's job market. Field studies complement lectures by providing material for workshops, developing skills in geographical information analysis, encouraging student involvement in basic enquiry, and building cooperation.

Geography has close links with other disciplines and interdisciplinary programs. Students in other fields will find many courses within Geography that complement their interests and expertise. From Literature to Geology, Chemistry to History, Fine Art to Economics, Geography offers new ways of combining and developing knowledge about the environment in which we all live.

The following courses are counted as Science courses for distribution and program purposes: GGR214H5, 217H5, 227H5, 276H5, 278H5, 305H5, 307H5, 309H5, 311H5, 312H5, 315H5, 316H5, 317H5, 321H5, 337H5, 338H5, 372H5, 375H5, 376H5, 377H5, 379H5, 394H5, 407H5, 463H5, 479H5, 488H5, 494H5. All other GGR courses listed in this calendar are considered to be "Social Science," except GGR378H5 and GGR417Y5, which can be taken either as "Science" or "Social Science."

Professional Advancement for Geography and Environment Students (PAGES)

The program is based on a series of workshops, career events and related activities designed to help students develop: an awareness of research, career and graduate possibilities; skills required to apply successfully for employment and graduate studies; and personal skills to improve self-confidence and potential within the workplace, professional direction and self-awareness. On successful completion of the program students receive a transcript annotation. Please contact Sabrina Ferrari (sabrina.ferrari@utoronto.ca) for details on registering for this program.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

GGR Geography (page 196)

Specialist Program ERSPE1666 Geography (Arts)

The Geography BA program brings together many subjects of interest, ranging from community health issues, urban form and globalization to electoral politics, transportation and economic development. The program emphasizes the development of quantitative and qualitative analytical skills, including cartography, analysis of spatial data, social theory and archival work, which it supplements with field work and collaborative research opportunities. Through their training, geography BA students will become highly skilled and flexible problem solvers, preparing them for some of today's most dynamic areas of the job market.

Limited Enrolment – Enrolment in this program is limited to students who have completed GGR117Y and a Cumulative Grade Point of 2.7 (B-) in the 2nd and 3rd year.

Within an Honours degree, **10.0 credits** are required.

First Year: 1.0 credit: GGR111H5 and GGR112H5

Second Year: 3.5 credits:

2.0 credits from GGR202H5, 207H5, 208H5, 209H5, 252H5, 287H5, 288H5

1.0 credit from GGR276H5, 277H5, 278H5

0.5 credit from GGR214H5, 217H5, 227H5

Third Year: 4.0 credits from the following:

GGR313H5, 325H5, 329H5, 333H5, 345H5, 348H5, 349H5, 353H5, 354H5, 361H5, 365H5, 367H5, 369H5, 370H5, 378H5, 380H5, 381H5, 389H5

Fourth Year: 1.5 credits:

1.0 credit : GGR417Y5

0.5 credit from any *GGR Social Science* designated 400-level courses as described in the Geography Course Descriptions section of this calendar.

Specialist Program ERSPE2070 Geography (Science)

The Geography BSc offers a broad perspective on physical geography. In-depth studies include climatology, hydrology and ecosystems, with possible specialization in biogeochemistry, glaciology, landscape ecology, natural resources and urban climate.

Limited Enrolment – Enrolment in this program is limited to students who have completed GGR117Y and a Cumulative Grade Point of 2.7 (B-) in the 2nd and 3rd year.

Within an Honours degree, **10.0 credits** are required.

First Year: 1.0 credit: GGR111H5 & GGR112H5

Second Year: 3.5 credits:

1.0 credit from GGR214H5, 217H5, 227H5

1.0 credit from GGR276H5, 277H5, 278H5

0.5 credit from GGR202H5, 207H5

1.0 credit from any other 200-level GGR courses

Third Year: 4.0 credits:

3.0 credits from the following:

GGR305H5, 307H5, 309H5, 311H5, 312H5, 315H5, 316H5, 317H5, 338H5, 377H5, 378H5, 379H5

1.0 credit from the following:

GGR321H5, 337H5, 372H5, 375H5, 380H5

Fourth Year: 1.5 credit :

1.0 credit from GGR417Y5

0.5 credit from any *GGR Science* designated 400-level courses as described in the Geography Course Descriptions section of this Calendar.

Major Program ERMAJ1666 Geography (Arts)

7.0 credits are required.

First Year: 1.0 credit: GGR111H5 and GGR112H5

Second Year: 3.0 credits as follows:

1.5 credits from GGR202H5, 207H5, 208H5, 209H5, 252H5, 287H5, 288H5

1.0 credit from GGR276H5, 277H5, 278H5

0.5 credit from GGR214H5, 217H5, 227H5

Third Year: 2.5 credits from the following:

GGR313H5, 325H5, 329H5, 333H5, 345H5, 348H5, 349H5, 353H5, 354H5, 361H5, 365H5, 367H5, 369H5, 370H5, 378H5, 380H5, 381H5, 389H5

Fourth Year: 0.5 credit from any *GGR Social Science* designated 400-level courses as described in the Geography Course Descriptions section of this calendar.

Major Program ERMAJ2070 Geography (Science)

7.0 credits are required.

First Year: 1.0 credits: GGR111H5 & GGR112H5

Second Year: 3.0 credits:

1.0 credit from GGR214H5, 217H5, 227H5

1.0 credit from GGR276H5, 277H5, 278H5

0.5 credit from GGR202H5, 207H5

0.5 credit from any other 200-level GGR courses

Third Year: 2.5 credits:

2.0 credits from the following:

GGR305H5, 307H5, 309H5, 311H5, 312H5, 315H5, 316H5, 317H5, 338H5, 377H5, 378H5, 379H5

0.5 credit from the following:

GGR321H5, 337H5, 372H5, 375H5, 380H5

Fourth Year: 0.5 credit from any *GGR Science* designated 400-level courses as described in the Geography Course Descriptions section of this calendar.

Minor Program ERMIN1666 Geography (Arts)

4.0 credits are required.

4.0 credits are required: 4.0 credits from the list of GGR Social Science courses, as described in the Geography Course Descriptions section of this calendar, including at least 1.0 credit at the 300/400 level

Minor Program ERMIN2070 Geography (Science)

4.0 credits are required.

First Year: 1.0 credit :GGR111H5 & GGR112H5

Second Year: 1.0 credit from GGR214H5, 217H5, 227H5

2.0 additional credits from the list of *GGR Science*

courses as described in the Geography Course Descriptions section of this calendar, including at least 1.0 credit at the 300/400 level.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time. Students may take no more than 2.0 credits combined in ROP, individual project courses, or thesis courses at the 300/400 level for credit toward the Geography program. Students must receive permission from Faculty Program Advisor and Academic Counsellor prior to taking GGR courses on other U of T campuses toward their program requirement. No more than 1.0 non-U of T Mississauga credit is accepted in the Geography Specialist program; and no more than 0.5 non-U of T Mississauga credit in the Geography and GIS Major programs.

List of Courses**GGR111H5 Human Geography (SSc)**

The course introduces human geography through an exploration of the evolution of geography to modern traditions, the measurement of geographic space and phenomena and the spatial interactions of people with the environment. Students gain an understanding of geographic principles through lectures and course material and develop fieldwork skills through practical sessions and field exercises. [24L, 12P]

Exclusion: GGR117Y

GGR112H5 Physical Geography (SCI)

This physical geography course introduces earth systems processes occurring in and between the atmosphere, lithosphere, hydrosphere and the biosphere. It addresses human interaction and interference with the natural environment and compares natural and anthropogenic environmental changes. Key tools used to understand earth systems and the natural environment including hands-on empirical approaches, systems models, remote sensing, and geographical information systems are addressed in both the lectures and the practical sessions. [24L, 12P]

Exclusion: GGR117Y5

GGR202H5 Where in Canada? (SSc)

Canada continues to be one of the world's great storehouses of basic resources: fish, wood, minerals, grains, livestock, water, recreational space and more. Human impact, to the point of extinction, has varied across the country. The geography of regional change in Canada, over several centuries, is basic to this social science course. [24L, 12T]

Exclusion: GGR228Y5

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits

GGR207H5 Cities, Urbanization and Development (SSc)

This course will introduce students to urban social processes, urban form and urban history. A particular emphasis will be placed on global urbanization, internal spatial and social structure of cities, as well as past and contemporary urban problems. [24L]

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits

GGR208H5 Places and People (SSc)

This course examines the link between people and places from a global perspective. The course will cover topics related to population patterns and processes, geographic theories related to population and sustainability, as well as the tools used by geographers to study population size, composition and migration. [24L]

Exclusion: GGR255H5

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits

GGR209H5 People, Money and Places (SSc)

This course uses economic principles and geographical analysis in order to understand the global economic map of the early 21st century. Topics covered include transnational corporations, state policies, new technologies, trade agreements and inequalities. [24L]

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits

GGR214H5 Global Weather and Climate (SCI)

The climates of the globe are created from the kinds of weather systems which usually occur. This course surveys the weather systems of the globe and the geography which helps to transform them into regional climates. It uses just enough physics to show you how it all works and how we can make informed assessments about ideas on climatic change. [24L, 12P]

Exclusion: GGR217Y5

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits

GGR217H5 Fundamentals of Hydrology (SCI)

Hydrology is the study of the quantity, quality, storage, and transfer of the world's freshwater. The presence of water on and in the continents and atmosphere sustains the terrestrial biosphere, including human life. This course focuses on the central concepts of hydrology by taking a systems approach to the movement and storage of water on and in a watershed. Based on the framework of the water cycle, the course emphasizes the physical processes that control the stores and transfers of water and energy in the Earth system. This course serves as a gateway to the more advanced treatment of hydrology in upper levels, as well as providing a solid understanding of the fundamentals of the science of water for students in other streams of physical geography, environmental science, earth science, and biology. [24L, 12P]

Exclusion: GGR217Y5

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits

GGR227H5 Ecosystems and Environmental Change (SCI)

This course introduces the rapidly advancing fields of ecosystem science through the exploration of how ecosystems respond to climate change, pollution, and intensive natural resource management. The impacts from anthropogenic stressors on ecosystem functioning are often complex, with interactions occurring among plants, microorganisms, and physical and chemical environments. Empirical and modelling approaches are explored as they allow us to understand and predict ecosystem functioning and the linkages and feedbacks with changing environments. Lecture topics and case studies focus primarily on important representative Canadian ecosystems that also play vital roles in the resource sector including forests, agricultural land, wetlands and aquatic ecosystems. [36L]

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits/P.I.

GGR234H5 Environmental and Resource Management (SSc)

Course code has been changed to ENV201H5.

GGR252H5 Marketing Geography (SSc)

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. [24L]

GGR276H5 Spatial Data Analysis and Mapping (SCI)

Introduction to the study of geographical phenomena using descriptive and inferential statistics. Fundamentals of geographic data and statistical problem solving using non-spatial and spatial descriptive statistics. Decision making using evidence gathered from inferential statistical analysis. Graphical summary, geographic visualization and mapping of analytical results. Application of state of the art software for statistical analysis. Provides background for future studies in geographic information systems and advanced statistical analysis. The course strikes a balance between developing an understanding of core non-spatial and spatial statistical concepts, while demonstrating technical proficiency in the application of software to the study of geographical questions. [24L, 12P]

Prerequisite: 1.0 FCE from GGR117Y or ENV100Y or 4.0 Credits

GGR277H5 Social Research Methods (SSc)

This course introduces students to the key approaches that social scientists use to answer important questions and solve complex problems relating to the social world. It addresses the philosophies, theories and methods associated with social research. Specific methods and issues that will be covered include; archival research, surveys, interviews, focus groups, ethics, as well as qualitative and quantitative data analysis and interpretation. Throughout the course students will work through the process of designing their own independent research proposals and will gain experience with basic survey and interview data analysis and interpretation. [24L, 12P]

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits

GGR278H5 Geographical Information Systems (SCI)

Introduction to models of representation and management of geographical data for scientific analysis. Basic quantitative methods and techniques for geographic data analysis, including collection, manipulation, description and interpretation. Practical exercises using GIS and statistical software packages with examples drawn from both physical and human geography. [24L, 12P]

Exclusion: GGR261H5

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits

GGR287H5 Food and Globalization (SSc)

A broad overview of the historical development of the global food economy and a survey of recent trends and controversies. Topics discussed range from basic food staples, food markets and trade liberalization to food security, environmental sustainability and alternative agricultural systems. [24L]

Prerequisite: GGR117Y5/ ENV100Y5/ 4.0 credits

GGR288H5 World Fresh Water Resources (SSc)

World geography of freshwater resources. Ethics and international principles of human water rights. Uses and abuses of accessible freshwater stocks and wastewater. Case studies of ground water, lakes and rivers (focus: Great Lakes; international watersheds), dams and diversions, water reclamation and reuse. Issues of water quality and quantity for health, and for food production. [24L]

Exclusion: cannot take GGR288H5 + GGR348H5 simultaneously

Prerequisite: GGR112H5/ ENV100Y5/ 4.0 credits

GGR305H5 Biogeography (SCI)

Analysis of past and present plant and animal distributions, and of the environmental and biological constraints involved. The course emphasizes the impact of continental drift, Quaternary climatic changes and human interference on contemporary patterns. [24L]

GGR307H5 Environmental Soil Science (SCI)

Soils play critical roles in sustaining life. They support plants and agriculture, serve as home to a plethora of organisms, recycle organic matter and nutrients, provide materials for construction, art, and medicine, preserve paleoecological and archaeological records, regulate global climate through the exchange of greenhouse gasses, and filter contaminants in water and waste. This course introduces fundamentals of soil formation, physical, chemical and biological characteristics, and classification schemes. It explores the role of, and how humans interact with, soils in Canadian forests, wetlands, agricultural systems, and industrial and urban settings. Aspects of carbon, nutrient, and pollutant biogeochemistry in soils are explored in detail. There is one optional day field trip. [24L, 36P]

Prerequisite: 8.0 credits complete in GGR, ENV, ANT, BIO and any science course with a laboratory component or P.I.

GGR309H5 Wetland Ecosystems (SCI)

Wetlands are an integral part of our biosphere, playing fundamental roles in the modification of water quality, biodiversity, and the global carbon cycle. This course focuses on the classification, hydrology, biogeochemistry, and ecology of wetland systems. The latter part of the course builds on this physical foundation by introducing management issues associated with wetland preservation, restoration and creation. [24L, 36P]

Prerequisite: 8.0 credits in GGR, ENV or any SCI programs.

GGR311H5 Landscape Biogeography (SCI)

A geographical, multi-scale perspective on the relationships between land cover change and the distribution, movement, dispersal, abundance, and diversity of avian and mammalian species. Landscape measures such as dominance, contagion, shape, patch/edge measures, connectivity will be considered in relation to land use/land cover change and distribution of selected species. The juxtaposition of cover types will be analyzed and changes in landscapes related to selected species. Various research methods are discussed and work is done using geographic information systems to analyze landscapes in conjunction with bird and mammal count data. [24L, 12P]

Exclusion: GGR310H5

Prerequisite: GGR305H5/ BIO205H5/P.I.

GGR312H5 Landscape Ecology of Animal Populations (SCI)

A companion course to GGR311H5, further investigating the principles governing the distribution and success of animal populations in landscapes. Topics include microhabitat selection, home range use, scale-dependent foraging theory, dispersal, genetic structure of populations, cyclic populations, metapopulation dynamics, colonization and extinction, and implications for conservation biology. [24L, 18T]

Exclusion: JBG312H5

Prerequisite: BIO205H5 and P.I.

Recommended Preparation: GGR311H5

GGR313H5 Sex and the City (SSc)

In this course students will be introduced to approaches in social geography that examine the links between gender and urban environments. Specific topics and issues to be covered include, for example, poverty, work, sex trade, human trafficking and safety. Topics will be explored across multiple scales including bodies, home, neighbourhood and community. [24L, 12T]

Prerequisite: 8.0 credits

Recommended Preparation: GGR277H5/ 278H5

This course is crosslisted with Women's/Gender Studies

GGR315H5 Physical Hydrology (SCI)

This course centres on the advanced treatment of the physical principles involved in the occurrence and movement of water on and beneath the Earth's surface. Watershed-scale hydrologic systems are investigated, along with basic principles of fluid mechanics. Open channel hydraulics, soil water, and groundwater processes are investigated. The importance of understanding water movement in the environment by exploring the relationship of hydrology to other environmental sciences is stressed. [24L, 36P]

Prerequisite: GGR214H5/ 217H5

GGR316H5 Landforms (SCI)

Systems approach to hillslope geomorphology studies; processes of erosion and deposition; mass wasting; slope forms of humid and arid regions; process-response models; applied aspects. [24L, 12P]

Prerequisite: GGR214H5/ 217H5, 227H5

GGR317H5 Glaciers (SCI)

The classical tradition in glaciology is to relate the physics of glacier flow to the annual gains and losses of snow and ice over the glacier area. In this course, we explore an evolving modern tradition, in which the emphasis is to relate changing snow and ice conditions to glacier hydrology, its contribution to local water supply and how all this relates to climate change. Research skills are developed in assignments, one of which includes the option to visit a glacier research site. [24L, 12P]

Prerequisite: GGR214H5/ 217H5/ 227H5/P.I.

GGR321H5 Geographic Information Processing (SCI)

Problem solving using geographic information systems (GIS). Essential distributed computing aspects of GIS are presented. Among topics covered are the use of logic in spatial analysis, line-of-sight analysis, route selection, site selection, and landscape analysis. Hands-on assignments are emphasized. [12L, 24P]

Prerequisite: GGR278H5

Recommended Preparation: GGR311H5

GGR325H5 Economic Geography (SSoc)

Modern theoretical spatial economics. Land use theory, central place theory, locational analysis, and transport processes. Planning and policy questions. [24L]

Prerequisite: Any 8.0 credits

GGR329H5 Environment and the Roots of Globalization (SSoc)

A critical discussion of how geographical factors, such as landscape, flora and fauna, might help explain why history unfolded differently on different continents. How geography might have impacted the development of agriculture, complex technologies, writing, centralized government and how, in the process, it has shaped the current world economic map. [24L]

Exclusion: GGR489H5 in 2005-2006

Prerequisite: Any 8.0 credits

GGR333H5 Energy and Society (SSoc)

A broad survey of humankind's ability to control and manipulate energy. Forms of energy and use; energy eras and transitions; past and present economic and policy debates. Understanding of technical terms, physical principles, creation of resources and trade-offs will be emphasized as a basis for discussions about current energy options. [24L]

Prerequisite: Any 8.0 credits

Recommended Preparation: GGR117Y5/ ENV100Y5

GGR337H5 Environmental Remote Sensing (SCI)

This introductory course emphasizes mastering fundamental remote sensing concepts and utilizing remotely sensed data for monitoring land resources and environmental change. Topics include surface-energy interactions, sensor systems, image interpretation, and applications for examining soil, vegetation and water resources. Upon completion of this course, students should have the necessary knowledge and skills to pursue more advanced work in digital image processing and remote sensing applications. [24L, 12P]

Prerequisite: 0.5 credit from (GGR214H5/ 217H5/ 227H5), 0.5 credit from (GGR276H5/ 278H5)

GGR338H5 Environmental Modeling (SCI)

An application of environmental models to contemporary problems of decision-making. The course demonstrates the relevance of techniques of data management (statistics, computer systems) to issues facing Canada and the global community. [24L, 12P]

Exclusion: GGR335H5

Prerequisite: Any 8.0 credits, including GGR276H5; a course in Statistics recommended.

GGR345H5 Environmental Issues in the Developing World (SSoc)

The Earth is one, but the world is not. We all depend on one biosphere for sustaining our lives. Yet each community, each country, strives for survival and prosperity with little regard for its impact on others. These are the opening words from the report of the UN World Commission on Environment and Development, which first popularized the concept of sustainable development. In this course we examine 'environment' and 'development' as inseparable challenges. We consider global, regional, and local environmental problems from the perspectives of developing nations, and investigate the economic, social, and political roots of these problems. [24L, 12T]

Prerequisite: Any 8.0 credits

GGR348H5 The Great Lakes - A Sustainable Natural Resource? (SSc)

This course will provide students with a history of the biophysical evolution of the Great Lakes Basin, its history of human population growth and industrial and urban development and the consequences of that development on the ecological health of the Basin. There will be a discussion of basic lake ecology, with emphasis on the unique characteristics of the Great Lakes. The course will examine the various stresses past, present and future (climate change, new chemicals) that have or could impact upon the Basin. The complex governance issues in the Basin (two countries, eight states, one province, hundreds of municipalities, First Nations) will be considered, along with the management programs put in place to deal with the effects of human activity on the ecosystem. The sustainability of the Great Lakes basin will also be discussed in the context of present and future stresses. [24L]

Prerequisite: ENV201H5 or GGR288H5 or GGR217H5

GGR349H5 Cities in Transition (SSc)

The internal geography of contemporary cities is in the midst of a series of transitions related to new settlement patterns, immigration, workplace location, transportation and communication technologies, globalization, and shifts in urban governance. This course will examine these transitions and their effects on the social and political geography of the city. Themes include gentrification, spatial mismatch, concentrated poverty, political fragmentation, and the emergence of new urban forms and of the post-modern city. [24L, 12P]

Prerequisite: GGR117Y/ENV100Y/GGR207H5/GGR361H5 or any 4.0 GGR Social Science credits

GGR353H5 Geography of Health and Health Care (SSc)

This course provides an introduction to the geography of health and health care, emphasizing the links between health and place, and covers six broad thematic areas including the development of health geography as a sub-discipline, data collection/analysis, medical, social, and cultural models of health/illness, health systems delivery, and inequalities. [24L, 24T]

Exclusion: GGR450H1, GGR451H1

Prerequisite: Any 8.0 credits

Recommended Preparation: GGR117Y5, GGR277H5

GGR354H5 The Young and the Restless: Geographies of Youth Development (SSc)

Youth is a critical period between childhood and adulthood. Events and experiences that occur during adolescence can have lifelong and often cumulative impacts on health and development including completing (or leaving) school, joining the workforce, engaging in delinquent or risky behaviours, sexual encounters, bearing children, volunteerism and civic involvement. This course challenges students to think about youth development through a geographical lens that examines links between youth and their local social and physical environments and broader socio-economic conditions. This course features an experiential learning component where students will engage in research projects on local issues affecting youth. [24L, 12T]

Exclusion: GGR489H5S offered in 2010 winter session

Prerequisite: Completion of 8.0 credits in GGR or other related disciplines or PI.

GGR361H5 City Planning and Development (SSc)

This course outlines important concepts and historical milestones involved in the planning and development of cities. It involves examination of urban sprawl, urban intensification efforts, and of the evolution of urban form and the interplay of private and public forces that shape the built-form of Canadian cities. [24L, 12P].

Prerequisite: At least 8.0 credits

GGR365H5 Trade and Globalization (SSc)

This course uses economic and geographical principles to help students understand the advent of the current period of globalization. In this context, globalization refers to international trade liberalization which results in increased contacts across borders, migration, trade, and investment. Topics covered will include the history of globalization, the environment, sweatshops, development and inequalities. By the end of the course, students should have gained a deeper understanding of current controversies surrounding international trade and globalization. [24L]

GGR367H5 India and South Asia (SSc)

A regional survey of the physical, social and economic landscape of India and neighbouring states of South Asia, with special emphasis on current developments. Roots of ancient civilization, cultural divisions and the drive for national unity, colonial and post-colonial politics, international relations. Natural resources, population pressure, economic development, social change. [24L]

Prerequisite: Any 8.0 credits

Recommended Preparation: GGR207H5/ 208H5/ 209H5/ 228Y5/ 234H5

GGR369H5 The Changing Geographies of Latin America (SSc)

A continental survey course that covers the contemporary social, cultural, environmental and economic landscape of Latin and Central America. Some of the themes addressed include the impact of trade and globalization on Latin American economies, the role of indigenous people in Latin American culture, urban development patterns and trends and emerging crises posed by the rapidly increasing environmental challenges facing Latin American nations. [24L]

Prerequisite: Prerequisite: Any 8.0 credits

Recommended Preparation: GGR207H5/ 208H5/ 209H5/ 234H5

GGR370H5 Planes, Trains, and Automobiles: The Geography of Transportation (SSc)

Transportation is an integral aspect of our daily lives and plays a key role in shaping the economy and the environment. Through this course, students will explore the geography of transportation. Topics will include, mobility and accessibility, transportation networks and flows, Geographic Information Systems in Transport (GIS-T), planning and policy, environmental and human health impacts, and other current issues. [24L, 6P]

Exclusion: GGR324H1

Prerequisite: one of GGR276H5, GGR277H5

Recommended Preparation: This course includes a module focused on the use of Geographical Information Systems (GIS) in the study and management of transportation systems. As a result, students are strongly encouraged to take GGR278H5 Geographical Information Systems.

GGR372H5 Geographical Analysis of Land Resources (SCI)

This course focuses on the nature of land resources information and its analysis. Emphasis is on use of geographic information systems to model and analyze a variety of land resources. Topics such as terrain analysis and interpolation will be covered. [24L, 12P]

Prerequisite: GGR276/GGR278 ,or equivalent with Permission of Instructor

GGR375H5 Physical Environment of the City (SCI)

The physical structure of the city results in a distinctive local climate that is linked to air and water quality, as well as to energy use. A geographical information system is used to assemble physical information from which to model the urban climatic environment, taking the example of Mississauga. Particular emphasis is placed upon the role of field measurements and satellite data as sources of geographical information. [24L, 12P]

Prerequisite: 0.5 credit from GGR214H5/ 217H5/ 227H5
0.5 credit from GGR276H5/ 278H5

GGR377H5 Global Climate Change (SCI)

The main focus of this course is upon the climatic aspects of environmental change which affect Great Lakes water levels, disappearing glaciers, sea level rise, desertification and dwindling water resources in an ever more populous world. These changes to the earth surface environment are explored in the context of themes and issues which were introduced in first year, with a view to answering an important question: whether policy action on climate change must wait for more science, or whether action is merely delayed by failure to appreciate science. [24L]

Exclusion: ENV377H5

Prerequisite: GGR117Y5/ ENV100Y5/ 8.0 credits

GGR378H5 Natural Hazards: Risks and Vulnerability (SSc,SCI)

Earth is a dangerous place, and risk is an inherent feature of life on this planet. Some of the events and processes that we call "hazardous," such as floods, cyclones, coastal erosion, locust infestations, and forest fires, are natural environmental processes. We define them as hazards only when they pose a threat to human interests. In this course, we will examine both natural and technological hazards - their causes, their potential impacts on people, and their management and mitigation. [24L]

Prerequisite: Any 8.0 credits

GGR379H5 Field Methods in Physical Geography (SCI)

This course is structured around one major field trip that will occur before fall-term courses begin, preparatory work, and approximately bi-weekly course meetings during the regular academic term to complete complementary work in computer and/or wet laboratories. Field projects will involve analyses and mapping of vegetation, soils, aquatic systems, hydrology, and/or geomorphology, and subsequent data analysis. Students will be required to write one major research paper and present projects to the class. Each student is required to pay the costs of his/her transportation and accommodation. Students must register on ROSI, on a first-come first-serve and non-refundable deposit basis. The deposit must be received by the Department within one week from the first day of enrollment or the student will be dropped automatically from the course. Students should contact the Department to find out more details about the specific fieldtrip plans.

Prerequisite: Any 3.0 courses drawn from one or more of the following : Physical Geography, Earth Sciences and Biology or PI.

GGR380H5 Communicating with Maps (SSc)

Cartographic positivism. Myth and meaning in maps. Cognitive cartographic theory, cartographic ethics and map use and misuse in the mass media. The political and social discourse in maps is diffused through cartographic criticism, which includes the application of graphic logic and design principles, and through an understanding of external and internal power relations in maps. [24L, 12P]

Prerequisite: Any 5.0 credits from Geography or CCIT

GGR381H5 Maps and Empire in the New World, 1500-1800 (SSc)

This course focuses on the use of maps in European expansion across the Atlantic in the early modern era. It examines connections between cartography, political power and empire across four areas: the formation of the European nation state, the tentative beginnings of European transatlantic imperial expansion, the settling of boundary disputes in the New World, and the conflicts and interactions between European and Amerindians that occurred because of and through mapmaking practices. (24L)

Exclusion: GGR489H5F offered in 20109

Prerequisite: 8.0 credits

GGR389H5 Field Studies in Human Geography (SSc)

This course will provide students with a first-hand exposure to the social, urban, historical and cultural geography of a North American city. During a 5-7 day stay in a city, students will apply basic field methods, such as observation and field note taking, to gain an in-depth understanding of the landscape and build environment. Students will participate in collecting primary observational data as well as gathering information gleaned from guided tours, lectures and group discussion. *Prerequisite:* 3rd-year standing in GGR (Arts) Specialist Program or ENV Specialist Management or permission of the Instructor, plus application and interview. Admission to course will be through application due by March 15. The student's application must be submitted to Sabrina Ferrari and must include a current transcript, a current curriculum vita, and a letter of application explaining why their qualifications and interest make them suitable candidates for this field course opportunity. Applicants who meet minimum criteria will be selected for an interview. Acceptance will be based on a combination of GPA, experience, qualifications and interview performance. There is a nonrefundable fee associated with this course of \$X, beyond summer tuition for the course, for which the accepted students are responsible.

Prerequisite: At least 8.0 credits, of which 3.0 or more should be in GGR courses/ P.I.

GGR393H5 Methods of Environmental Assessment (SSc)

Course number has changed to ENV393H5.

GGR399Y5 Research Opportunity Program (SSc,SCI)

This course provides senior undergraduate students who have developed knowledge of geography and have studied its research methods the chance to work as part of a research team, under the direction of a professor, in exchange for course credit. Students have the opportunity to be involved in original research, enhance their research skills and participate in the excitement and discovery of facilitating new knowledge. Project descriptions for participating faculty members for the following summer and fall/winter semesters are posted on the ROP website (www.utm.utoronto.ca/428.0.html) in mid-February and students are invited to apply at that time. [24P]

Prerequisite: 1.0 credit from GGR276H5, 277H5, 278H5

Recommended Preparation: Minimum of 8.0 credits

GGR406H5 Advanced Biogeochemistry (SCI)

Biogeochemistry explores the intersection of biological, chemical, and geological processes that shape the environment. In an era of unprecedented human-induced environmental and climate change, research in this field is advancing rapidly. This seminar course explores the processes underlying biogeochemical cycles and examines how humans alter these cycles. Topics include microbial and plant-mediated carbon and nutrient cycling in terrestrial and aquatic ecosystems, controls on greenhouse gas fluxes and climate change mitigation strategies in soils, the role of biological diversity in biogeochemical processes, and exploration into how new molecular and isotope techniques are improving the study of biogeochemical processes. [36S]

Prerequisite: 4th year standing in GGR, ENV, or P.I.

GGR407H5 Ecohydrology (SCI)

Ecohydrology explores the feedbacks between biological, hydrological and biogeochemical processes that help shape ecosystem form and function. These feedbacks are central to the regulation of the global climate and water resources. With pronounced and rapid human modification to the landscape and climate system this field of study is increasingly relevant to formulate mitigation strategies. This seminar and research course explores the feedback processes most crucial to climate change and water resources. Topics include ecosystem control on the water balance, the role of peatlands in ameliorating climate change, hydrologic controls on species diversity, and the role of the watershed in mitigating human pollutants. Students are expected to conduct independent and collaborative study. [24S, 36P]

Prerequisite: GGR315H5 or GGR217H5 and one of GGR305H5/ 307H5/ 309H5/BIO311H5/ BIO330H5

GGR410Y5 Human Geography Internship (SSc)

Through a part-time, unpaid work placement, students apply the knowledge and expertise gained through previous course work in geography. Placements may be made in a range of settings. For example, placements may include municipal government, regional government, neighbourhood organizations and centres, corporations as well as with non-governmental organizations. Admission to course will be through application due by March 1. The student's application must include a current transcript, a current curriculum vita, and a letter of application explaining why their qualifications and interest make them suitable candidates for an internship opportunity. Applicants who meet minimum criteria will be selected for an interview. Acceptance will be based on a combination of GPA, experience, qualifications and interview performance.
Prerequisite: Fourth-year standing, PI

GGR417Y5 Honours Thesis (SSc,SCI)

This course is designed to give students experience in the design and execution of an independent senior thesis under the supervision of a faculty member. **In order to register in the course, students must complete and submit an application form to the Department of Geography by March 31 of the preceding year.** [24P]
Prerequisite: Completion of 3rd-year requirements for the Specialist program in GGR Arts and Science.

GGR418H5 Global Political Geography (SSc)

Political geography is concerned with the spatial expression of political entities and events. It involves analysis at a variety of scales ranging from the local to the global. The control and manipulation of territory and the imposition of political boundaries are central to this analysis. The course adopts an historical approach to explore nation building, the State, colonisation and decolonisation, and builds toward a discussion of current geopolitical theory, concepts of hegemony and world order. [24L]

Exclusion: GGR439H1

Prerequisite: Completion of 3rd year requirements for GGR Specialist or Major Arts programs including any two of GGR208H5, GGR361H5 or GGR365H5.

GGR419H5 Geography of Food: Geographical Patterns and Environmental Impacts (SSc)

This seminar course examines the geographic patterns and environmental impacts of our food production and distribution system. Topics include the sustainability of the current system, as well as alternatives to the norm. The geographic focus is Southern Ontario. Topics such as food miles, urban agriculture, and small scale production systems are also evaluated. [24S] (This is a cross-listing course as ENV420H5)

Exclusion: ENV420H5; GGR489H5F offered in 2009-2010

Prerequisite: Completion of 3rd-year requirements for any Specialist or Major program in ENV or GGR or P.I.

Recommended Preparation: GGR287H5

GGR463H5 Geographic Information Analysis and Processing (SCI)

Emphasis will be on both the analysis and processing of geographic information using open source software. Topics from geographic information science will be presented. Extensive hands-on experience with spatially explicit simulation models, fuzzy techniques, statistical analysis, and programming tools. [12L/24P]

Prerequisite: GGR321H5

GGR464H5 Advanced Remote Sensing (SCI)

This course builds on the fundamental remote sensing concepts, techniques, and applications introduced in GGR 337, and aims to provide an advanced study of digital image processing and remote sensing applications. Topics include image pre-processing and calibration, spectral data transformation, image enhancement, pattern recognition, artificial intelligence, hyperspectral image analysis, and change detection. Students will apply these advanced remote sensing techniques in practical lab exercises and a term project. [12L, 24P]

Prerequisite: GGR337 or PI

GGR479H5 Special Topics in Physical Geography (SCI)

An advanced seminar dealing with topics in physical geography, to be selected according to staff and student interests. [24P]

Prerequisite: P.I.

GGR488H5 Geostatistics (SCI)

Accuracy of spatial databases. Advanced error models of geographic data. Uncertainty. Spatial variability, sampling and estimation. Map comparison, interpolation, simulation. Applications in environmental and social sciences. [24L, 12P]

Prerequisite: 0.5 credit STA course at 200+ level; 1.0 credit 300+ level courses in GGR

GGR489H5 Special Topics in Human Geography (SSc)

An advanced seminar dealing with topics in human geography, to be selected according to staff and student interests. [24P]

Prerequisite: P.I.

GGR493H5 Special Topics in Environmental Management (SSc)

An exploration of theories, research techniques and policy options relevant to the understanding and solution of environmental issues such as sustainable development, risk management and environmental assessment. [24L]

Prerequisite: 5.0 courses from the Environmental Management Major

GGR494H5 Special Topics in GIS (SCI)

(Formerly GGR394H5) Studies of selected topics in Geographic Information Systems not covered in regular courses.

Exclusion: GGR394H5

Prerequisite: P.I.

Geology (HBSc)

Chair

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Faculty Advisor

Professor Daniel Schulze
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This program offers a traditional education in Geology, with emphasis on the field and laboratory study of the Earth, and is recommended for students wishing to pursue careers in the resource industries or graduate studies in Geology.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

AST Astronomy (page 68)
BIO Biology (page 76)
CHM Chemistry (page 92)
ENV Environment (page 166)
ERS Earth Science (page 139)
GGR Geography (page 196)
JCP Chemistry (page 92)
MAT Mathematics (page 256)
PHY Physics (page 270)
STA Statistics (page 306)

Specialist Program ERSPE0509 Geology (Science)

Within an Honours degree, 14.0 credits are required.

Limited Enrolment – Enrolment in this program is based on completion of 4.0 credits including ENV100Y5 / (ERS103H5, 120H5) (minimum grade of 60%).

First Year: CHM140Y5/ (110H5,120H5); ENV100Y5/ (ERS103H5, 120H5); MAT134Y5/ 135Y5/ 137Y5; PHY135Y5/ (136H5,137H5)

Second Year: ERS201H5, 202H5, 203H5; 0.5 credit from GGR217H5, 214H5; PHY237H5; AST252H5; BIO356H5; GLG217H1; 1.0 credit from CHM211H5, 221H5/ JCP221H5, 231H5; 1.0 credit from MAT212H5, 223H5; STA257H5, 261H5

Third Year: ERS325H5; GLG318H1, 345H1, 351H1, 360H1; ENV315H1

Fourth Year: 1. GLG445H1
2. 2.5 credits from GLG(G) and ERS 400 level courses.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

Health Sciences Communication

The Health Sciences Communication (Science) program (ERMAJ1095 Major) is no longer offered as of 2010-11. Students already in this program may continue to follow it.

History (HBA)

Professors Emeriti

R.E. Johnson, B.A., Ph.D.
D.P. Morton, M.A., Ph.D.
D.L. Raby, B.A., Ph.D.

Professors

S. Aster, B.A., M.A., Ph.D., FRHisS.
M. Cowan, B.A., B.Ed., M.A., Ph.D.
Y. Eyal, A.B., A.M., Ph.D.
J. Hanssen, D. Phil.
M. Kasturi, B.A., M.A., M. Phil., Ph.D.
H.K. Kwee, B.A., M.A., Ph.D.
T. Lam, B.Sc., M.A., Ph.D.
L.S. MacDowell, B.A., M.Sc., Ph.D.
A.C. Murray, B.A., Ph.D.
J. Noel, B.A., M.A., Ph.D.
M. Tavakoli-Targhi, M.A., Ph.D.
D. Williams, B.A., M.A., Ph.D.
R. Wittman, B.A., M.A., Ph.D.

Chair

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The U of T Mississauga History program is designed to give its students a wide-ranging perspective on Canada and the world through reflection on the past, both recent and distant. The department provides a diverse and global curriculum, with faculty offering a range of specialized expertise on Africa, the Americas, Asia and Europe. The curriculum is also characterized by sets of thematic emphases that include imperialism, colonialism and nationalism, culture and society, religion, the environment, source criticism, labour, gender, ethnicity, war and politics.

History is an ancient discipline, but its modern practitioners are often by necessity interdisciplinary and are frequently positioned at the crossroads of the humanities and social sciences. U of T Mississauga's historians actively participate in a variety of interdisciplinary programs, including Canadian Studies, Diaspora and Transnational Studies, European Studies, Industrial Relations, Medieval Studies, Near and Middle Eastern Civilizations, and the Study of Women and Gender.

A concentration in history can provide students with the critical-thinking and communication skills required to excel in a number of professions. The student of history is in a position to pursue a diversity of career paths from academic research and teaching to media, law, journalism and government service.

A fuller description of the History program is available online at www.utm.utoronto.ca/historicalstudies/. This website provides detailed information on course outlines, timetabling and program requirements. It also contains faculty profiles with research interests and publications.

100 and 200 entry-level courses provide intensive introductions to the history of areas and periods; these are typically conducted as a combination of lecture and tutorial; 300- and 400-level courses focus on more specialized or thematic topics. 400-level courses are offered as seminars, allowing students opportunities for collaborative discussion, independent research, and oral presentations.

The department encourages students to take advantage of the various study abroad opportunities available at UTM.

For more information, refer to the Department of Historical Studies website at

<http://www.utm.utoronto.ca/historicalstudies/>

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

HIS History (page 207)

Specialist Program ERSPE0652 History (Arts)

Within an Honours degree, 10.0 HIS credits are required meeting the following requirements:

Limited Enrolment – Limited Enrolment – Students applying to enroll at the end of first year (4.0 credits) must have a CGPA of at least 2.00 and a mark of at least 70% in each of 2.0 HIS credits. Students applying to enroll after second year (8.0 credits) must have a CGPA of at least 2.30 and a mark of at least 70% in each of 2.0 HIS credits.

First Year: 0.5 credit in HIS101H5. It is recommended that this course be taken in the first year.

Higher Years: A total of 9.5 credits, of which at least 4.0 credits must be 300-level courses, and at least 1.0 credit must be at the 400 level. As well, the following distribution requirements must be met:

At least 0.5 credit in each of three of the four following geographical areas of study:

1. Africa, Latin America, & the Caribbean
2. Asia and the Middle East
3. Canada & U.S.A.

4. Europe

At least 0.5 credit in each of three of the four following topical areas of study:

1. Ancient History and Culture
2. Medieval History
3. History of Religion
4. Gender History

Specialists are permitted to substitute non-HIS courses for up to 2.0 HIS credits. All Classical Civilization and History of Religions courses in the Department of Historical Studies are suitable substitutions. Other substitutions will be considered on a case-by-case basis after the submission of the relevant syllabus.

For current lists of courses falling under the various geographical and topical areas of study, see the departmental handbook.

Major Program ERMAJ0652 History (Arts)

7.0 HIS credits are required meeting the following requirements:

First Year: 0.5 credit in HIS101H5. It is recommended that this course be taken in the first year.

Higher Years: At least 0.5 200/300 level credit in three of the four following geographical areas of study:

1. Africa, Latin America, & the Caribbean
2. Asia and the Middle East
3. Canada & U.S.A.
4. Europe

0.5 credit in three of the four following topical areas of study:

1. Ancient History and Culture
2. Medieval History
3. History of Religion
4. Gender History

3.0 300 level credits

0.5 400 level credit

Majors are permitted to substitute non-HIS courses for up to 2.0 HIS credits. All Classical Civilization and History of Religions courses in the Department of Historical Studies are suitable substitutions. Other substitutions will be considered on a case-by-case basis after the submission of the relevant syllabus.

For current lists of the courses falling under the various geographical and topical areas of study, see the departmental handbook.

Minor Program ERMIN0652 History (Arts)

4.0 HIS credits are required meeting the following requirements:

First year: 0.5 credit in HIS101H5. It is recommended that this course be taken in the first year.

Higher years: At least 0.5 200/300 level credit in each of two of the four following geographical areas of study:

1. Africa, Latin America, & the Caribbean
2. Asia and the Middle East
3. Canada & U.S.A.
4. Europe

1.0 credit at the 300 level

Minors are permitted to substitute non-HIS courses for up to 1.0 HIS credits. All Classical Civilization and History of Religions courses in the Department of Historical Studies are suitable substitutions. Other substitutions will be considered on a case-by-case basis after the submission of the relevant syllabus.

For current lists of the courses falling under the various geographical and topical areas of study, see the departmental handbook.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

HIS101H5 Introduction to Historical Studies (HUM)

This writing-intensive course introduces Historical Studies through a variety of exercises that will allow students to read models of good writing and to practise the integration of successful strategies into their own work. After a basic overview of the disciplines of Classics, Diaspora and Transnational Studies History, History of Religions and Women and Gender Studies, students will try different tools and approaches for developing the skills useful at every stage of the creative process from pre-writing and preliminary research through to editing and undergraduate publication. Each year will focus on a particular historical event that will appear as a recurring theme in readings and assignments. [24L, 10T]

HIS201H5 Introduction to Middle Eastern History (HUM)

An introduction to the history of Islamic culture from its beginnings to modern times. [24L, 10T]

Exclusion: NMC201Y1, HIS201Y5

Prerequisite: HIS101H5

HIS203H5 The Making of the Atlantic World (1000-1800) (HUM)

An introduction to African, European, and American peoples around and across the Atlantic Ocean between 1000 and 1800. Themes include ideologies and practices of exploration, conquest, and colonization; perceptions and misunderstandings; forced and voluntary migration; effects of disease; resistance and revolt; and the "Atlantic World" as a field of study. [24L, 10T]

HIS204H5 History Of The Ottoman Empire, 1299-1923 (HUM)

This course provides an overview of the history of the Ottoman Empire, the longest lasting Muslim superpower and a major player in world history, from its inception in 1299 until its dissolution after World War I. Among current members of the United Nations, close to 40 member states were, for periods ranging from 50 to 600 years, integral parts of the Ottoman state. Present-day conflicts in political hot-spots, such as the Middle East, Bosnia, Kosovo, Cyprus and the Caucasus can only be understood through exploring their origin in the Ottoman past. At the same time in many cases the Ottoman Empire was an example of tolerance and accommodation of various ethnic and religious groups. [24L, 10T]

HIS220Y5 The Shape of Medieval Society (HUM)

Introductory survey of European history from the late Roman Empire to the fifteenth century. During this period a distinctly Western European civilization, of which we are the heirs, emerged and reached maturity. This course will outline the major developments that account for the shape of medieval civilization and its influence on the thinking and institutions of subsequent centuries. [48L, 20T]
Exclusion: HIS220Y1, 220H5, 221H5

HIS221H5 Themes in Medieval History (HUM)

This course is a brief survey of European history from the late Roman Empire to the fifteenth century emphasizing select themes that created the shape of medieval civilization and influenced developments in subsequent centuries. [24L]
Exclusion: May not be taken with or after HIS220Y5.

HIS222H5 Eastern Europe Since 1815 (HUM)

The course will provide a historical overview of the lands, peoples and states of Eastern Europe roughly encompassing the band of countries stretching from today's Poland to the Balkans from 1815 to the present. In addition to providing insight into the major historical events and developments, it will also raise and debate some of the following larger questions: does the name Eastern Europe mean more than a geographic concept, how were its experiences different or similar to those of the rest of Europe or other parts of the world, how did the histories of the various states and communities within the region resemble or differ, and how was the region significant for European and world history. [24L, 10T]

HIS230H5 Introduction to European History 1300-1815 (HUM)

European history from the late Middle Ages to the end of the Napoleonic Wars, emphasizing the major political, cultural, economic and social changes that created early modern Europe. [24L, 10T]

HIS236H5 Introduction to British History (HUM)

An introduction to some of the major themes of British history and civilization from the late seventeenth century. This includes - the emergence of industrial society, evangelical humanitarianism, parliamentary democracy, foreign and imperial issues such as the "Eastern Question", Victorianism, the "Irish Question", trade unionism, and war and society. [24L, 10T]
Exclusion: HIS236Y5/ 239H1

HIS241H5 Introduction to 19th-Century European History (HUM)

An introduction to the principal themes of western European history from the French Revolution to the 1890's. [24L, 10T]
Exclusion: HIS109Y5; EUR200Y5; FGI200Y5

HIS242H5 Introduction to Contemporary European History (HUM)

The evolution of European politics, culture, and society from 1890: the origins and consequences of the two world wars, the Bolshevik Revolution and Stalinism, Fascism and Nazism, the post-1945 reconstruction and division of Europe. This course is essentially a continuation of HIS241H5. [24L, 10T]
Exclusion: HIS109Y5; EUR200Y5; FGI200Y5

HIS250H5 Introduction to Russian History (HUM)

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. [24L, 10T]
Exclusion: HIS250Y5, 250Y1
Recommended Preparation: HIS101H5

HIS261H5 Introduction to Canadian History (HUM)

A survey of the political, social, and economic history of Canada, topically treated from the beginning to the present. This course is intended for students from disciplines outside of History looking for a broad-ranging approach to Canadian history. [24L]
Exclusion: May not be taken with or after HIS263Y5.

HIS263Y5 The History of Canada (HUM)

The department's most comprehensive survey of Canadian history, this course is designed to enhance the knowledge and skills of history students, those preparing to teach and others who want to benefit from a full lecture course and weekly tutorials. The first half of the course examines the French colony along the St. Lawrence River and its conquest by Great Britain. How did French culture survive? Political topics include Rebellions and Confederation. The course also explores the many peoples who arrived on our shores: stone-age hunters, French soldiers and brides, white and black Loyalists, and famine Irish; as well as later waves heading to eastern cities and western prairies. Twentieth century topics include modern social movements; the nation at war; popular culture; consumer society; and issues of Canadian identity. Lectures, debates and weekly tutorials help students master historical methods. [48L, 24T]
Exclusion: HIS262Y5/ 262H5/ 263H5
Recommended Preparation: HIS101H5

HIS271H5 Introduction to U.S. History (HUM)

A survey of the main developments and themes of U.S. history from the colonial period to the twentieth century. [24L, 10T]
Exclusion: May not be taken with or after HIS271Y1/ 272Y5.
Recommended Preparation: HIS101H5/ 102Y5

HIS272Y5 The History of the United States (HUM)

A comprehensive survey of American history, from the pre-contact period and colonial times to the present day. Weekly tutorials help students build analytical and writing skills as they survey four centuries of American development. [48L, 20T]
Exclusion: HIS271H5
Recommended Preparation: HIS101H5

HIS282H5 Introduction to South Asian History (HUM)

A critical introduction to the main themes and questions defining South Asian history from its beginnings to the present. Emphasis will be placed particularly on the period after the 1750s, which saw the emergence of British imperialism, anti-colonial struggles, and the formation of new nation states after 1947. [24L, 10T]
Exclusion: HIS282Y5, 282Y1
Recommended Preparation: HIS101H5/ 102Y5

HIS283H5 Introduction to Southeast Asia (HUM)

This course is a survey of Southeast Asian history from the classical to the post-colonial period. It particularly explores the themes of autonomous history, European-Asian collaboration and contestation and state development in the region. [24L, 10T]
Recommended Preparation: HIS101H5

HIS284H5 Introduction to East Asian History (HUM)

A survey of East Asian civilization and history from antiquity to modernity. It particularly explores the interrelations of Chinese, Japanese, and Korean cultural and political development. [24L, 10T]
Exclusion: EAS204Y1, HIS107Y1
Recommended Preparation: HIS101H5/ 102Y5

HIS290H5 Introduction to Latin American History (HUM)

An introduction to the history of Latin America from pre-conquest indigenous empires to the end of the 20th century. Lectures, films, readings, and tutorials explore a set of themes in historical context: nationalism, authoritarianism, religion, racism, patriarchy, and Latin America's multiple interactions with the outside world. [24L, 10T]
Exclusion: HIS290Y5, 292Y1
Recommended Preparation: HIS101H5/ 102Y5

HIS295H5 Introduction to African History (HUM)

A survey of African civilization and history from antiquity to modernity. The course also examines the transformation of Africa from colonial domination to postcolonial states, social movements, and ideologies. [24L]
Exclusion: HIS295H1
Recommended Preparation: HIS101H5/ 102Y5

HIS299Y5 Research Opportunity Program (HUM)

This courses provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.
Prerequisite: Completion of at least 4.0 and not more than 9.0 credits.

HIS300H5 Islam and Muslims in the Balkans (HUM)

This course explores in some detail the specifics of Islamic civilization in the Balkans and the formation and fate of Muslim communities in the region from the Ottoman conquest until the present day. The Balkans, at one time an integral part of the longest living Islamic Empire, the Ottoman state, are nowadays the home of more than 6.5 million Muslims of various ethnic backgrounds. In spite of the growing body of scholarly literature on the subject and the significance of the region, the Balkans still remain marginalized or neglected in the context of both European history and the study of Muslim societies, while local Muslim communities have drawn popular attention primarily in connection to recent conflicts, such as the violent break-up of Yugoslavia. The course seeks to correct this imbalance and bring deeper and more nuanced understanding of how Islam and Muslims contributed to shaping Balkan society, demography, culture and politics, and their relationship to Europe and the larger Muslim world. [24L]

HIS306H5 The Cold War (HUM)

This course will review the alliance systems and conflicts that dominated international relations in the period 1945-1991. It will examine specific incidents such as the Berlin Blockade and Airlift of 1948-49, the Hungarian uprising of 1956, the Cuban Missile Crisis, the Vietnam War, and the Prague Spring, as well as the broader strategies and tactics that followed by the two superpowers and their allies. Particular attention will be given to the documentary evidence that has been declassified in the past two decades, and the light it sheds on earlier developments. [24L]

Recommended Preparation: HIS242H5, 250H5

HIS307H5 The Russian Revolutions of 1917 (HUM)

The fall of the Romanovs and the coming to power of the Bolsheviks have been controversial. This course examines interpretations of the 1917 events using original sources from 1917 in English. [24L]

Prerequisite: A course in modern European history.

HIS308H5 The History of Women Pre-1800 (HUM)

A selection of topics relating to the history of women in European society from ancient to early modern times. [24L]

Exclusion: HIS 308Y5, 245Y1

Recommended Preparation: A course in European history.

HIS309H5 Anglo-Saxon England (HUM)

Political, institutional and social history of England from the fifth to the eleventh centuries. [24L]

Recommended Preparation: HIS220H5/ 327Y5, or another course in medieval history.

HIS310H5 The History of Women since 1800 (HUM)

A selection of topics relating to the history of women in modern European society. [24L]

Exclusion: HIS 308Y5, 245Y1

Recommended Preparation: HIS101H5/ 102Y5

HIS311H5 Introduction to Canadian International Relations (HUM)

Canadian international affairs in a broader context. Anglo-American, 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. [24L]

Exclusion: HIS311Y5/ 311Y1

HIS312H5 Canadian Communities 1600-2000 (HUM)

This course examines selected community interactions with the Canadian environment, society and polity. Lectures, novels and historical readings illuminate some or all of the following groups: First Nations, immigrant brides of New France, Underground Railway migrants, British orphans on Canadian farms, World War I Expeditionary Forces, Italian and Punjabi immigrants. [24L]

Prerequisite: HIS261H5/ HIS263H5/ HIS263Y5

HIS313H5 Canadian Working-Class History to 1919 (HUM)

This course focuses on the transition in Canada from a pre-industrial society to an industrial society, and the changing nature of work. It examines the impact of technological changes on jobs, themes of gender and ethnicity in the workforce, the emergence of the labour movement and workers' political action, working class family and community life, early standards legislation, workers and war, and the meaning of the Winnipeg General Strike 1919. [24L]

Exclusion: HIS313Y5, 313Y1

Corequisite: 1.0 credit from the following list: ECO244Y5; HIS262Y5, (262H5, 263H5), HIS263Y5; SOC227H5

HIS314H5 20th Century Canadian Working-Class History (HUM)

This course focuses on the changing place and definition of workers in modern Canadian society. It surveys the hard years of the Great Depression, workers' contributions to the Second World War, the rise and consolidation of the labour movement, and changing patterns of political action by workers. It examines the creation of a modern industrial relations system, legislative measures affecting workers on the job and during strikes and collective bargaining, the emergence of public sector employees and their negotiations, changing gender roles in the workforce, work experiences of immigrant workers, and Canadian workers' changing position in the global economy. [24L]

Exclusion: HIS313Y5, 313Y1

Corequisite: 1.0 credit from the following list: ECO244Y5; HIS262Y5, (262H5, 263H5) HIS263Y5; SOC227H5

Recommended Preparation: HIS313H5

HIS315H5 History by Numbers (HUM)

Through a series of case studies, this course will examine the uses of quantitative evidence in history. Published works in various fields of history will be discussed and criticized, and simple exercises will be used to demonstrate methods and problems. [24L]

Exclusion: HIS451H5

Prerequisite: 1.0 HIS credit.

HIS318H5 Canadian Environmental History: Contact to Conservation (HUM)

This course focuses on the interaction of people and the environment. Themes include environmental change as a result of: European exploration and settlement; the transfer of animals, plants and diseases; the impact of contact and the "Columbian exchange" on indigenous peoples; the fur trade; the lumber industry; the destruction of the bison, the reserves system, and immigrant settlers in the West; the emergence of the conservation movement in Canada. [24L]

Exclusion: HIS318Y5, 318Y1

Prerequisite: 8.0 credits

Recommended Preparation: HIS 101H5/ 261H5/ 262H5/ 262Y5/ 263H5/ 263Y5

HIS319H5 Canadian Environmental History: Conservation to the Modern Environmental Movement (HUM)

This course focuses on the interaction of people and the environment in the 20th Century. Themes include the environmental impact of industrialization, urbanization, and the revolution in transportation, and of resource development in the mining, oil, and gas industries; the destruction and preservation of wildlife; parks and the wilderness idea; the modern environmental movement; the contested world of modern agriculture and the food industry; the collapse of the fisheries; Canadian public policy, environmental law, and Canada's international role concerning the environment. [24L]

Exclusion: HIS318Y5, 318Y1

Prerequisite: 8.0 credits

Recommended Preparation: HIS(101H5, 318H5)/ 261H5/ (262H5, 263H5)/ 262Y5/ 263Y5

HIS326Y5 History of Women in Canada, 1600-2000 (HUM)

This course samples the experience of women in various regions of Canada from pre-contact times through the First World War. Was Iroquoian society a matriarchy? Were women in New France more "liberated" than their 19th century granddaughters? Other topics include domestic servants, fur trade women, suffrage campaigns, Nellie McClung, World War II and Women's Liberation. [24L, 24T]

Note: This is a 1.0 credit course that is offered over one session (half year) only.

HIS327Y5 From Antiquity to the Middle Ages: Europe 300-800 (HUM)

Lecture course on the transition from ancient to medieval civilization. Emphasizes the character of the source material and its role in shaping the interpretations of modern historiography. [48L]

Exclusion: HIS424Y1

Prerequisite: HIS220H5/ HIS220Y5/ CLA101H5/ CLA231H5/ CLA310H5/ CLA367H5/ CLA368H5/ CLA369H5 or P.I.

HIS329H5 Modern Ireland (HUM)

A topical analysis of modern Irish history concentrating on the conflict of constitutional, social, revolutionary and cultural nationalism. Topics include Fenianism, Home Rule, the 1916 rising, the partition of Ireland and the "time of trouble" in Northern Ireland since 1968. [24L]

Exclusion: HIS329Y5, SMC348Y1

HIS330H5 Politics and Political Change in Latin America (HUM)

Examines major movements and cultures in Latin American politics from independence to present day. Topics include: nineteenth-century militarism; revolutionary socialism in Cuba and Nicaragua; military dictatorships in Argentina, Brazil and Chile; and recent grassroots and transnational political movements. Emphasizes the integral roles of gender, race and the United States in the region's political processes. [24L]

Recommended Preparation: HIS 290H5

HIS338H5 The Holocaust in Nazi Germany and Occupied Europe (HUM)

This course provides an expansive survey of the Nazi extermination of European Jews, including the ideological underpinnings of the genocide; the policies leading up to the "Final Solution" in Germany and the rest of Europe, a broad overview of the varied reactions and policies of many countries throughout Europe, the role of the Vatican and the response of the Jews themselves as well as the international community; the motivation of the perpetrators; and the complexities of survival in the ghettos and concentration camps. [24L, 10T]

Exclusion: HIS338Y5

Recommended Preparation: A course in modern European history

HIS339H5 Postwar Germany, 1945-present (HUM)

This course will explore the history of Germany beginning in 1945. We will examine the evolution of Germany from a dictatorship to a divided state by looking at Allied Policies in the 1940s, the economic wonder of the 1950s, and the tensions between East and West Germany until the fall of the Berlin wall in 1989. This course will look at both East and West Germany's very different confrontations with the Nazi past, the student movement of the 1960s, domestic terrorism in the 1970s, the breakdown of communism in the 1980s, and the growing pains of reunification that exist to the present day. All of these developments will be seen through legal, political, cultural, and media trends. [24L]
Recommended Preparation: HIS242H5/ 338H5

HIS340H5 The Reformation in Europe (HUM)

The focus of this course will be the religious movements of sixteenth century that are described collectively as the Reformation: Lutheranism, Calvinism, the Radical Reformation and the Counter-Reformation. [24L]
Exclusion: HIS340Y5, RLG346H5

HIS341H5 Britain in the Era of World Wars (HUM)

An analysis of the British experience of war and peace in the first half of the twentieth century. [24L]
Exclusion: HIS239H1, 236Y5

HIS345H5 Popular Culture in Latin America (HUM)

Examines popular culture and its relation to broader economic, social and political processes in modern Latin America. Analyzes the way that cultural forms - such as religious practice and belief; dance and sport; music and folklore; urban and rural fiestas; cinema and television - have shaped and been shaped by the evolution of the region since Independence. [24L]
Recommended Preparation: HIS290H5

HIS351H5 Twentieth-Century Russia (HUM)

The Social, economic, and political development of Twentieth-Century Russia: the Russian Revolution, Stalinism, the Cold War. [24L, 10T]
Exclusion: HIS250Y5, 251H5
Recommended Preparation: HIS101H5, 250H5

HIS357H5 The Renaissance (HUM)

A cultural history of the 15th and 16th centuries set against the socio-economic background. The course will concentrate upon the development of the Renaissance in Italy and will deal with its manifestations in Northern Europe. [24L]
Exclusion: HIS357Y5

HIS358H5 Canada Since World War Two (HUM)

This course examines Canadian developments in the post-war period. It explores the tremendous economic expansion in that period. It surveys trends in immigration and urban development. The course also examines social movements and social change, as well as the growth of nationalism in Canada and Quebec. [24L]
Recommended Preparation: HIS263Y5

HIS365H5 Old Ontario (HUM)

The making of the Ontario community from the time of European contact with the First Peoples to the end of the nineteenth century. [24L]

HIS366H5 Diasporic Histories & Cultures (HUM)

This course explores a number of significant historic diasporas - and sites of diaspora - from Constantinople to Al-Andalus to Shanghai, to the United States and the United Kingdom, and to Tel Aviv and the West Bank, through historical record, fiction, memoir and film. [24L]
Recommended Preparation: HIS101H5, 200H5, 263H5

HIS367H5 Diasporic Canada (HUM)

This course explores the history of Canada as a recipient of diasporic communities, arriving from many parts of the world and bringing a great variety of cultures and experiences. [24L]
Exclusion: HIS266H5
Recommended Preparation: HIS101H5

HIS368H5 Canada in the First World War (HUM)

The First World War offers a focus for examining every aspect of Canadian Society in an age recognizable and different from our own. Lectures will address the basis for Canada's involvement in the conflict, the Canadian military response and the problems and achievements of the CEF overseas and the impact of the war on Canada itself. [24L]
Prerequisite: HIS261H5/ 262Y5/ 263H5/ 263Y5/ POL100Y5
Recommended Preparation: A Canadian or European history course.

HIS369H5 Great Lakes Aboriginal History (HUM)

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. [24L]
Exclusion: HIS369Y5

HIS370H5 The American Revolution (HUM)

A comprehensive examination of the causes, conduct, and consequences of thirteen British colonies' withdrawal from their empire. Topics will include English political theory and practice, the unification of the colonies into a new "Continental" government, the military course of the fighting, great-power interventions by Continental Europe, and the Revolution's place in history compared with the contemporaneous French and Haitian revolts. Readings include classic and recent historical writing as well as selected primary sources. [24L]

Recommended Preparation: HIS271H5/ 271Y5/ 272Y5

HIS371H5 The Americas: Interaction and Inequality (HUM)

An introduction to the history of Americas (the present-day territories of the Caribbean, Canada, Latin America and the United States) from pre-conquest indigenous societies to the end of the 20th century. This course will explore the Americas as a zone of connection and interaction between people of distinct environments, cultures and experiences. It surveys the historical continuities and transformations within the region and its linkages to increasingly globalized networks of culture, communication and commerce. [24L]

HIS372H5 The United States in the 20th Century (HUM)

Major developments in the economic, social, political, and cultural life of the United States during the past century as it grew from a burgeoning industrial nation to the leading Superpower. [24L]

Exclusion: HIS372Y5

HIS373H5 From the Gilded Age to the Jazz Age: The Emergence of Modern America, 1877-1929 (HUM)

Examines the major social, political and cultural developments of American society from the end of reconstruction to the stock market crash of 1929. Topics include the rise of mass culture; the growth of the corporation; labour politics; the rise of Jim Crow; the Populist revolt; Progressive Era reforms; WWI; women's suffrage; the Harlem Renaissance; and the "roaring" 1920s. [24L]

Prerequisite: A course in American history.

Recommended Preparation: HIS271H5/ 271Y5/ 272Y5

HIS379H5 History of the Asian Political Economy (HUM)

Historical literature tends to portray a decline in developments in Asia with European capitalist onslaught from the sixteenth century. These views have increasingly undergone revisions in recent decades. This course examines the shifting paradigms in the history of Asian political economy. [24L]

Recommended Preparation: 0.5 200+ level credit in Asian history.

HIS380H5 Modern East Asia Through Film (HUM)

This course explores the issues of class, gender, race, and nation in major East Asian societies by examining how these societies imagine themselves through films. [24L, 5T]

Prerequisite: HIS101H5/ 284H5

HIS381H5 The Politics of Asian-Pacific War Memories (HUM)

This course examines how Japan, China, Taiwan, Korea and the US try to remember the Asian Pacific War. It will particularly focus the bitterly contested representations of war atrocities such as the Nanjing Massacre, the comfort women system, and the bombings of Hiroshima and Nagasaki. [24L]

Prerequisite: HIS101H5

Recommended Preparation: HIS284H5

HIS382H5 Nationalism in Modern South Asia (HUM)

This course foregrounds and examines the relationship between nationalism and popular movements 'from below', against the backdrop of variables such as class, community, gender and religion. In this regard, it relates the broader themes and question under review to the social history of varied groups such as peasants, the working class, tribals, lower castes and women in the era of colonialism, the national-liberation movement and the postcolonial nation-state. [24L]

Prerequisite: HIS282H5

Recommended Preparation: HIS101H5

HIS383H5 Chinese Diaspora (HUM)

This course is a critical examination of the phenomenon of Chinese Diaspora. It studies the movements of Chinese people in history, conceptions of Chinese networks and economic success, and identity politics in America, Canada and Southeast Asia. [24L]

Recommended Preparation: DTS201H5/ HIS283H5/ 284H5

HIS384H5 International Relations in the Middle East - Regional Perspectives on the 20th Century (HUM)

The discovery of oil, the establishment of the state of Israel and subsequent wars for Palestine, Pan-Arabism and Political Islam were the over-riding factors in the regional balance of power. This course examines international relations as they were shaped by state- and non-state actors in 20th Century Egypt, Saudi Arabia, Israel/Palestine, Iraq, Iran, Lebanon and Syria. [24L]

Exclusion: HIS307H1

Prerequisite: HIS101H5, HIS201H5/ 236H5/ 282H5/ 290H5/ 295H5/ 306H5

HIS385H5 Orientalism and Occidentalism (HUM)

This course reflects on Edward W. Said's seminal Study Orientalism. The first part focuses on the debates around academic representations of the Orient before and after Said's intervention: his critics, alternative perspectives and methodological elaborations. The second part dissects the ways in which Orientalism inhabits political forms of belonging such as romantic nationalism or Islamic fundamentalism, as well as colonial constructions of liberalism, race, gender and sexuality. The third part examines the ramifications of Orientalist knowledge production in the media and in visual culture. The course also raises questions of strategic reversals of Orientalism, and to what extent Occidentalism can be considered the non-Western equivalent to Western constructions of Otherness. [24L]

Prerequisite: HIS201H5

HIS386H5 Gender and History in Modern South Asia (HUM)

This course seeks to understand the manifold ways in which gender has shaped South Asia from the colonial era to the contemporary period. The themes will include the relationship between gender and kinship on the one hand and race, imperialism, nationalism, popular movements and religion on the other. [24L]

Exclusion: HIS282Y5, 481H5

Prerequisite: HIS282H5

Recommended Preparation: HIS101H5

HIS387H5 Popular Culture in East Asia (HUM)

This course uses historical texts, fictions, visual media, and ethnography to explore the history of twentieth-century China and Japan. [24L]

Recommended Preparation: HIS101H5/ 284H5

HIS390H5 Revolutions and Nations in Latin America (HUM)

Examines social revolutions in Guatemala, Bolivia, Cuba and Nicaragua. It emphasizes the historical linkages between these revolutions and national identity, and stresses the roles of gender, race and the United States in revolutionary processes. This course considers as well the counterrevolutionary politics of the 1970s and 1980s in Central America and the Southern cone. [24L]

Recommended Preparation: A course in Latin-American history or politics.

HIS391H5 Mexico from Aztec to Zapatista (HUM)

This course examines the origins and evolution of Mexican society, from its prehispanic empires to the Mexican Revolution (1910-1940). Drawing on primary sources, literature, films and secondary texts, the course will track a set of historical themes, including ethnic identity, Catholicism, economic development and migration. [24L]

Prerequisite: HIS290H5

HIS393H5 Slavery and the American South (HUM)

An examination of the role of slavery in the development of the American South from the early colonial period through the Civil War. Among the topics to be dealt with are: 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. [24L]

Exclusion: HIS384Y1

Prerequisite: HIS271H5/ 271Y5/ 272Y5

HIS394H5 Race and Empire in Colonial South Asia (HUM)

This course investigates the language of power and race underwriting the colonial state structure in South Asia in the 19th and 20th centuries. It examines the ways colonial ethnographic, geographical, scientific, medical and legal discourses emerged as fundamental cultural, political and ideological tools in the creation and maintenance of the British Empire. [24L]

Prerequisite: HIS282H5

Recommended Preparation: HIS101H5

HIS395H5 Topics in History (HUM)

An in-depth examination of historical issues. Content in any given year depends on instructor. See Department of Historical Studies web site at

www.utm.utoronto.ca/historicalstudies for details. [24L]

HIS396H5 Modernity and Islam (HUM)

The aim of this course is to engage students in the ongoing historiographical debates on modernity and Islam. Students will critically explore recent public discussions concerning "Islamic Fundamentalism," "Islamic Feminism," and "What Went Wrong" in the Islamic world. [24L]

Prerequisite: HIS101H5, 201H5

Recommended Preparation: HIS282H5

HIS397H5 Iran's Islamic Revolution (HUM)

This course explores the making of the Iranian Revolution of 1978-79 and the subsequent establishment of the Islamic Republic. Framed in a comparative perspective, it explains the cultural and political peculiarities that shaped the Islamist outcome of the Revolution. It examines the staging of the hostage crisis, the Iran-Iraq War, and the secularization of private lives. [24L]

Prerequisite: HIS201H5

HIS399Y5 Research Opportunity Program (HUM)

For senior undergraduate students who have developed some knowledge of a discipline and its research methods, this course offers an opportunity to work on the research project of a professor. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: Completion of a minimum of 8 to 10 credits.

HIS402H5 Topics in the History of French Canada (HUM)

The development of the French-Canadian community under leaders such as Papineau, Laurier, Duplessis and Trudeau. The course traces Quebec's economic development, and the birth and evolution of its nationalism. Novels and films provide insight in to this enduring culture, both in its home province and elsewhere in North America. [24S]

Prerequisite: HIS261H5/ 262H5/ 263H5/ 263Y5

HIS403H5 Empire and Colonization in the French Atlantic (HUM)

This course examines French imperial expansion into the Atlantic world during the 17th and 18th centuries. It focuses on two regional centres of colonial settlement: New France (including the upper country of the interior of North America) and the Caribbean. [24S]

Prerequisite: HIS101H5

HIS407H5 Imperial Germany 1871-1918 (HUM)

This course will explore Germany's history beginning with its unification and trace the events that led to the First World War and the end of the Imperial era. We will examine the Imperial period through various different focal points including unification and the legacy of Bismarck and Kaiser Wilhelm II, the *Sonderweg* debate, gender, nationalism, German Jews and the birth of modern antisemitism, German's brief colonial era, the path to war and the revolution of 1918. By reading historical texts, articles, and novels, and by addressing numerous historiographical debates, we will attempt to understand Germany's foundational period in the context of this country's troubled history. [24S]

Exclusion: HIS407Y1

Recommended Preparation: A course in modern European history.

HIS409H5 The Life Cycle in Medieval and Early Modern Europe (HUM)

This course examines the daily lives of medieval and early modern Europeans as they moved through birth, infancy, childhood, adolescence, marriage, adulthood, old age and death. Special attention is given to the ways in which gender, social status and local custom shaped thoughts and experiences throughout the life cycle. [24S]

Prerequisite: 0.5 credit medieval or early modern Europe.

HIS413H5 Medieval and Early Modern Scotland (HUM)

This course examines the political, social, cultural and religious history of Scotland from 1100 to 1707. Topics include the Anglo-Norman impact, the Wars of Independence, Stewart monarchy, the growth of towns and trade, Highlands and Lowlands, the medieval Church, the Protestant Reformation and Union with England. [24S]

Recommended Preparation: 0.5 credit in medieval or early modern Europe.

HIS415H5 The Reform Tradition in Canada (HUM)

An examination of reform in Canada in the nineteenth and twentieth centuries with special attention to public education, the social gospel, temperance and the development of the country's renowned "social safety net." International aid and peacekeeping efforts will be examined through a case study of our relations with China: immigration policies, the work of nineteenth century missionaries, the medical work of Norman Bethune and Canadian activities through the United Nations. [24S]

Prerequisite: HIS263H5/ 262Y5/ 263Y5

HIS416H5 Canada and the Second World War (HUM)

This course is primarily a social and cultural history of the Canadian experience during the Second World War. Themes include: women in the war plants, internment camps, war brides and war orphans, war and memory, displaced persons, the Holocaust, the atom bomb, and displaced persons in 1945. [24S]

Prerequisite: HIS261H5/ 262H5/ 263H5/ 263Y5

HIS420H5 Topics in Medieval History (HUM)

Critical evaluation of selected legal, literary and narrative sources. Thematic content will vary from year to year, but there will be an emphasis on social history. [24S]

HIS429H5 Studies in Irish History (HUM)

A thematic analysis of some contentious issues in modern Irish history. Subjects to include the Act of Union, Catholic Emancipation, Ulsterism, the Great Famine, the Home Rule movement, and the Easter Uprising. [24S]

HIS430H5 Appeasement and World War Two (HUM)

An analysis of the roles played by appeasement diplomacy and the British Prime Minister Neville Chamberlain in the origins of World War Two. The seminar examines the history and historiography of appeasement and the subsequent impact on international relations. [24S]

Prerequisite: HIS242H5/ 236H5/ 236Y5/ 341H5

Recommended Preparation: HIS101H5

HIS431H5 Modern China (HUM)

A critical examination of the historiography of modern China. It is simultaneously a study of modern Chinese history and historiography in general. [24S]

Prerequisite: HIS101H5

Recommended Preparation: HIS284H5

HIS435H5 The Viking Age (HUM)

A seminar on the history of Europe from the eighth to the eleventh centuries with emphasis upon the Scandinavians and their relations with western European civilization.

Readings will be in both primary and secondary sources. [24S]

Prerequisite: P.I.

HIS438H5 Remembering Atrocity: The Holocaust and Historical Memory in Europe and North America (HUM)

This course will examine how Europe and North America confronts the Holocaust through the law, literature, left wing agitation, film, memorials and museums, and political debates. Among the focal points: the Nuremberg and postwar West German trials of Nazis, the fascination with Anne Frank, anti-fascist terror in 1970s Germany, The Berlin Memorial and the US Holocaust Museum, and films such as *The Pianist* and *Schindler's List*. [24S]

Prerequisite: HIS242H5/ 338H5/ 339H5

HIS440H5 Photography and American Culture (HUM)

Examines the history of photography in the United States, in relationship to society and culture. The course will follow three threads: the history of the medium, from 19th century daguerreotypes through 20th century fine art and documentary photography; the relationship between photography and American history, especially urbanization, the rise of commercial culture, and identity formation; and finally the history of the theory of photography, i.e., how photography has been understood as a medium. [24S]

Prerequisite: P.I.

Recommended Preparation: 1.0 credit in American history or 1.0 credit in modern art history.

HIS441H5 Race and Gender in the Northern Colonies (HUM)

This seminar addresses two major determinants in the history of colonial Canada and New England. It taps a rich primary and secondary literature on natives, blacks, metis and women. In their individual research projects, students may choose to focus on gender or on race. [24S]

Prerequisite: HIS261H5/ 262H5/ 263H5/ 263Y5/ 271H5

HIS448H5 Memory, History and South Asia's Contested Pasts (HUM)

This course focuses on the relationship between memory and the "traditions" of historical writing and remembering in the sub continent from 1200 to the present. It also focuses on the role of politics in mediating the region's multiple, often contesting histories in our period of study. [24S]

Prerequisite: HIS282H5

Recommended Preparation: HIS101H5/ 382H5/ 386H5/ 394H5

HIS452H5 The Great Depression in Canada (HUM)

This course explores the social, economic and political crisis in the 1930s. It examines social welfare policies, cultural developments, themes of regionalism and federalism and political change. [24S]

Prerequisite: A university-level course in modern Canadian history, P.I.

HIS454H5 Race, Gender and Nation in Modern Latin America (HUM)

This seminar examines the interconnected histories of race, gender and nation in Latin America. It studies the significance of race/racism and gender/patriarchy in the construction of national societies in Latin America during the nineteenth and twentieth centuries. Subtopics include: slavery and Indian servitude; acculturation and eugenics; immigration and urbanization; machismo and marianismo; and current Indian and women's movements. [24S]

Prerequisite: HIS290H5/ 290Y5

HIS461H5 History of Upper Canada (HUM)

This course surveys Ontario before Confederation. Topics include aboriginal and immigrant settlements, gender roles and the rise of schooling. Also of interest are political topics: Loyalism, the Family compact, the 1837 Rebellion and Upper Canada's key role in shaping Confederation. Each student explores one key historical figure in depth through biographies and primary sources of a key Upper Canadian figure. [24S]

Prerequisite: HIS262H5/ 263Y5

HIS475H5 The French Revolution (HUM)

A topical survey of the French Revolution dealing with the uprising in France and its repercussions elsewhere by examining such subjects as its causes, its effect on nations, classes and gender, and its relation to nationalism, socialism and democracy. [24S]

Recommended Preparation: A course in European history.

HIS476H5 The Civil War and Reconstruction (HUM)

An exploration of the most traumatic event in American history: the attempt to sunder, cleanse, and ultimately reunite the Union created in 1776. The course will survey the origins of the war, differences between northern and southern economies and societies, the eclipse of the Old South, slavery and race relations, the social impact of the war, and the short- and long-term consequences of attempts to develop a new regime in the South. Readings include classic and recent historical writing as well as selected primary sources. [24S]

Recommended Preparation: HIS271H5/ 271Y5/ 272Y5

HIS478H5 Immigration & Ethnicity in U.S. History (HUM)

This course focuses on the history of immigration and construction of ethnic identities in America from the post-Civil War period to the present day. The course begins after 1865 when "New Immigrants"—those from Southern and Eastern Europe and from Latin America and Asia—arrived in significant numbers, contributing to the already complex ideologies on race and citizenship. This course challenges students to reconsider how, why and by whom ethnic identities were constructed. [24S]

HIS479H5 Cold War America (HUM)

An examination of significant political, economic, social and intellectual developments, including Cold War Foreign policies, economic and social reforms, McCarthyism, the Civil Rights movement, women's liberation, the "counter-culture," and the Indochina Wars. [24S]

Exclusion: HIS479Y5

HIS482H5 Empire and Nation in Modern East Asia (HUM)

This course examines the historical events associated the collapse of the Chinese Qing empire, the arrival of Western imperial powers, the rise of the Japanese empire, as well as the emergence of nationalisms in China, Japan, Korea, and Taiwan in the 19th to the 20th centuries. [24S]

Prerequisite: HIS101H5, HIS284H5

HIS483H5 Colonialism in East Asia (HUM)

This course examines the ideologies and practices of colonialisms, both internal and external, in modern East Asia. [24S]

Prerequisite: HIS101H5

Recommended Preparation: HIS284H5

HIS484H5 Religion and Popular Culture in Modern South Asia (HUM)

The course examines the role played by religion in shaping the public sphere, popular culture and everyday practice in Modern South Asia. It also studies key themes on the subject. [24S]

Prerequisite: HIS282H5

Recommended Preparation: HIS101H5/ 382H5/ 386H5/ 394H5

HIS486H5 Political Thought in the Reformation (HUM)

The political thought of the Protestant reformers and pamphleteers of the 16th century is examined, with emphasis on the issues of Church-state relations and religious toleration. [24S]

Exclusion: HIS486Y5

Prerequisite: A course in medieval or early modern European history.

HIS487H5 Canadian Social History (HUM)

The evolution of Canada from an agrarian to an industrial society. Themes include migration and ethnicity, urbanization and industrialization, violence and social order, social stratification, education and family. [24S]

Recommended Preparation: HIS262H5/ 262Y5/ 263H5/ 263Y5

HIS490H5 Religion and Society in Latin America (HUM)

An interdisciplinary seminar that examines religion and its historical role in shaping culture, society, and politics in Latin America. It considers both the formal institutional practice of religion as well as informal and popular religiosities. A framing theme of the course is the complex relationship between Church and State - and more broadly, between religion and politics - in the region. [24S]

Recommended Preparation: HIS290H5

HIS493H5 Advanced Topics in Global History (HUM)

An in-depth examination of historical issues. Content in any given year depends on instructor. [24S] See Department of Historical Studies website at

www.utm.utoronto.ca/historicalstudies for details.

HIS494H5 Advanced Topics in the History of the Americas (HUM)

An in-depth examination of historical issues. Content in any given year depends on instructor. [24S] See Department of Historical Studies website at

www.utm.utoronto.ca/historicalstudies for details.

HIS495H5 Advanced Topics in European History (HUM)

An in-depth examination of historical issues. Content in any given year depends on instructor. [24S] See Department of Historical Studies website at

www.utm.utoronto.ca/historicalstudies for details.

HIS496H5 International Relations, 1870-1945 (HUM)

The international relations of the European powers at their zenith and in decline. The interaction of the European powers is studied from the creation of the Second Reich to the origins of the First World War, the Versailles settlement, and the inter-war "twenty year crisis" through the Second World War. The economic and social framework will be examined as well as political conflicts. [24S]

Exclusion: HIS496Y5

HIS498Y5 Internship in History (HUM)

Through a part-time, unpaid work placement, a limited number of advanced history students may enrol for field experience relating to expertise they have gained in the program. Placements are made at local libraries, historic sites and foundations, media outlets, public and private institutions. Five previous history courses and a cumulative GPA of 3.0 are required. For application to admission contact the Department of Historical Studies before June 1. *Prerequisite:* 5.0 HIS credits, including 1.0 credit in Canadian History; and a CGPA of 3.0.

HIS499H5 Independent Reading (HUM)

Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for students in History Specialist, Joint Specialist or Major programs. After obtaining a supervisor, a student must apply to the Department of Historical Studies. A maximum of 2 reading courses, amounting to 1.0 credit, is permitted.

HIS499Y5 Research Opportunity Program (HUM)

For senior undergraduate students who have developed some knowledge of a discipline and its research methods, this course offers an opportunity to work on the research project of a professor. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: Completion of a minimum of 8 to 10 credits.

History and Political Science (HBA)

Full listing of Political Science (Page 275) courses

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

HIS History (page 207)

Combined Specialist Program ERSPE1045 History and Political Science (Arts)

Political Science

7.0 credits in POL are required, including at least 1.0 at the 300 level and 1.0 at the 400 level.

1. POL200Y, POL214Y
2. 1.0 credit from two of the following three fields: - Comparative Politics - International Relations - Public Policy and Public Administration
3. 3.0 additional POL credits.

History

First Year: HIS101H5; an additional HIS course at the 200 level may be taken.

Higher Years: Additional HIS courses to a total of at least 7.0 credits from at least two geographical divisions of study. These must include HIS262H5, 263H5/ HIS263Y5; at least 3.0 credits at the 300/400 level; 2.0 HIS courses must correspond in region or theme to 2.0 of the POL courses chosen.

Notes:

1. Specialists must take a 100 level HIS credit to complete the program.
2. Specialists may substitute non-HIS courses taught elsewhere at U of T Mississauga for up to 2.0 of the HIS credits.
3. The **Department of Historical Studies Handbook** identifies substitutions, courses satisfying division requirements and pre-modern courses. It is available online at:
<http://www.utm.utoronto.ca/historicalstudies>.

Within an Honours degree, 14.0 credits are required.

Limited Enrolment – Enrolment in the Specialist Program in History and Political Science is limited.

1. Students enrolling at the end of first year (4.0 credits) must obtain a mark of at least 67% in 1.0 POL credit and a mark of at least 70% in 1.0 HIS credit and have a Cumulative Grade Point Average of 2.00.
2. Students enrolling at the end of second year (8.0 credits) must obtain a mark of at least 70% in each of 2.0 POL credits and a mark of at least 70% in each of 2.0 HIS credits and have a Cumulative Grade Point Average of 2.30.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

History of Religions (HBA)

Professors Emeriti

N.F. McMullin, B.A., S.T.B., M.Th., Ph.D.
L.E. Schmidt, B.A., M.A., Ph.D.

Professors

C. Emmrich, M.A., DPhil.
S.K. Metso, B.A., M.Th., Th.D.
E. Raffaelli, B.A., M.A., Ph.D.
A. Rao, B.A., M.A., PhD.
K. Ruffle, B.A., M.A., Ph.D.
S. Virani, B.A., M.A., PhD.

Chair

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The History of Religions explores the importance of religion in the historical processes that make up world history. It situates religion in its historical and socio-political contexts as part of the interplay of forces that constitute the story of humankind, and acknowledges the role of religion in shaping and being shaped by that story. Its approach often involves (but is not limited to) the study of particular religious traditions, the comparative study of religion, and the study of the religious dimension of human experience and of common historical phenomena. Its subject includes all religions throughout the world, from ancient times to the present day. The History of Religions is therefore an excellent preparation for living and working in a cosmopolitan and multiconfessional world. As an academic subject, it is intrinsically rewarding and can lead to graduate work in a variety of disciplines in the humanities and social sciences. It also provides the reading, writing, and analytical skills demanded by a wide range of careers in ministry, government, business, library and museum science, law, teaching, journalism, and community services, such as counselling and social services.

The department encourages students to take advantage of the various study abroad opportunities available at UTM.

For more information, refer to the Department of Historical Studies website at

<http://www.utm.utoronto.ca/historicalstudies/>

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

HIS History (page 207)

RLG History of Religions (page 220)

Specialist Program ERSPE0151 History of Religions (Arts)

Within an Honours degree, 10.0 RLG credits are required.

First Year: 0.5 credit in HIS101H5. It is recommended that this course be taken in the first year.

Higher Years: 2.0 200 level credits

0.5 credit in RLG312H5 *Method and Theory in the History of Religions*

3.5 300 level credits (1.5 in Primary Concentration; 1.0 in Secondary Concentration; 1.0 Comparative)

1.0 400 level credit

2.5 additional RLG credits at any level

Specialists are permitted to substitute non-RLG courses for up to 2.0 RLG credits. A list of courses suitable as substitutions is available in the Department of Historical Studies handbook. Other substitutions will be considered on a case-by-case basis after the submission of the relevant syllabus.

Primary concentration: Specialists in the History of Religions must select a primary concentration in one of the following areas: Buddhism, Christianity, Greco-Roman Religions, Islam, Judaism, South Asian Religions, or Zoroastrianism.

Secondary concentration: To cultivate a broader understanding of the history of religions, specialists are to choose a secondary concentration.

Major Program ERMAJ0151 History of Religions (Arts)

7.0 RLG credits are required.

First Year: 0.5 credit in HIS101H5. It is recommended that this course be taken in the first year.

Higher Years: 1.5 200 level credits

0.5 credit in RLG312H5 *Method and Theory in the History of Religions*

3.0 300 level credits (1.5 in Primary Concentration; 1.0 in Secondary Concentration; 0.5 Comparative)

1.0 400 level credit

0.5 additional RLG credit at any level

Majors are permitted to substitute non-RLG course for up to 2.0 RLG credits. A list of courses suitable as substitutions is available in the Department of Historical Studies handbook. Other substitutions will be considered on a case-by-case basis after the submission of the relevant syllabus.

Primary concentration: Majors in the History of Religions must select a primary concentration in one of the following areas: Buddhism, Christianity, Greco-Roman Religions, Islam, Judaism, South Asian Religions or Zoroastrianism.

Secondary concentration: To cultivate a broader understanding of the history of religions, majors are to choose a secondary concentration.

Minor Program ERMIN0151 History of Religions (Arts)

4.0 RLG credits are required.

First Year: 0.5 credit in HIS101H5. It is recommended that this course be taken in the first year.

Higher Years: 1.5 200 level credits

1.0 300/400 level credit

1.0 additional RLG credit at any level

Minors are permitted to substitute non-RLG courses for up to 1.0 RLG credits. A list of courses suitable as substitutions is available in the Department of Historical Studies handbook. Other substitutions will be considered on a case-by-case basis after the submission of the relevant syllabus.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

RLG101H5 Introduction to the Study of Religion (HUM)

Theories about the variety and nature of religious experience, personal and collective. How religious life is expressed in such forms as myth, narrative and ritual, systems of belief and value, morality and social institutions. [36L]

Exclusion: RLG101Y1, RLG100Y5, 280Y5

RLG202H5 Introduction to Judaism (HUM)

This course studies Jewish religious thought and activity in both ancient and modern times through selected biblical, rabbinic, medieval, and modern Jewish writings. It explores the roots of Jewish religion, the variety of Jewish traditions, and how these traditions worldwide have been transformed throughout history in response to major political and religious crises. [24L]

Exclusion: RLG202Y1

Recommended Preparation: HIS101H5

RLG203H5 Introduction to Christianity (HUM)

This course introduces the diverse history of the Christian religious tradition, from Jewish sect to global movement. How has the essence of Christianity been defined through the centuries? Why have various people from very different times and places, and from very different social strata, become, or remained, Christians? How have Christian beliefs and practices adapted to changing historical circumstances? How have various churches related to ruling powers? These are the main questions we will be focussing on throughout the term. In pursuing answers to these questions, the emphasis will be on how Christianity has both shaped and been shaped by various social and cultural environments. [24L]

Exclusion: RLG203Y1

Recommended Preparation: HIS101H5

RLG204H5 Introduction to Islam (HUM)

The faith and practice of Islam: historical emergence, doctrinal development, and interaction with various world cultures. [24L]

Exclusion: RLG204Y1

Recommended Preparation: HIS101H5

RLG205H5 Introduction to South Asian Religions (HUM)

A historical and thematic introduction to South Asian religious traditions as embedded in the socio-cultural structures of India. [24L]

Exclusion: RLG205Y1

RLG206H5 Introduction to Buddhism (HUM)

The teachings of the Buddha and the development, spread, and diversification of the Buddhist tradition from southern to northeastern Asia. [24L]

Exclusion: RLG206Y1, RLG206Y5

Recommended Preparation: RLG101H5

RLG208H5 Introduction to Zoroastrianism (HUM)

A survey of the historical development of Zoroastrianism and its canonical texts, doctrines, rituals, and observances from the time of Zoroaster to the present. It also explores the emergence of Zoroastrian diasporic communities in India, Europe, and North America. [24L]

Recommended Preparation: HIS101H5

RLG299Y5 Research Opportunity Program (HUM)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

RLG304H5 Islamic Spiritual Traditions (HUM)

An investigation of the spiritual traditions in Islam, covering the development of Sufism and other esoteric schools of Islamic thought. The historical evolution of devotional traditions, philosophical schools and scriptural hermeneutics are explored. [24L]

Recommended Preparation: RLG204H5 or permission of the instructor.

RLG305H5 Islamic Aesthetic Traditions (HUM)

This course explores aesthetic traditions in the Muslim world, including art, architecture, music and literature. Case studies may range from the majestic Taj Mahal to the sonorous voice of Umm Kulthum, from the enthralling worlds of the *1001 Arabian Nights* to the lilting lyricism of poets like Hafiz and Rumi. [24L]

Recommended Preparation: RLG204H5 or permission of the instructor.

RLG306H5 Shi'i Islam (HUM)

An exploration of the history, thought and institutions of the Shi'i interpretation of Islam. The early Shi'i milieu, Zaidi, Ismaili and Twelver Shi'ism and the development of the Shi'i school of thought from early to modern times will be studied in this course. [24L]

Recommended Preparation: RLG204H5 or permission of the instructor.

RLG307H5 Indian Scholasticism (HUM)

A general introduction to Indian scholasticism through the organizing rubric of the human ends (purusharthas): pleasure, power, moral order, and liberation. Intellectual traditions covered may include the science of desire, aesthetics, the science of power, analysis of the socio-moral order, hermeneutics, and metaphysics. [24L]

Recommended Preparation: RLG205H5 or permission of instructor.

RLG308H5 Religion in Medieval Indian History (HUM)

A survey of Vaishnava, Saiva, Jaina, and Islamic traditions in the Vijayanagara Empire of late-medieval South India, this course explores the use of historical data in the study of religion. [24L]

Recommended Preparation: RLG205H5 or permission of instructor.

RLG310H5 The Ramayana (HUM)

A study of the Ramayana of Valmiki in translation. Themes include aesthetic, ethical, and socio-political issues in the text, as well as commentary and the rise of Rama worship. [24L]

Recommended Preparation: RLG205H5 or permission of instructor.

RLG312H5 Method and Theory in the History of Religions (HUM)

A team-taught course which examines the historical emergence of the discipline of religious studies, representative works of the nineteenth- and twentieth-centuries, and the application of theoretical and methodological approaches to one or more religious tradition. (Required of specialists and majors) [24L]
Recommended Preparation: At least one 200-level course in the History of Religions.

RLG313H5 The Literature of Ancient Israel (HUM)

The Hebrew Bible (i.e. the Old Testament) is not a single book, but an anthology selected from a larger body of ancient Jewish literature reflecting different authors, historical circumstances, literary genres, and religious agendas. This course familiarizes the student with critical study of the Hebrew Bible and related literature of ancient Jewish communities (Apocrypha, Pseudepigrapha, Dead Sea Scrolls). Among the topics to be examined are the basic forms of ancient Hebrew literature, the issues of textual development, the process of canonization, and the ancient Near Eastern cultural environment from which this literature emerged. [24L]

RLG314H5 Religion and Gender (HUM)

This course focuses on the interaction of gender and religion from a comparative and multidisciplinary perspective; topics include creation myths, authority and leadership, sainthood, expressions of the divine, and gendered ritual.

Prerequisite: RLG101H5

RLG315H5 Biblical Wisdom and Poetry (HUM)

Ancient Jewish sages understood wisdom as a "skill in living." Wisdom for them was an approach to life, a way of looking at the world, and a quest for meaning and purpose in the relationships with God and fellow human beings. Some of history's most enduring collections of ancient wisdom are included in the Hebrew Bible (i.e., Old Testament) books of Job, Proverbs and Ecclesiastes. Wisdom perspectives are also found in the Song of Songs and many of the Psalms. Sometimes joyful and exultant, at other times cynical and fatalistic, the ancient sages wrestled with the ups and downs of life, and grappled with them rationally from the perspective of experience and community wisdom. This course investigates the genre of wisdom literature - its style, language, and historical and theological backgrounds - and explores the pluriformity of the biblical heritage. [24L]

RLG320H5 Topics in Ancient Greek and Roman Religions (HUM)

A detailed study of selected topics of religion in the ancient Greek and Roman world. Topics may have an historical, historiographical or systematic focus and vary from year to year. [24L]

RLG321H5 Rituals in Ancient Greek and Roman Religions (HUM)

An examination of the role of ritual in the ancient Greek and Roman world. Individual topics vary from year to year and may focus on ancient rituals such as divination, magic, prayer, sacrifice, temple cult practices, etc. Attention will be paid to their performative structure, function and meaning in ancient society. Please note that this course may be taken only once for credit. [24L]

RLG323H5 Jesus in the Early Christian Writings (HUM)

Analytic and comparative study of the earliest accounts of Jesus; the "historical Jesus," viewed in the light of Jewish Messianic expectations. [24L]

Exclusion: RLG323H1

Prerequisite: One RLG course

Recommended Preparation: RLG241H5, 241Y5

RLG324H5 The Writings of Paul (HUM)

The literary form of Paul's letters, the sources of his thought, and the theological view that emerges. [24L]

Exclusion: RLG324H1

Prerequisite: One RLG course

Recommended Preparation: RLG241H5/ 241Y5

RLG325H5 Visions and Revelations (HUM)

Apocalyptic literature, concerned with the expectation of imminent, radical and transforming intervention of the divine into human history, flourished between 200 BCE and 200 CE. This course provides an introduction to the study of the origin, form and function of ancient Jewish and related apocalyptic literature understood in its cultural and literary contexts. [24L]

Prerequisite: RLG202H5/ 203H5

RLG326H5 Early Christianity and Rabbinic Judaism (HUM)

The course will address both historical and thematic issues. The main historical question to be considered is: How did 'orthodox' Christianity and 'orthodox' Judaism emerge in the five centuries after Jesus and the destruction of the Jewish temple? Answering this question will involve an examination of the diversity in both traditions, the formation of authoritative writings, and how a dominant group in each case came to power. Attention will be given both to how these two emerging orthodoxies responded to each other and to how they interacted with their social, political, and cultural context. Various themes relevant to the beliefs and practices of both traditions will also be considered. [24L]

RLG330H5 Topics in Judaism (HUM)

A detailed study of selected aspects of Judaism. [24L]

Prerequisite: RLG 101H5/ 100Y5/ 100Y1/ 202H5/ 202Y1

Recommended Preparation: HIS 101H5

RLG332H5 Reel Religion (HUM)

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. [24L, 12T]

Exclusion: RLG232H5, 232H1

RLG333H5 Biblical Themes in Modern Literature (HUM)

This course examines of the role and representation of Christian traditions, teachings, and themes in various (non-Biblical) literary works. Topics may include: sin and salvation; myth and parable; selfhood and identity; missionizing and conversion; evil and "othering"; love and forgiveness; guilt and sacrifice; and suffering and transcendence. [24L]

Prerequisite: RLG203H5

RLG339H5 Ideologies of Tamil Religion (HUM)

This is a survey of the structures of Tamil religious thought in its textual and ethnographic traditions beginning from classical Cankam literature to present-day Goddess and politician cults, seeking to examine if there is a religious aesthetic which can be classified as intrinsically Tamil. [24L]

RLG340H5 Topics in Christianity (HUM)

A detailed study of selected aspects of Christianity. [24L]

Prerequisite: RLG101H5/ 100Y5/ 100Y1/ 203H5/ 203Y1

Recommended Preparation: HIS101H5

RLG341H5 The Literature of the Early Christians (HUM)

This course investigates the New Testament and related literature, and of the Jewish, Hellenistic, and Roman cultural environment that was its background. The earliest extant Christian documents (the letters of Paul), the production of "gospels" about Jesus, and the development of the early Christian movement, as reflected both in canonical and extracanonical literature, shall be discussed. The aim of the course is to reconstruct the history and religion of the first Christians in their various shapes, as reflected in their literature. [24L]

Exclusion: RLG241H5, 241Y5, 241Y1

RLG343H5 Major Themes in Biblical Literature (HUM)

Major religious themes running through biblical literature. Old and New Testament concepts of creation, election, covenant, salvation, divine law, prophecy, wisdom, justification, etc. [24L]

Exclusion: RLG243H5/ 243Y5/ 243Y1

RLG346H5 The Age of Religious Conflict: Catholics and Protestants in Historical Perspective (HUM)

The history, intellectual setting, social contexts and historical significance of the Reformation; special attention to works by Hus, Wycliffe, Luther, Zwingli, Bucer, Calvin and others. These will be studied with regard to diverse intellectual and social movements including scholasticism, humanism, communalism, anabaptism, puritanism and catholic reform. [24L]

Exclusion: RLG246H5/ 246Y5, HIS340H5

RLG347H5 Zoroastrian Religious Writings (HUM)

The course studies passages of Zoroastrian texts, principally from pre-Islamic times, in English translation. These passages are studied from the doctrinal point of view, and placed in the context of the history of Zoroastrianism. In addition, their points of contact with the texts of other religious literatures are analyzed. [24L]

Exclusion: RLG381H5

Recommended Preparation: RLG208H5

RLG348H5 Zoroastrian Customs and Ceremonies (HUM)

The course analyzes the religious practices and the daily practices having a religious background, performed by the Zoroastrians in modern times. Their historical development is analyzed, considering, for the medieval and modern times, the influence of the environment of the countries where Zoroastrians lived, and where they represented a minority. Also highlighted is the significance of these practices in relationship to the Zoroastrian doctrinal system. [24L]

Recommended Preparation: RLG208H5

RLG349H5 Foundations of Christian Europe (400-1000 C.E.) (HUM)

After the withdrawal of Roman administration from the western provinces in the 5th century, the legacy of Rome was preserved in Latin Christianity. The Roman Church encountered challenges and opportunities in its dealings with the warrior cultures of the Germanic tribes that had taken over the former imperial provinces. This course charts the initial stages of the solidification of papal authority in the West, through an expanding network of bishops, monasteries, and missions. It also considers why pagan rulers would have considered conversion an attractive option, and the sometimes strained church-state relations that ensued. The roots of the Catholic Church, and the foundations of the Christian world view of Europe, lie in these processes. [24L]

Exclusion: RLG342H5

RLG350H5 Topics in Islam (HUM)

A detailed study of selected aspects of Islam. [24L]

Prerequisite: RLG101H5/ 100Y5/ 100Y1/ 204H5/ 204Y1

Recommended Preparation: HIS101H5

RLG351H5 Major Themes in the Study of the Quran (HUM)

An introduction to the Quran, the scripture of Islam. Surveys of the history of the text and the development of traditions of Quranic interpretation and commentary, including tafsir and ta'wil, from early to modern times. [24L]

RLG352H5 Jews and Muslims: The Medieval Encounter (HUM)

This course examines the encounter between Jews and Muslims during the Middle Ages, when a large majority of the Jewish people subsisted under Muslim rule: an overview of the religious, political, communal, material and intellectual settings of the Judaeo-Muslim experience. [24L]

Exclusion: RLG250H5

Prerequisite: HIS101H5/ RLG101H5/ 202H5/ 204H5

RLG356H5 Persia and Beyond: Christianity in Asia to 1300 (HUM)

This course will examine the origins of Syriac-speaking Christianity on the eastern fringes of the Roman world, and chart its spread into Persia, Central Asia, China, and India. In contrast to the situation in Byzantium and in the Latin West, Christians in Asia lived (with few exceptions) as religious minorities under Zoroastrian, Muslim, Confucian, or Hindu rulers. We shall consider how these Christians adapted to regional cultures, engaged the political structures of the day, and developed their own unique theological and spiritual traditions. [24L]

RLG357H5 Christianity in the Developing World (HUM)

This course begins by examining the general factors that have led to the rise of Christianity in modern, non-Western contexts, and then adopts a narrower focus, looking in greater depth at one region in order to understand how Christianity has become important in the society, culture and politics of that particular part of the world. [24L]

RLG360H5 Topics in South Asian Religions (HUM)

A detailed study of selected aspects of South Asian Religions. [24L]

Prerequisite: RLG101H5/ 100Y5/ 100Y1/ 205H5/ 205Y1

Recommended Preparation: HIS101H5

RLG370H5 Topics in Buddhism (HUM)

A detailed study of selected aspects of Buddhism. [24L]

Prerequisite: RLG101H5/ 100Y5/ 100Y1/ 206H5/ 206Y1

Recommended Preparation: HIS101H5

RLG371H5 Buddhist Thought (HUM)

The course deals with the historical development of doctrines and controversies pertaining to the most important schools of Buddhist thought up to the end of the first millennium CE. It discusses the relationship of reason, belief and practice while giving a closer look at Buddhist positions on specific philosophical questions. [24L]

Exclusion: RLG371H1

Prerequisite: One RLG course

Recommended Preparation: RLG206H5/ 206Y5

RLG373H5 Buddhist Practices and Institutions (HUM)

The course will help understand the historical importance of aims giving and devotion in Buddhism and will look at different traditions of meditation. It will also introduce to the literature of monastic discipline and confront it with both archeological remains of Buddhist institutions and their political and economic role today. [24L]

Exclusion: RLG273H5, 273Y5

Prerequisite: One RLG course

Recommended Preparation: RLG206H5, 206Y5

RLG374H5 Buddhist Literatures (HUM)

The course looks at popular Buddhist educational storytelling, courtly dramas, Buddhist poetry or the life-histories of the buddhas, bodhisattvas and Buddhist holy men and women. It reflects on how popular motifs, aesthetic styles and literary media have helped transport Buddhist doctrines across various times, regions and languages. [24L]

Prerequisite: One RLG course

Recommended Preparation: RLG206H5/ 206Y5

RLG380H5 Topics in Comparative Religions (HUM)

An in-depth study of the main teachings, practices and institutions of the major, and several of the minor, religious traditions: namely, Buddhism, Christianity, Confucianism, Hinduism, Islam, Jainism, Judaism, Shinto, Sikhism, Taoism and Zoroastrianism. [24L]

Exclusion: RLG280H5/ 280Y5

Prerequisite: Two of RLG202H5/ 203H5/ 204H5/ 205H5/ 206H5/ 208H5

RLG381H5 Topics in Zoroastrianism (HUM)

A detailed study of selected aspects of Zoroastrianism. [24L]

RLG388H5 Special Topics (HUM)

A comprehensive study of special topics in the history of religions. [24L]

RLG399Y5 Research Opportunity Program (HUM)

For senior undergraduate students who have developed some knowledge of a discipline and its research methods, this course offers an opportunity to work on the research project of a professor. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: Completion of a minimum of 8 to 10 credits.

RLG430H5 Advanced Topics in Judaism (HUM)

A critical exploration of selected topics in the history of Judaism. [24S]

Prerequisite: RLG202H5/ 330H5

RLG435H5 The Dead Sea Scrolls (HUM)

This course provides a survey of the Dead Sea Scrolls, a brief history of the period in which the Scrolls were written, and a presentation of the various ways in which scholars have interpreted them. The course also includes in-depth study of selected texts and themes illuminating the formation of the Hebrew Bible, ancient Judaism, and the historical and theological background of the New Testament and early Christianity. [24S]

Prerequisite: RLG202H5/ 203H5

RLG440H5 Advanced Topics in Christianity (HUM)

A critical exploration of selected topics in the history of Christianity. [24S]

Prerequisite: RLG203H5/ 340H5

RLG449H5 Islamic Sexualities (HUM)

This course focuses on the diverse attitudes and expressions of sexuality in Islam. Taking a broad approach, this course examines issues of sexuality, including homosexuality, fe/male sexuality, birth control, divorce, marriage, transgender identity and performance, and feminist sexual ethics. [24S]

Prerequisite: ANT335H5/ RLG204H5/ RLG314H5/ WGS301H5/ WGS450H5

RLG450H5 Advanced Topics in Islam (HUM)

A critical exploration of selected topics in the history of Islam. [24S]

Prerequisite: RLG204H5/ 350H5

RLG451Y5 Islamic Literatures (HUM)

This course is an in depth exploration of the literary traditions of the Islamic world. The course examines the influence of religion in the writings of Muslim authors, as well as the role of symbols, philosophy, mystical practice, ideologies, rituals and history in the creation of literary pieces. Works will be studied in their original language. The focus language and the primary theme of the course will change every year. [48S]

Recommended Preparation: RLG204H5/ P.I.

RLG452H5 Anthropology of Islam (HUM)

This course focuses on the everyday lived experience of Muslims in different parts of the world. We will read ethnographic studies and analyze films, which highlight important issues in everyday Muslim life: gender, modernity and piety, the role of ritual in everyday practice. This course has an ethnographic field project. [24S]

Prerequisite: RLG204H5, 0.5 additional course in Islam or Anthropology.

Recommended Preparation: RLG306H5/ WGS301H5

RLG460H5 Advanced Topics in South Asian Religions (HUM)

A critical exploration of selected topics in the history of South Asian religions. [24S]

Prerequisite: RLG205H5/ 360H5

RLG470H5 Advanced Topics in Buddhism (HUM)

A critical exploration of selected topics in the history of Buddhism. [24S]

Prerequisite: RLG206H5/ 370H5

RLG499H5 Independent Reading (HUM)

Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for students in Religion Specialist or Major programs. After obtaining a supervisor, a student must apply to the Department of Historical Studies. A maximum of 2 reading courses, amounting to 1.0 credit, is permitted.

RLG499Y5 Research Opportunity Program (HUM)

For senior undergraduate students who have developed some knowledge of a discipline and its research methods, this course offers an opportunity to work on the research project of a professor. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: Completion of a minimum of 8 to 10 credits.

Human Communication and Technology

The Human Communication and Technology (Science) program (ERSPE1230 Specialist) will no longer be offered effective 2010-11. Students already in this program may continue to follow it.

Human Resources and Industrial Relations (HBA)

The Human Resources and Industrial Relations (ERMAJ1882) program is under review and will not be available for entry after August 31, 2012 (pending final decision by Governing Council). Students already in the program will be allowed to complete it.

Faculty Advisors

Economics (416-978-5691)
F. Reid, B.A., M.Sc., Ph.D.

History (905-828-3940)
L.S. MacDowell, B.A., M.Sc., Ph.D.

Sociology (905-569-4367)
J.B. Kervin, B.A., Ph.D.

Student Advisor

Economics
R. Mack
Room 127A, Kaneff Bldg.
905-828-5404
ruby.mack@utoronto.ca

The Human Resources and Industrial Relations program is designed to prepare students for careers in either human resources management or labour relations. The program also provides a foundation for completion of the Certified Human Resources Professional (CHRP) designation offered by the Human Resources Professionals Association, and for further study in the area, such as the Master of Industrial Relations and Human Resources degree offered at the St. George campus. The need for professional training in the field has grown over time as the employment relationship has increased in complexity due to factors such as the increasing diversity of the labour force and new legislative initiatives in employment and human rights. The broad based study of the employment relationship provided in the Human Resources and Industrial Relations program prepares students for professional careers by providing a theoretical framework, analytical and quantitative skills, and a thorough knowledge of current developments in the field. Students are able to undertake a multi-disciplinary study of the employment relationship, examining it from the perspectives of Economics, History, Sociology and Organizational Theory. This training is intended to provide the basis for life long learning about emerging issues in the field of employment.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT Anthropology (page 41)
ECO Economics (page 143)
ERI Erindale Courses (page 169)
HIS History (page 207)
SOC Sociology (page 296)

Major Program ERMAJ1882 Human Resources and Industrial Relations (Arts)

The Human Resources and Industrial Relations (ERMAJ1882) program is under review and will not be available for entry after August 31, 2012 (pending final decision by Governing Council). Students already in the program will be allowed to complete it.

A minimum of 6.5 credits are required including at least 2.0 at the 300 level.

Limited Enrolment – Enrolment in this program is limited to students who have completed at least 4.0 credits, have a cumulative GPA of at least 2.0 and have already completed 1.5 credits from among the following courses: ANT350H5; ECO100Y5,244Y5,261H5/ 361Y5/ (343H5,344H5); ERI260H5; SOC100H5

1. ECO100Y5,244Y5,261H5/ 361Y5/ (343H5,344H5); ERI260H5,360H5; SOC100H5,227H5
2. The remaining 1.5 or 2.0 credits selected from the following list: ECO370Y5/ 381H5; HIS313H5,314H5; SOC236H5,263H5,338H5,341H5,361H5,362H5,412H5

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

International Affairs (HBA)

Faculty Advisor

Professor G. Anderson (Economics)
anderson@chass.utoronto.ca

Student Advisor

R. Mack
905-828-5404
ruby.mack@utoronto.ca

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ECO Economics (page 143)
FRE French (page 184)
FSL French (page 184)
GER Language Studies (page 235)
GGR Geography (page 196)
HIS History (page 207)
ITA Italian (page 230)
MAT Mathematics (page 256)
POL Political Science (page 275)

Specialist Program ERSPE1384 International Affairs (Arts)

This program provides background and training in the combination of analytical and linguistic skills demanded of individuals who wish to work in the context of an increasingly globalized economy. A combination of courses are offered that allow the student to acquire full interactive capability in a chosen language, while simultaneously studying institutional and theoretical issues pertaining to political, commercial and economic relationships between nations. Within an honours degree, 15.0 credits are required, at least 1.0 of which must be at the 400 level.

Limited Enrolment – Enrolment in this program is limited to students who have 63% in ECO100Y5; one introductory language course and a CGPA of 2.50.

11.0 credits are required from the following list: ECO100Y5; MAT133Y5/ 134Y5/ 135Y5; ECO200Y5/ 204Y5/ 206Y5, 202Y5/ 208Y5/ 209Y5,220Y5/ 227Y5,364H5,365H5; POL208Y5; 4.0 language credits in the same discipline.

3.0 from: GGR325H5,345H5,365H5;HIS311Y5/ HIS311H5; POL302Y5, 327Y5,340Y5,343Y5

1.0 from: ECO456H5/ 460H5/ 461H5/ 463H5; a 400-level language course. The following 400-level St. George courses will also fulfill this requirement: ECO419H1, 459H1; POL454Y1 or a 400-level course from a cognate discipline approved by the faculty advisor.

Language components available at U of T Mississauga:

French: FSL(205H5,206H5)/ 205Y5, FSL(305H5,306H5)/ 305Y5, 385H5/ 405H5, 386H5/ 406H5 or 366H5, FRE383H5

German: GER100Y5, 200Y5, 300Y5, 330H5, 370H5 (300/400 level German courses not always available at UTM.)

Italian: ITA100Y5, 200Y5, 231H5, 232H5, 313Y5, 315Y5, 350Y5, 437H5, 436Y5, 420Y5

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

Italian (HBA)

Professors

S. Bancheri, B.A., M.A., Ph.D.
M. Lettieri, B.A., M.A., Ph.D.

Adjunct Professor

A. Mollica (Brock University)

Status Only Professor

C. Besnard (York University)

Chair and Faculty Advisor

Professor M. Lettieri
Room 233B, North Building

Associate Chair

Professor Emmanuel Nikiema
Room 244, North Building

Departmental Assistant

Joanna Szewczyk
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Academic Counsellor

Rosa Ciantar
Room 235 North Building
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The Italian program at U of T Mississauga is designed to provide a comprehensive study of the many facets of Italy, a country whose culture continues to be a significant force in the shaping of Western civilization. Literature and cinema courses are organized around major figures, movements or genres, as well as Italian life and civilization. Language is studied from all points of view – practical, stylistic, philological and historical – at all levels of instruction.

In Canada, the strong presence of large Italian communities provides a social, intellectual and practical incentive for the study of Italian.

Students are free to design for themselves the program of study best suited to their interests and needs, and they can choose from available courses at U of T Mississauga and at the St. George campus. There are conditions, however, which must be satisfied:

1. for specialization in Italian alone or in Language Teaching and Learning;
2. for a major in Italian alone or Italian and French;
3. for a major in Language Teaching and Learning in Italian alone or Italian and French;
4. for a minor in Italian alone or in Cinema Studies;
5. for a specialist in International Affairs, which requires a language component.

Knowledge of another language and culture is regarded favourably by other disciplines (i.e. Art History, Art and Art History) and is frequently required for graduate-level studies.

Graduates in Italian are in demand and will continue to be. U of T Mississauga's Italian graduates have moved on to advanced studies and to careers in business, journalism, teaching, translation, transportation, foreign affairs, government, social services, trade, law, and other fields where skills in Italian are a necessity.

In case of uncertainty with regard to the program of study, course content, graduate studies requirements, or any related matter, students are strongly advised to consult the Faculty Advisor for Italian at U of T Mississauga.

Courses offered every year: ITA100Y5, 200Y5, 350Y5

Study in Florence Program

The Study in Florence program is an intensive nine-week experience (October to December) that allows students to study at the University of Florence while simultaneously obtaining up to 3.0 University of Toronto Mississauga credits. Classes are taught in tandem by faculty from the Department of Language Studies, U of T Mississauga, and the University of Florence. This unique opportunity also includes:

- an experiential learning component which further enhances cultural competency and adds context to one's studies
- a communication agreement, wherein students commit to speaking exclusively in Italian for the duration of the program

For further information regarding the program and how to apply, please contact the Department of Language Studies.

Note: Italian is available at U of T Mississauga as a teachable subject in the Concurrent Teacher Education Program.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

- FRE French (page 184)
- ITA Italian (page 230)
- LTL Italian (page 230)

Specialist Program ERSPE1092 Language Teaching and Learning: French and Italian (Arts)

For an Honours degree, 14.0 credits are required. The program must include a minimum of 4.0 300/400 level credits (2.0 in French and 2.0 in Italian), 1.0 credit at the 400 level (either in French or Italian).

Students who have completed FRE225Y5 will replace LTL227H5 with a 0.5 credit in ITA.

French

7.0 credits are required.

Limited Enrolment – A final grade of 63% is required in FRE180H5 and FRE181H5 (or equivalent).

First Year: FRE180H5 and FRE181H5 (minimum grade of 63% is required) or equivalent. Students exempted from these courses may replace them with a higher level 1.0 credit in FRE.

Higher Years:

1. FRE280Y5 (or equivalent), FRE225Y5, FRE240Y5, FRE272Y5
2. FRE382H5, FRE383H5.
3. 1.0 credit to be chosen among the **FRE** courses in Teaching and Learning (FRE325H5, 345H5, 352H5, 353H5, 355H5)

Italian

7.0 credits are required.

1. ITA200Y5
2. ITA350Y5
3. 1.0 credit from ITA354Y5, 371Y5
4. LTL227H5, ITA437H5
5. 2.0 credits from ITA375Y5, ITA376H5, ITA493H5, ITA494H5
6. 1.0 credit in Italian literature

Please note FRE225Y5 is an exclusion to LTL227H5. Students can replace LTL227H5 with an upper level LTL course to be counted towards Italian.

Specialist Program ERSPE2524 Italian (Arts)

Within an Honours degree, 10.0 credits are required including at least 3.0 300/400 level full courses and 1.0 400 level credit.

1. ITA100Y5. Students exempted from this course may replace it with a higher level ITA 1.0 credit.
2. ITA200Y5
3. ITA350Y5
4. 1.0 credit from ITA354Y5, 371Y5
5. ITA231H5, ITA232H5, ITA420Y5
6. 4.0 additional credits in ITA. At least 3.0 credits must be in Italian literature.

Limited Enrolment – Completion of 4.0 credits and ITA100Y5 is required.

Major Program ERMAJ1249 Language Teaching and Learning: Italian (Arts)

8.0 credits are required including at least 2.0 credits at the 300/400 level.

1. ITA100Y5/ 101Y5. Students exempted from this course may replace it with a higher level 1.0 credit in ITA.
2. ITA200Y5/ ITA201Y5
3. ITA350Y5
4. 1.0 credit from ITA354Y5, 371Y5
5. LTL227H5, ITA437H5
6. 1.0 credit in Italian literature
7. 1.5 credits from ITA375Y5, 376H5, ITA493H5, ITA494H5
8. 0.5 credit from LTL380H5, LTL417H5, LTL456H5, LTL488H5

Major Program ERMAJ2524 Italian (Arts)

8.0 credits are required including at least 2.0 300/400 level credits.

1. ITA100Y5/ 101Y5. Students exempted from this course may replace it with a higher level 1.0 credit in ITA.
2. ITA200Y5/ ITA201Y5
3. ITA350Y5
4. 1.0 credit from ITA354Y5, 371Y5
5. ITA231H5, ITA232H5, ITA420Y5

6. 2.0 additional credits in ITA, excluding ITA 100Y5/ 101H5/ 102H5. Courses not used in #1 above may be included.
At least 1.0 credit must be in Italian literature (excluding those in item 3 above).

Minor Program ERMIN2524 Italian (Arts)

4.0 ITA credits are required including at least 1.0 300/400 level credit and 1.0 credit in literature.

Recommended progression of language courses is as follows: ITA100Y5, ITA200Y5 and ITA350Y5.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses**ITA100Y5 Italian for Beginners (HUM)**

An introduction to the Italian language for students of non-Italian linguistic background. Essentials of grammar, oral practice, language laboratory, translation. [72L, 24P]

Exclusion: Previous schooling in Italian, ITA100Y1, 101H5/ 102HT or permission of department.

ITA101Y5 Intermediate Italian I (HUM)

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/ 4th year level). Introduction to linguistic analysis of literary prose.

Exclusion: OAC Italian/ ITA100Y5/ 101H5/ 102H5 or higher/ITA101Y1 or higher.

ITA200Y5 Continuing Italian (HUM)

This course consists of a thorough review of grammatical structures and is designed to improve the students' self-expressiveness in Italian. Selections from contemporary authors and passages dealing with present-day issues are used as a basis for discussion in Italian. For students whose background in Italian is solely academic. [48L, 24P]

Prerequisite: ITA102H/100Y5 or Grade 12 Italian

ITA201Y5 Intermediate Italian II (HUM)

A review of Italian grammar, readings of Italian authors and one hour of oral practice.

Exclusion: ITA100Y5/ 200Y5/ 251Y1 or higher.

Prerequisite: ITA101Y5 or permission of the department.

ITA221Y5 Forms of Modern Italian Literature (HUM)

An introduction to twentieth-century Italian literature through a study of representative "novelle," shorter works of fiction, plays and poetry. Selections will include writings by Moravia, Calvino and others. [48L]

Exclusion: ITA220Y5

Prerequisite: Grade 12 Italian or equivalent/ITA100Y5/ITA101Y5

Recommended Preparation: Good knowledge of Italian.

LTL227H5 Introduction to the Theory in Second Language Acquisition (HUM)

(Offered in English) This course examines how languages are learned and students are introduced to theories of second language acquisition.

Exclusion: LTL225Y5, FRE225Y5

ITA231H5 Italian Literature Through the Ages I (HUM)

A survey of the shorter forms of Italian literature from the Middle Ages to the Renaissance. Emphasis will be given to poems and "novelle", but theoretical pieces and short plays of recognized literary significance will also be examined. [24L]

Exclusion: ITA229Y5, 230Y5

Corequisite: ITA200Y5

ITA232H5 Italian Literature Through the Ages II (HUM)

A survey of the shorter forms of Italian literature from the Baroque period to present times. Emphasis will be given to poems and "novelle", but theoretical pieces and short plays of recognized literary significance will also be examined. [24L]

Exclusion: ITA229Y5, 230Y5

Corequisite: ITA200Y5

ITA236H5 Topics in Italian Civilization I (HUM)

(Offered in English) The course will cover the period between 1815 to 1960 and discuss, through a selection of short stories, novels, sociological and historical documents, articles from newspapers, magazines as well as the Internet, various aspects of modern Italian civilization such as fascism, the Resistance, the constitution and political ideologies, the relation between State and the Church, the question of the North vs. the South, the land reform. [24L]

This course does not count towards any Italian programs. It will count only as an elective.

Exclusion: ITA234Y5, ITA235Y5, ITA237H5

ITA237H5 Topics in Italian Civilization I (HUM)

(Offered in English) The course will cover the period between 1815 to 1960 and discuss through a selection of short stories, novels, sociological and historical documents, articles from newspapers, magazines as well as the Internet various aspects of modern Italian civilization such as fascism, the Resistance, the constitution and political ideologies, the relation between State and the Church, the question of the North vs. the South, the land reform. [24L]

Exclusion: ITA234Y5, ITA235Y5, ITA236H5

Prerequisite: Grade 12 Italian or equivalent/ITA102H5

ITA238H5 Topics in Italian Civilization II (HUM)

(Offered in English) The course will cover the period between 1960 to present days through a selection of short stories, novels, sociological and historical documents, articles from newspapers, magazines as well as the Internet various aspects of modern Italian civilization such as industrialization, the mafia, language and mass-media, immigration and emigration, the generation of '68, terrorism, women's liberation and family issue in general. [24L] **This course does not count towards any Italian programs. It will count only as an elective.**

Exclusion: ITA234Y5, ITA235Y5, ITA239H5

Prerequisite: ITA236H5 or ITA237H5

ITA239H5 Topics in Italian Civilization II (HUM)

(Offered in English) The course will cover the period between 1960 to present days through a selection of short stories, novels, sociological and historical documents, articles from newspapers, magazines as well as the Internet various aspects of modern Italian civilization such as industrialization, the mafia, language and mass-media, immigration and emigration, the generation of '68, terrorism, women's liberation and family issue in general. [24L]

Exclusion: ITA234Y5, ITA235Y5, ITA238H5

Prerequisite: ITA236H5 or ITA237H5

ITA242Y5 Classics of Italian Cinema of the Sixties and Seventies (HUM)

(Offered in English) An analysis of some of the most significant works of modern Italian film makers. Analysis and discussion will take place in English. [48L, 48P] **This course does not count towards any Italian programs. It will count only as an elective.**

Exclusion: ITA240Y5/ 243Y5

ITA243Y5 Classics of Italian Cinema of the Sixties and Seventies (HUM)

(Offered in English) An analysis of some of the most significant works of modern Italian film makers. Analysis and discussion will take place in English. [48L, 48P]

Exclusion: ITA240Y5/ 242Y5

Prerequisite: Grade 12 Italian or equivalent/ITA100Y5

ITA246Y5 Contemporary Italian Cinema (HUM)

(Offered in English) A study of Italian cinema from 1975 to the present. Stress will be laid on the production of the last years which features the work of a new generation of filmmakers. Authors included: Bellocchio, Moretti, Salvatores, Soldini, Crialesse, Muccino and others. **This course does not count towards any Italian programs. It will count only as an elective.** [48L, 48P]

Exclusion: ITA247Y5

ITA247Y5 Contemporary Italian Cinema (HUM)

(Offered in English) A study of Italian cinema from 1975 to the present. Stress will be laid on the production of the last years which features the work of a new generation of filmmakers. Authors included: Bellocchio, Moretti, Salvatores, Soldini, Crialesse, Muccino and others. **Please note that the course will be taught in Italian when offered at the University of Florence** [48L, 48P]

Exclusion: ITA246Y5

ITA255Y5 The Italian Canadian Experience (HUM)

(Offered in English) An historically defined portrait of Italian immigrants and their descendents through a study of significant writings by and about them in literature and theatre. Readings to include: Nino Ricci, *Lives of the Saints*; F. Paci, *Black Madonna*; *Curaggia. Writing by Women of Italian Descent*, ed. N.A. Ciatu et al.; M. Micone, *Two Plays*; *The Anthology of Italian Canadian Writing*, ed. J. Pivato; *If one were to write a history... Selected Writings* by R.F. Harney, ed. P. Ancil and B. Ramirez. **This course does not count towards any Italian programs. It will count only as an elective.** [24L, 24T]

ITA256Y5 The Italian Canadian Experience (HUM)

(Offered in English) An historically defined portrait of Italian immigrants and their descendants through a study of significant writings by and about them in literature and theatre. Readings to include: Nico Ricci, *Lives of the Saints*; F. Paci, *Black Madonna*; *Curaggia. Writing by Women of Italian Descent*, ed. N.A. Ciatu et al.; M. Micone, *Two Plays*; *The Anthology of Italian Canadian Writing*, ed. J. Pivato; *If one were to write a history... Selected Writings* by R.F. Harney, ed. P. Ancil and B. Ramirez. [24L, 24T]

Prerequisite: ITA100Y5/ 101Y5/ 102H5

ITA299Y5 Research Opportunity Program (HUM)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

ITA306H5 Modern Italian Literature and Cinema (HUM)

(Offered in English) A study of various novels, short stories and plays and of their adaptation into film. Among the authors to be studied are Verga, Moravia, Bassani and De Filippo and among the film directors Visconti, Scola, Bertolucci and De Sica. [24L] *Note: Extra hours will be scheduled for viewing of films.* **This course does not count towards any Italian programs. It will count only as an elective.**

Exclusion: ITA307H5

ITA307H5 Modern Italian Literature and Cinema (HUM)

(Offered in English) A study of various novels, short stories and plays and of their adaptation into film. Among the authors to be studied are Verga, Moravia, Bassani and De Filippo and among the film directors Visconti, Scola, Bertolucci and De Sica. [24L] *Note: Extra hours will be scheduled for viewing of films.*

Exclusion: ITA306H5

Prerequisite: ITA200Y5

ITA312Y5 Italian Theatre: Text and Performance (HUM)

A study of representative plays (comic, tragic, religious, melodrama) from the Middle Ages to Alfieri, with a consideration of staging and acting techniques mainly through the production of a specific play. [24L, 48P, 24T]

This course does not count towards any Italian programs. It will count only as an elective.

Exclusion: ITA313Y5

Recommended Preparation: A good knowledge of Italian

ITA313Y5 Italian Theatre: Text and Performance (HUM)

A study of representative plays (comic, tragic, religious, melodrama) from the Middle Ages to Alfieri, with a consideration of staging and acting techniques mainly through the production of a specific play. [24L, 48P, 24T].

Exclusion: ITA312Y5

Prerequisite: ITA200Y5/P.I.

Recommended Preparation: A good knowledge of Italian.

ITA314Y5 Italian Theatre and Performance (HUM)

A study of Italian dramas (comedy, tragedy, opera) from the Nineteenth and Twentieth Centuries with a consideration of staging and acting techniques mainly through the production of a specific play or operatic piece. [24L, 48P, 24T]. **This course does not count towards any Italian programs. It will count only as an elective.**

Exclusion: ITA315Y5

Recommended Preparation: A good knowledge of Italian

ITA315Y5 Italian Theatre and Performance (HUM)

A study of Italian dramas (comedy, tragedy, opera) from the Nineteenth and Twentieth Centuries with a consideration of staging and acting techniques mainly through the production of a specific play or operatic piece. [24L, 48P, 24T].

Exclusion: ITA314Y5

Prerequisite: ITA200Y5/P.I.

Recommended Preparation: A good knowledge of Italian.

ITA342Y5 Post War Italian Cinema (HUM)

(Offered in English) An examination of the different trends in Italian cinema of post war Italy. [48L, 48P] **This course does not count towards any Italian programs. It will count only as an elective.**

Exclusion: ITA343Y5

ITA343Y5 Post War Italian Cinema (HUM)

(Offered in English) An examination of the different trends in Italian cinema of post war Italy. [48L, 48P]

Exclusion: ITA342Y5

Prerequisite: ITA200Y5

ITA350Y5 Language Practice (HUM)

Intermediate - advanced level language course designed to give the student oral and written proficiency. Selected readings on questions of topical interest, discussions, compositions. [48L, 24P]

Prerequisite: ITA200Y5

ITA354Y5 Word and Image: Writing with Pen and Camera (HUM)

A course designed to promote self-expression in Italian by involving students in writing shorter pieces in fiction and non-fiction and teaching the structure of the language in relation to the writing activity. Genres to be practised: the personal sketch, fable, apologue, short story, brief documentaries, and short plays. One of the creative pieces will be a screenplay which will be turned into a short film. Selected writings will be collected and published in a booklet. [24L, 52 P, 24S] **Course taught in English and Italian; all assignments in Italian.**

Prerequisite: ITA 200Y/P.I.

ITA370H5 Power and Success in the Renaissance (HUM)

Concepts of Power and strategies for success in Machiavelli's *Principe* and Castiglione's *Libro del Cortegiano*. Politics, art and the pen as instruments of distinction in Lorenzo de' Medici and Michelangelo. [12L, 12T]

Exclusion: ITA324Y5, 370Y5

Prerequisite: ITA200Y5/ 350Y5/P.I.

ITA371Y5 Translation (HUM)

Techniques and theories of translation, using contemporary texts (from mass media, literature and business) containing a variety of linguistic codes. Attention will be given to linguistic structures, semantic fields and current language usage. Some simultaneous translation. [48L, 24P]

Prerequisite: ITA200Y5/P.I.

ITA375Y5 Second Language Teaching Methodology (HUM)

(Offered in English) This course connects Second Language Acquisition theory and research to teaching practice. Students will gain hands-on experience in the development and evaluation of Italian second language teaching materials for the communicative classroom environment. Special emphasis will be placed on the teaching of the four skills (speaking, reading, listening, and writing) and grammar instruction. [24L, 24T]

Exclusion: ITA374H5

Prerequisite: ITA100Y5

Recommended Preparation: LTL227H5

ITA376H5 Recreational Linguistics: Brain Game, Brain Teasers (HUM)

Recreational linguistics embraces all types of word games: acrostics, mesostichs, search-a-word, crossword puzzles, acronyms, riddles, intruders, rebus, etc. To these will be added the use of proverbs, idiomatic expressions and the use of humour. Examples of ludolinguistica will be used to teach and expand basic vocabulary. Students will be encouraged to create their own activities to emphasize the language skills and will prepare activities which promote communication in and outside the classroom scene.

(Taught in English. Open to all students.)

Recommended Preparation: ITA200Y5 for Italian Specialists, Majors and Minors.

ITA390Y5 Modern Humanity in Crisis (HUM)

Masterpieces of modern Italian fiction analyzed against the background of modern-day Italy. Works to be read include novels by Svevo, Vittorini, Silone, Moravia, Pavese. [48L]

Prerequisite: ITA200Y5

ITA397Y5 The Individual and Society in 19th Century Italian Literature (HUM)

Examination of personal and social themes in the poetry of the Romantics, especially Leopardi, and in the novels of Manzoni, Verga and others. [48L]

Exclusion: ITA395H5, 398Y5

Prerequisite: ITA200Y5

ITA399Y5 Research Opportunity Program (HUM)

This course provides senior undergraduate students who have developed some knowledge of research methods used in the discipline of Italian studies to work in the research project of a U of T Mississauga professor for course credit. Enrolled students have the opportunity to become involved in original research, develop their research skills, and share in the excitement and discovery of acquiring new knowledge. Project descriptions for participating faculty members for the following summer and fall/winter sessions are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: ITA200Y5, ITA231H5 and 232H5.

ITA420Y5 Dante's Divina Commedia (HUM)

(Formerly ITA321Y5) An introduction to the work and thought of Dante, with special emphasis on the *Inferno* and *Purgatorio*. [48L]

Prerequisite: ITA200Y5

ITA434H5 Literature of Anxiety: From the Middle Ages to 18th Century (HUM)

A study of the major poetic currents and poets from the Middle Ages to 18th century. [24L]

Prerequisite: ITA350Y5

ITA435H5 Literature of Anxiety: 19th-20th Century Italian Poetry (HUM)

A study of the major poetic currents and poets of the last century from the Scapigliati to Pasolini and beyond. [24L]

Prerequisite: ITA350Y5

ITA436Y5 The 18th Century in Italy (HUM)

An investigation of the intellectual trends and literary forms in Italy from the pre-enlightenment to Romanticism. Readings from the works of Vico, Muratori, Gravina, Metastasio, Rolli, Parini, Verri, Beccaria, Goldoni, Alfieri and others. [48L]

Prerequisite: ITA200Y5

ITA437H5 Topics in the History of the Italian Language (HUM)

The linguistic transition from Latin to Italian, the "Questione della lingua," developments in the 18th and 19th centuries, contemporary trends. Reading and linguistic analysis of representative texts. [24L]

Prerequisite: ITA200Y5

Recommended Preparation: Knowledge of Medieval/Renaissance and modern Italian literary culture.

ITA490Y5 Independent Italian Theatre Studies I (HUM)

A scholarly project, supervised by a member of the Italian department, on an aspect or figure of Italian theatre of the nineteenth or twentieth centuries. Performing in a play is also a requirement. [24L, 48P, 24T]

Exclusion: ITA495Y5 in the same year

Prerequisite: ITA314Y5/ 315Y5; Written permission of the Chair in Italian and of the instructor teaching the course.

ITA491H5 Independent Studies in Italian (HUM)

A project supervised by a member of the Italian Department on a topic of Italian language, literature or linguistics.

Prerequisite: ITA350Y5 or equivalent; Written permission of the Chair in Italian and of the instructor teaching the course.

ITA491Y5 Independent Studies in Italian (HUM)

A project supervised by a member of the Italian Department on a topic of Italian language, literature or linguistics.

Prerequisite: ITA350Y5 or equivalent; Written permission of the Chair in Italian and of the instructor teaching the course.

ITA492H5 Independent Studies in Italian (HUM)

A project supervised by a member of the Italian Department on a topic of Italian language, literature or linguistics.

Prerequisite: ITA350Y5 or equivalent; Written permission of the Chair in Italian and of the instructor teaching the course.

ITA493H5 Special Topics in Italian Language Teaching and Learning: The Language Classroom (HUM)

An individual study in which students integrate and apply their understanding of Italian Studies and Language Teaching & Learning by observing, actively participating in, and reflecting on the teaching and learning process in an Italian language course, under the supervision of an experienced instructor/mentor. Together with the mentor, the student will develop and implement strategies, based on current pedagogical findings, for the successful execution of lesson plans and grammatical and communicative activities in a foreign language classroom.

Prerequisite: ITA350Y5

ITA494H5 Special Topics in Italian Language Teaching and Learning: Theatre, Drama, and Culture (HUM)

An individual study in which students integrate and apply their understanding of Italian Studies and Language Teaching & Learning by observing, actively participating in, and reflecting on the teaching and learning process in an Italian theatre course, under the supervision of an experienced instructor/mentor. Together with the mentor, students will develop and implement strategies, based on current pedagogical findings, for the successful execution of language-centered drama activities (ranging from improvisation to full-length plays) in the classroom.

Prerequisite: ITA350Y5

ITA495Y5 Independent Italian Theatre Studies II (HUM)

A scholarly project, supervised by a member of the Italian department, on an aspect or figure of Italian theatre from its origins to Goldoni. Performing in a play is also a requirement.

Exclusion: ITA490Y5 in the same year

Prerequisite: ITA312Y5/ 313Y5; Written permission of the Chair in Italian and of the instructor teaching the course.

Language Studies**Professors**

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Students without pre- and co-requisites or written permission of the instructor, or those who misrepresent their knowledge of a language, can be de-registered from courses at any time.

List of Courses**GER100Y5 Introductory German I (HUM)**

An intensive language course for students with no previous knowledge of German. Practice in comprehension, reading, writing and speaking. This is a language course. [72L, 24P]

Exclusion: Grade 12(U) German (LWG4U/LWA4U), or equivalent/ GER101H5

LAT100Y5 Introductory Latin (HUM)

An intensive introduction to Latin for students who have no knowledge of the language. This course will aid in the preparation for the reading of Latin literature. [72L, 24P]

Exclusion: LAT150H5, LAT151H5, LAT100Y1, LAT101H1, LAT102H1. Students who have studied Latin previously must obtain permission from the Department of Language Studies before enrolling.

CHI100Y5 Modern Standard Chinese I (HUM)

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. [72L, 24P]

Exclusion: CHI101Y5/ EAS100Y1/ EAS101Y1 or higher

SPA100Y5 Spanish for Beginners (HUM)

Introduction to the Spanish language for beginning students; overview of basic grammatical structures, development of vocabulary and oral and written expression. [72L, 24P]

Exclusion: SPA100Y1/ Grade 12 Spanish or equivalent knowledge of Spanish

GER101H5 Introductory German I: Continuation (HUM)

An intensive language course for students who have studied German, but who have not quite attained Grade 12 level. Practice in comprehension, speaking, reading, and writing. This course is the spring term of GER100Y5. This is a language course. [36L]

Exclusion: Grade 12(U) German (LWG4U/LWA4U), or equivalent /GER100Y5

CHI101Y5 Modern Chinese I for Students with Prior Background (HUM)

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. [72L, 24P]

Exclusion: CHI100Y5, EAS101Y1, EAS100Y1

GER150H5 German Cultural Studies I (HUM)

How did Germany come to be a political and economic powerhouse in the European Union? Does cultural and intellectual life in contemporary Germany reflect both eastern and western traditions? How can we define this "Germany" today, as it becomes increasingly multicultural? These and other broad questions are examined in their cultural, social and intellectual history from the Middle Ages to the present. This course is taught in English and is open to all students. [24L]

LAT200Y5 Intermediate Latin (HUM)

Continuation of LAT100Y5. Reading of selections of Latin prose works with systematic language study. [48L, 24T]

Exclusion: LAT201H1, LAT202H1

Prerequisite: LAT100Y5. Students who have completed Grade 12 Latin must obtain permission from the department before enrolling.

GER200Y5 Introductory German II (HUM)

Continuation of work done in GER100Y5/ 101H5.

Expansion of grammar and vocabulary, practice in comprehension, translation, composition, and conversation. This is a language course. [96L]

Exclusion: GER200H1/ 201H1, 202Y5

Prerequisite: Grade 12(U) German, (LWG4U/LWA4U) or equivalent/ GER100Y5/ 101H5

This course is not open to fluent speakers of German.

CHI200Y5 Modern Standard Chinese II (HUM)

As a continuation of Modern Standard Chinese I. Those who are suitable for this course but have not studied some content in CHI100Y5, especially pinyin, must make an effort to catch up by themselves. [72L, 24P]

Exclusion: EAS200Y1

Prerequisite: CHI100Y1 (minimum grade 67%)

CHI201Y5 Modern Chinese II for Students with Prior Background (HUM)

A continuation of EAS101Y1. Those who are suitable for this course but have not studied some content of CHI101Y5, especially pinyin, must make an effort to catch up by themselves. [72L, 24P]

Exclusion: CHI200Y5, EAS200Y1, EAS201Y1, EAS290Y1, LGGB01H3F, LGGB02H3S, or those with near native fluency in any Chinese dialect.

Prerequisite: CHI101Y5

GER204H5 German Literature in Translation (HUM)

A survey of selected themes and topics in German literature from the eighteenth century to the present. Students should check with the department and/or instructor regarding the course focus in the term it is being offered. [24L]

GER205H5 German Literature I (HUM)

(Formerly GER275H5: Introduction to German Literature) An introduction to the study of German literature and literary concepts. Texts are in the original German. Required for Majors. This is a literature course. [36L]

Exclusion: GER204Y5, 204H1, 275H5

Prerequisite: Grade 12(U) German (LWG4U/LWA4U), or equivalent/ GER100Y5/ 101H5

PRS210Y5 Elementary Persian (HUM)

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 and prepare for the reading of Persian literature.

Exclusion: PRS210H5, PRS211H5, NMC260Y1 or higher. Native speakers.

ARA211Y5 Introduction to Egyptian Colloquial Arabic (HUM)

The course will focus on learning to communicate in everyday situation using simple grammatical structures through virtual situations and role playing. The written texts will be transliterated into English figures at the first part of the course. The second part of the course focuses on sounds and forms of the Arabic Alphabet, creating simple words and reading simple phrases and sentences.

Exclusion: ARA212Y5. Native speakers.

ARA212Y5 Elementary Arabic (HUM)

Introduction to the grammar and basic vocabulary of standard or literary Arabic, the one language written and read throughout the Arab world. [72L, 24P]

Exclusion: ARA210H5, ARA211H5, NMC210Y1/ NML210Y1 or higher/Native users.

HIN212Y5 Introduction to Hindi (HUM)

Intensive introduction to phonology, grammar, syntax of the modern Hindi language; emphasis on basic writing and reading. [72L, 24P]

Exclusion: NEW212Y1 or higher/SAS 202Y1 or higher/Native users

SPA220Y5 Intermediate Spanish (HUM)

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. [48L, 24P]

Exclusion: SPA220Y1, SPA319Y1 or higher

Prerequisite: Grade 12 U Spanish/SPA100Y1/ SPA100Y5

SPA259H5 Introduction to Hispanic Culture (HUM)

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.

Exclusion: SPA323Y1, SPA323

Prerequisite: SPA100Y5

Corequisite: SPA220Y5

SAN291Y5 Introductory Sanskrit (HUM)

This introductory course looks at mastering the reading and writing of the Devanagari script and studying the grammar of the classical Sanskrit language. There will be close analytical reading of simple Sanskrit texts, which are used to reinforce the grammatical study done in the first half of this course. The aim is to bring students to the point where they are comfortably able, with the help of a dictionary, to read simple, narrative Sanskrit. Texts in Sanskrit. [72L, 24P]

Exclusion: SAN390H5, SAN391H5, RLG260Y1

GER299Y5 Research Opportunity Program (HUM)

This courses provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

GER300Y5 Intermediate German I (HUM)

(Formerly GER301H5) German at the intermediate level: extension of vocabulary, specific problems of grammar, practice in translation, essay-writing, reading and conversation. Students taking this course and intending to major in German must take the equivalent of a full literature course (GER325H5/ 329H5/ 335H5/ 355H5) as well. The Department reserves the right to place students in the appropriate course in the series GER200Y5, 300Y5, 400Y5. This is a language course. [72L]

Exclusion: GER300H5, 301H5

Prerequisite: GER200Y5/ 201H1/ 202Y5

CHI301Y5 Advanced Chinese (HUM)

This intermediate-level language course is a continuation of CHI200Y5 and CHI201Y5. It is not open to native speakers of Chinese or to students who know Mandarin or any Chinese dialect because of their family backgrounds. Interviews may be required of all students who wish to enroll in the course. [72L, 24P]

Exclusion: EAS300Y1, 290Y1.

Prerequisite: CHI200Y5/ CHI201Y5/ EAS201Y1

GER303H5 German Current Events Through Print and Online News Media (HUM)

The study of important political, social, and cultural issues in contemporary Germany on the basis of print and online sources is studied. Topics are typically selected by the instructor with the input of students. The course provides further refinement of writing style, reading strategies, vocabulary, and conversation skills. [36L]

Prerequisite: GER300Y5

Corequisite: GER300Y5 with permission of department

GER305H5 German Literature II (HUM)

(Formerly GER304H5: Modern German Literature) Building on the work of GER205H5, this course explores texts from the 18th to the 20th century. This course is required for Majors. [24L]

Exclusion: GER304H5

Prerequisite: GER100Y5, 205H5/ 275H5

CHI309Y5 Introduction to Confucianism (HUM)

(Offered in Chinese) The course discusses both Confucianism in China from the ancient to the contemporary era, but also introduces Confucianism in Korea and South Asian.

Exclusion: EAS241H1

Prerequisite: CHI200Y5/ CHI201Y5

PRS310Y5 Intermediate Persian (HUM)

Reading, grammatical analysis, and translation of representative samples of contemporary Persian prose of intermediate difficulty. The reading materials are selected from a wide range of sources in order to ensure balanced, yet comprehensive exposure to the different usage of the language.

Exclusion: PRS310H5, PRS311H5, NMC360Y1. Native speakers.

Prerequisite: PRS210H5, PRS211H5/ PRS210Y5

ARA312Y5 Intermediate Arabic (HUM)

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. [72L, 24P]

Exclusion: Native users/NMC310Y1/ NML310Y1

Prerequisite: ARA211H5/ ARA212Y5

HIN312Y5 Intermediate Hindi (HUM)

Continuation of HIN212Y5. This course will focus on further development of grammatical structures. Includes an introduction to Hindi readings and texts. [72L, 24P]

Exclusion: SAS302Y1/ NEW312Y1

Prerequisite: HIN212Y5/ P.I.

SPA320Y5 Advanced Spanish (HUM)

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. [48L, 24T]

Exclusion: SPA320Y1, SPA319Y1

Prerequisite: SPA220Y5

GER320H5 Topics in German Literature (HUM)

Topic, genre, period, and author studies. This course may be repeated for credit with different content. [24L]

Prerequisite: GER205H5, 305H5

SPA323H5 Business Spanish (HUM)

Practical uses of spoken and written Spanish for business contexts. This course builds on grammar and vocabulary knowledge already acquired at the intermediate level.

Exclusion: SPA323Y1, SPA323H1

Prerequisite: SPA220Y5

GER325H5 19th Century German Literature (HUM)

Introduction to the themes and social and cultural concerns of 19th Century German Literature. [24L]

Prerequisite: GER205H5/ 305H5

GER330H5 Topics in German Cultural Studies (HUM)

This course covers various topics in the culture of German-speaking countries. Such topics may include Berlin, Weimar culture, unification and the politics of memory in postwar Germany. This course may be repeated for credit with new content. [24L]

Prerequisite: GER204H5, GER205H5

Recommended Preparation: GER150H5

GER335H5 German Literature: 1945 to the Present (HUM)

Prose and poetry since World War II, from the Stunde Null through the Restoration, the division of Germany, the political 60's and beyond, the questions of the place of the individual in our world today; works by such writers as Böll, Celan, Dürrenmatt, Frisch, Grass, Handke, Bobrowski, and Wolf. [24L]

Prerequisite: GER205H5, 305H5

GER351H5 German Cinema I (HUM)

Replaced by GER353H5 2005-06.

GER353H5 German National Cinemas (HUM)

An introductory survey of the history of German cinemas from the silent period to the present. Counts toward the Minor in Cinema Studies. Knowledge of German is not required. [24L, 24P - includes screening of films]

Exclusion: GER351H5, 352H5

GER354H5 Topics in German Cinema Studies (HUM)

This course will cover various topics that may include genre studies, a period focus (Weimar, New German Cinema, Nazi Cinema, GDR Cinema), directors (Fritz Lang, Wim Wenders), or themes (transnational cinema, cinema and the city, film and history, film and literature, etc.). This course may be repeated for credit with different content. It counts toward the Minor in Cinema Studies. Knowledge of German is not required. [24L, 24P - includes screening of films]

Exclusion: GER351H5, 352H5

Recommended Preparation: GER353H5

GER355H5 The Theatre of Bertolt Brecht (HUM)

This course will study selected plays by Brecht and investigate his dramatic theories and stage techniques. All readings will be in German. [24L]

Exclusion: GER355Y5

Prerequisite: GER205H5, 305H5/ 275H5, 304H5

GER370H5 Business German I (HUM)

An introduction to the use of German in the business context. Emphasis on oral and written communication. [36L]

Prerequisite: GER200Y5/ 202Y5/ 200H1/ 201H1/

permission of the department

GER371H5 Business German II (HUM)

Intensive development of the communicative skills needed in the context of a German business environment. [36L]

Prerequisite: GER370H5 or permission of the department

SAN392Y5 Intermediate Sanskrit (HUM)

Continuation of Introductory Sanskrit with grammar review and readings at the intermediate level. This course consists of a thorough review of grammatical structures in Sanskrit with reading of simple Sanskrit narrative texts. [72L, 24P]

Exclusion: SAN390H5, SAN391H5/ SAN291Y5, RLG369H1

ARA412Y5 Advanced Arabic (HUM)

Students enrolled in this course are assumed to have active knowledge of the grammar and vocabulary covered in previous levels. After a brief review, the course continues from where ARA312Y5 leaves off. Following the same teaching approach and learning philosophy, the goal of this course is to enable the students to reach a superior level of proficiency in Arabic. To this end, the materials covered are designed to strengthen the students' reading and writing skills, refine and expand their knowledge of sentence structure, morphological patterns, verb system, and enrich their cultural background. The primary method is analysis of sophisticated authentic texts covering a wide range of genres and drawn from different parts of the Arabic speaking world. Although the main focus remains to be on Modern Standard Arabic, texts from the Classical Arabic literary tradition will be introduced incrementally throughout the course. [72L, 24T]

Exclusion: NML410Y1

Prerequisite: ARA312Y5. Students who have not completed ARA312Y5, must obtain permission from the department before enrolling.

GER450H5 Advanced Seminar in German Literature (HUM)

Topic, genre, period, and author studies. This course may be repeated for credit with different content. [24S]

Prerequisite: GER204H5, 205H5, and 0.5 of 300/400 level literature or culture course

GER475H5 Advanced Seminar in German Cultural Studies (HUM)

This course is an in-depth study of different topics in the cultures of German-speaking countries. It may be repeated for credit with different content. [24S]

Prerequisite: GER205H5, 305H5, and 0.5 of 300/400 level literature or culture course.

GER490H5 Independent Study (HUM)

An independent research paper or scholarly project supervised by a member of staff on a literary or cultural topic. Students must submit a written proposal that includes a provisional project or paper title, plan of study and preliminary bibliography. **Open only to students in their fourth year of study.**

Prerequisite: Written permission of the instructor and of the Department to be obtained by May 1st for the Fall Session; by November 1st for the Winter Session.

Language Teaching and Learning: French and Italian (HBA)

Program Advisor

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Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

FRE French (page 184)
ITA Italian (page 230)
LTL Italian (page 230)

Specialist Program ERSPE1092 Language Teaching and Learning: French and Italian (Arts)

For an Honours degree, 14.0 credits are required. The program must include a minimum of 4.0 300/400 level credits (2.0 in French and 2.0 in Italian), 1.0 credit at the 400 level (either in French or Italian).

Students who have completed FRE225Y5 will replace LTL227H5 with a 0.5 credit in ITA.

French

7.0 credits are required.

Limited Enrolment – A final grade of 63% is required in FRE180H5 and FRE181H5 (or equivalent).

First Year: FRE180H5 and FRE181H5 (minimum grade of 63% is required) or equivalent. Students exempted from these courses may replace them with a higher level 1.0 credit in FRE.

Higher Years:

1. FRE280Y5 (or equivalent), FRE225Y5, FRE240Y5, FRE272Y5
2. FRE382H5, FRE383H5.
3. 1.0 credit to be chosen among the **FRE** courses in Teaching and Learning (FRE325H5, 345H5, 352H5, 353H5, 355H5)

Italian

7.0 credits are required.

1. ITA200Y5
2. ITA350Y5
3. 1.0 credit from ITA354Y5, 371Y5
4. LTL227H5, ITA437H5
5. 2.0 credits from ITA375Y5, ITA376H5, ITA493H5, ITA494H5
6. 1.0 credit in Italian literature

Please note FRE225Y5 is an exclusion to LTL227H5. Students can replace LTL227H5 with an upper level LTL course to be counted towards Italian.

Linguistics (HBA)

Professors

A. Kahnemuyipour, B.Sc., M.A., Ph.D.
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The aim of Linguistics is to develop an understanding of how all languages work, and of how languages use disparate means for the same effects. The theme is the unity and the variety of human language. Such a theme subsumes many variations, including grammatical theory and its application to data, language divergence and convergence in space and time, the sociocultural stratification of linguistic systems, normal and pathological language behaviour and language learning. Undergraduate Linguistics is a valuable component of a liberal education, especially in a multi-lingual country such as Canada. It is also valuable as pre-professional training for people interested in teaching English, French or other languages, in areas of rehabilitative medicine such as audiology or speech therapy, in special education, in work with native peoples or with immigrant groups in our society, in religious and missionary work, or in academic disciplines such as Anthropology, Communication, Psychology, Philosophy, literature and language studies, where the contribution of Linguistics is increasingly recognized as important. Students interested in Linguistics should consider the following: CLA201H5, ENG266H5, 367Y5; FRE272Y5, 273Y5, 376H5, 378H5; LTL225Y5, PHL245H5; PSY315H5, 374H5; SOC309Y5.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CLA Classics (page 100)
 ENG English (page 153)
 FRE French (page 184)
 ITA Italian (page 230)
 JAL Linguistics (page 242)
 LIN Linguistics (page 242)
 LTL French (page 184)
 PHL Philosophy (page 263)
 PSY Psychology (page 287)

Major Program ERMAJ1850 Experimental Linguistics (Arts)

7.0 credits are required including LIN100Y5.

First Year: LIN100Y5

Higher Years:

1. LIN228H5, LIN229H5, LIN231H5, LIN232H5. 1.0 additional credit at 200 level [all LIN courses, FRE272Y5, LTL225Y5/ FRE225Y5 JAL253H5, excluding LIN200H5]
2. 3.0 credits at 300/400 level for total of 7.0 credits (all LIN courses, FRE325H5, FRE355H5, 373Y5, 376H5, 378H5, 387H5, 476H5, 489H5, ITA374H5, 375H5, 437H5, JAL355H5, LTL388Y5, 488H5, PSY315H5, 374H5)

Minor Program ERMIN0506 Linguistics (Arts)

4.0 credits are required, including at least 1.0 credit at the 300/400 level.

First Year: LIN100Y5

Upper Years: An additional 3.0 credits (for a total of 4.0 credits) chosen from the following:

1. At least two courses from the following list: LIN or JAL courses (recommended courses: LIN228H5, LIN229H5, LIN231H5, LIN232H5, LIN256H5, JAL253H5. *LIN200H5 is excluded*); ENG266H5; PSY315H5, 374H5.
2. The remaining courses to be chosen from those courses not yet taken from the list above, or from the following list: all 300 and 400 level LIN courses; ENG367Y5; FRE272Y5, 376H5, 378H5, 476H5, 489H5; ITA437H5; PHL350H5, 451H5.

Note: Some of the courses listed above have prerequisites not in this program. Students will find that this program is well suited to be combined with programs in the following disciplines: Anthropology, English, French, German, Italian, Philosophy, Psychology.

Minor Program ERMIN1200 English Language Linguistics (Arts)

4.5 credits are required, including 1.0 credit at the 300/400 level.

First Year: LIN100Y5

Second Year: LIN204H5, LIN205H5.

Additional 1.5 credits at the 200 level:

1. LIN203H5
2. LIN228H5
3. LIN256H5

Upper Years: Remaining credits (1.0) at the 300/400 level, to be selected from the following list: LIN356H5, LIN360H5, LIN380H5, LIN486H5, JAL353H5.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time

List of Courses

LIN100Y5 Introduction to General Linguistics (HUM)

Lectures on fundamental principles with illustrations from English and from a broad spectrum of other languages. Practice in elementary analytic techniques. [48L, 24T]

Required course for any program in Linguistics.

LIN200H5 Introduction to Language (HUM)

A general-interest course on language. The structure of language; the social and psychological aspects of language; how language changes over time, with special reference to the history of English. Also origin of language, writing systems, and language acquisition. [24L, 12T]

Exclusion: LIN100Y5, LIN100Y1, LIN200H1

This course will not count towards any Linguistics program of study. It will only count as an elective.

LIN203H5 English Words through Time and Space (HUM)

An analysis of English words, the history of their development and the variation in their use across the English-speaking world. Topics include the history and structure of words, the relation between sound and spelling, dialect variation and the development of dictionaries. [24L]

Exclusion: LIN202Y1

LIN204H5 English Grammar (HUM)

How the English language works: students will learn about fundamental grammatical concepts and structures and about their application to meaning-making in academic reading and writing contexts. [24L, 12T]

Exclusion: LIN202Y1

LIN205H5 Advanced English Grammar (HUM)

This course examines the complex grammatical concepts and structures of academic discourse and their application to meaning-making in reading and writing contexts for specific disciplines. [24L, 12T]

Prerequisite: LIN204H5

LIN210H5 Contrastive Linguistics (HUM)

An introductory survey of comparative methods in linguistics. How are languages compared with respect to their phonological, morphological, syntactic and semantic structure? Focusing on contrastive linguistics methods, the course also covers selected applications of contrastive analysis in the second language classroom and topics such as historical linguistics, linguistic typology, translation studies, and psycholinguistics. Depending on the instructor, the course may emphasize French or English as a primary starting point for contrastive analysis. [24L]

Prerequisite: LIN100Y5/ FRE272Y5/ LTL225Y5/ FRE225Y5 or equivalent

LIN211H5 Linguistics and Poetics (HUM)

Developments in linguistic theory sprouted diverse approaches to linguistic analysis of literature, from early formalism and structuralism to cognitive linguistics and functional linguistics. Survey of major trends and issues in linguistic poetics includes essential readings, such as works of R. Jakobson, M.A.K. Halliday, R. Barthes, and practice in linguistic analysis of literary texts. [24L]

LIN228H5 Phonetics (HUM)

Investigation of the sounds most commonly used in languages from an articulatory and acoustic point of view, with practice in their recognition and production. [24L, 12T]

Recommended Preparation: LIN100Y5/ 200H5

LIN229H5 Sound Patterns in Language (HUM)

This course explores the nature and organization of phonological systems (ie. the sound structure of languages) with practical work in analysis. [36L]

Exclusion: FRE376H5

Prerequisite: LIN100Y5/ 228H5

LIN231H5 Morphological Patterns in Languages (HUM)

This course explores the nature and organization of morphological systems (word formation rules, organization of paradigms, etc.) with practical work in analysis. [36L]

Prerequisite: LIN100Y5

LIN232H5 Syntactic Patterns in Language (HUM)

This course explores the nature and organization of syntactic systems; their relation to semantic systems and the linguistic organization of discourse; practical work in analysis. [36L]

Exclusion: FRE378H5

Prerequisite: LIN100Y5

LIN247H5 Semantics and Pragmatics (HUM)

This course provides an introduction to the study of meaning in natural language and its relation to syntactic structure and discourse context. Topics include assertion, presupposition, and implicature; thematic roles; predication, quantification, and scope; and the representation of discourse structure. [36L]

Prerequisite: LIN100Y5

Recommended Preparation: LIN231H5 or LIN232H5

JAL253H5 Language and Society (SSc)

The study of the relationship between language and society with the goal of understanding social structure through language; major themes are multilingual societies, including pidgin and creoles, and social interaction through speech. (Given by the Departments of Anthropology and Linguistics) [24L, 12T]

Prerequisite: LIN100Y5/ 200H5/ ANT206H5

LIN256H5 Sociolinguistics (SSc)

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. [36L]

Prerequisite: LIN100Y5/ 200H5

LIN299Y5 Research Opportunity Program (HUM)

This courses provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge.

Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

LIN306H5 Language Diversity and Language Universals (HUM)

This course examines cross-linguistics typological features found in the languages of the world. Special attention is given to describing phonological, morphological or syntactic patterns found cross-linguistically. The goal of the course is to draw on the range of variation in order to uncover language universals. [24L, 12T]

Prerequisite: LIN232H5

Recommended Preparation: LIN231H5

LIN322H5 Phonological Theory (HUM)

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.). [36L]

Prerequisite: LIN229H

LIN331H5 Syntactic Theory (HUM)

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.). [36L]

Prerequisite: LIN232H

LIN335H5 Phonetics and Phonology in English (HUM)

The aim of the course is to provide an in-depth description of the phonetic and phonological system of English with special emphasis on prosodic aspects (word and sentence stress, rhythm and intonation). The course also discusses dialect differences in sound structure, and issues in the acquisition of the English phonological system. [24L]

Prerequisite: LIN228H5; LIN229H5

JAL353H5 Discourse Analysis/Conversation Structures (SSc)

The aims of this course are to introduce students to the close and detailed observation of ordinary conversational interaction, and to some of the main ways in which such interaction is orderly and organized. The course is not a survey of different approaches to the study of interaction or to socio-linguistics. Rather, it employs one sort of empirical material – naturalistic audio and video tape recordings and transcriptions of ordinary interaction – and one way of dealing with such material to introduce students to the practice of close observation of conversation and to some of its results. The focus is on students developing the capacity to discern orderliness and method in the details of everyday interaction, and beginning the path to competent and productive independent research in this area.

Exclusion: CCT307H5

Prerequisite: ANT 206Y5/ LIN 256H5/ JAL 253H5

JAL355H5 Language and Gender (SSc)

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. [36L]

Prerequisite: ANT204Y5/ ENG233Y5/ LIN100Y/LIN200H5/ SOC202Y5/ 214Y5/ 215Y5/ (WGS200Y5/ ERI200Y5)

LIN356H5 The Acquisition of Grammar in Different Contexts (HUM)

This course examines language acquisition by different populations: first language acquisition by normal, deaf and impaired children; first language re-acquisition by aphasic patients; second language acquisition by children and adults. The question that we will ask is the following: what are the similarities and differences across acquisition contexts? Comparative theoretical approaches will be examined in order to gain an insight into the following topics: evidence for innate linguistic endowment, the stages in the development of grammar, the role of input. An important component will be the analysis of both spontaneous corpora and experimental work. [24L, 12T]

Prerequisite: LIN232H5/ FRE378H5/ PSY315H5

LIN358H5 Bilingualism and Multiple Language Acquisition (HUM)

This course examines simultaneous and successive second (and multiple) language acquisition by young children. We will look at relevant factors that influence language acquisition in early ages such as the types of languages to be acquired, the nature of the input, the age of the onset of exposure. [24L]

Prerequisite: 1.0 credit in LIN at 200 level/1.0 credit equivalent at 300 level in PSY.

LIN360H5 Historical Linguistics (HUM)

This course will provide a historical perspective on the study of languages with a focus on processes of phonetic, morphological, syntactic and semantic evolution, on methods of historical reconstruction, such as the comparative method and internal reconstruction, and on major sound laws. [24L]

Prerequisite: LIN228H5/ LIN229H5 or LIN231H5/ LIN232H5

LIN366H5 Contact Languages: Pidgins, Creoles and Mixed Languages (HUM)

This course examines languages recently created by means of contact between languages of different socio-economical status. Analysis of these new languages is of particular interest to linguistic theory since it offers insight on the construction of linguistic systems, language evolution and on how language is acquired in such a context. Emphasis is given to the description and analysis of French-based pidgins and Creoles spoken in the Caribbean and Indian Ocean region. [24L]

Prerequisite: LIN100Y5 plus 1.0 credit at the 200 level.

LIN374H5 Canadian French (HUM)

This course offers students the opportunity to become familiar with the primary research methods used in sociolinguistic studies, with how sociolinguistics helps to understand the properties of Canadian French, and with the pedagogical implications arising from sociolinguistic research on Canadian French. This course will contain a research-based component. [24L]

Exclusion: FRE374H5

Prerequisite: LIN256H5/ JAL253H5 and reading ability in French.

LIN376H5 Introduction to Romance Linguistics (HUM)

This course explores the linguistic features and characteristics of major Romance languages such as French, Italian, Spanish and Romanian. Attention will be given to the phonological, morphological and syntactic components of the languages to be studied, with emphasis on both similarities and differences. [36L]

Prerequisite: LIN228/LIN229 and LIN231/LIN232.

LIN380H5 Theoretical Issues in Second Language Teaching and Learning (HUM)

This course examines theoretical research on adult second language learning and the resultant implications for second language teaching. Topics include learning styles and strategies, age, affect, communicative competence, and sociolinguistics. Links are drawn to teaching practices, including error correction, materials selection, and order and method of presentation. [24L]

Exclusion: FGI380H5/ LTL380H5

Prerequisite: LIN100Y5 or 0.5 credit at the 200 level in LIN.

LIN399Y5 Research Opportunity Program (HUM)

This course provides senior undergraduate students who have developed some knowledge of research methods used in the discipline of Linguistics to work in the research project of a U of T Mississauga professor for course credit. Enrolled students have the opportunity to become involved in original research, develop their research skills, and share in the excitement and discovery of acquiring new knowledge. Project descriptions for participating faculty members for the following summer and fall/winter sessions are posted on the ROP website in mid-February; students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: LIN100Y5/ LIN200H5 and a 200 level LIN course (except LIN200H5).

LIN417H5 Second Language Pedagogy (HUM)

This course offers a comprehensive survey and analysis of fundamental concepts and issues related to second, bilingual, and foreign language instruction by developing students' knowledge of second language acquisition, approaches to language teaching, computer-assisted teaching, and pedagogical design and implementation in the language classroom. [24L]

Exclusion: FGI417H5/ LTL417H5

Prerequisite: LIN100Y5 plus 0.5 credit at the 300 level.

LIN456H5 Sociolinguistics and Second Language Teaching and Learning (HUM)

This course considers the impact on variant use by second language learners exerted by linguistic and extra-linguistic factors, such as the surrounding linguistic context, age, sex, style, and curricular and extra-curricular exposure. Implications are drawn for second language teaching, including deciding what registers and variants to teach and what activities to employ. [24L]

Exclusion: FGI456H5/ LTL456H5

Prerequisite: LIN256H5/ JAL253H5

LIN466H5 Topics in Creole Linguistics (HUM)

An advanced seminar on current issues of theoretical relevance in Linguistics with special reference to Creole languages, in particular their emergence and their linguistic properties compared to those of the contributing languages. Depending on the instructor, the course may emphasize on French-based, English-based or Portuguese-based Creoles. [24L]

Prerequisite: LIN229H5, LIN231H5/ 232H5/ 366H5

LIN468H5 Research Methods in Linguistics (HUM)

Introduction to the main methods, tools and techniques used in the analysis, interpretation and presentation of linguistic data. Topics may include research in the areas of general linguistics, language acquisition, psycholinguistics, sociolinguistics and dialectology. This course involves a practical component where students will apply skills learned in order to carry out their own experiment. [36L]

Prerequisite: Any 300-level half course in LIN.

LIN476H5 Topics in Romance Linguistics (HUM)

An advanced seminar on current issues of theoretical relevance in Linguistics with special reference to Romance languages such as French, Italian, Spanish and Romanian. Depending on the instructor, focus of the course may be more oriented towards morpho-phonology or morpho-syntax. [24L]

Prerequisite: LIN376H5 or permission of the instructor.

LIN486H5 Teaching and Learning Cross-cultural Communication (HUM)

This course examines cross-cultural language use by second language learners from both a theoretical and pedagogical perspective. Topics addressed include the role of pragmatic transfer between native and target languages, individual differences, learning context, and instruction in the development of second language pragmatic competence. [24L, 12T]

Exclusion: LTL486H5

Prerequisite: LIN256H5/ JAL253H5

LIN495Y5 Individual Project (HUM)

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: One half course at the 300 level in LIN.

LIN496H5 Individual Project (HUM)

A research or reading project undertaken by the student under the supervision of a staff member.

Prerequisite: One half course at the 300 level in LIN.

LIN498H5 Individual Project (HUM)

A research or reading project undertaken by the student under the supervision of a staff member.

Prerequisite: One half course at the 300 level in LIN.

Logic (HBA)**Professors**

J. Brunning, B.A., M.A., Ph.D.

B.D. Katz, B.A., M.A., Ph.D.

B. Yi, B.A., M.A., Ph.D.

Program Advisor

Professor B.D. Katz

Room 274, North Bldg.

905-828-3751

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Dianne Robertson

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Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CSC Computer Science (page 125)

MAT Mathematics (page 256)

PHL Philosophy (page 263)

Major Program ERMAJ1736 Logic (Arts)

6.5 credits are required.

1. CSC148H5, 236H5
2. MAT134Y5/ 135Y5/ 137Y5, 102H5, 202H5 and MAT309H5/ 344H5 (For students in the program, the prerequisites for MAT309H5 and PHL348H5 will be satisfied by completing MAT102H5, 134Y5/ 135Y5/ 137Y5 and MAT202H5).
3. PHL245H5, 345H5, MAT309H5/ PHL348H5
4. Three of PHL246H5, 325H5, 327H5, 347H5, 350H5, 355H5, 451H5

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

NOTE: Not all courses are offered each year. Please consult with the department.

Management (HBA, BBA)

Professors

V. Aivazian, B.S., M.A., Ph.D.
 L.J. Brooks, B.Com., M.B.A., F.C.A.
 F. Chen, B.A., M.A., M.A., Ph.D.
 L. Florence, M.B.A., M.Sc.
 A. Galasso, B.A., M.A., Ph.D.
 H.P. Gunz, B.Sc., D.Phil, Ph.D., Dp.B.A.
 T. Hossain, B.A., B.S., Ph.D.
 R.M. Jalland, B.A., Ph.D.
 S. Kang, B.Sc., M.A., Ph.D.
 J. Kitunen, B.B.M., C.A.
 L. Kramer, B.B.A., Ph.D.
 N. Lacetera, B.S., Ph.D.
 K. Li, B.A., M.B.A., M.S., Ph.D.
 Y. Li, B.Sc., M.B.A., Ph.D.
 S. Meza, I.E., M.B.A., M. Phil
 M. Schneider, B.Com., L.L.B., M.B.A., C.F.P., C.A.
 C. Seguin, M.B.A., C.G.A.
 S.M. Toh, B.B.S., Ph.D.
 M.M. Tombak, B.A.Sc., M.B.A., A.M., Ph.D.
 G. Virag, B.A., M.A., Ph.D.
 A.K.P. Wensley, M.A., M.A., M.B.A., Ph.D.
 I. Wiecek, B.Com., C.A.
 M. Ye, B.A., M.A., Ph.D.

Chair

Professor M.M. Tombak

Associate Chair

Professor H.P. Gunz

Assistant Director, Operations

Heather Hines
 Room 204, Kaneff Centre
 905-569-4972

Director, Undergraduate Programs

Professor H.P. Gunz

Program Assistant

Christopher Jones
 Room 205, Kaneff Centre
 905-569-4917

Student Advisor

Mary Wellman
 Room 215, Kaneff Centre
 905-828-5309

Departmental Secretary

Joanna Mackie
 Room 207B, Kaneff Centre
 905-828-3914

There are three undergraduate program streams in Management at the University of Toronto at Mississauga: the Commerce Programs, the BBA Program and the Management Major Program.

1. Commerce Programs [BCom and HBA/HBSc (Major)]

The Commerce programs combine economics and the various sub-disciplines of business and management enabling students to develop analytical skills and gain knowledge of institutions. This background is useful for solving problems and making decisions in business and government environments. Commerce students have the opportunity to participate in an international exchange program during third year.

Several Specialist programs are offered within Commerce: Accounting, Finance, Marketing and Human Resource Management. The Specialist Program in Accounting allows students to complete the prerequisite studies for professional accounting qualifications (e.g. CA, CMA, CGA) within the BCom. Commerce graduates frequently become professional accountants, economists, actuaries, financial analysts, marketing analysts, managers of firms and government, or proprietors of small businesses. Some commerce students choose to do post-graduate studies; law schools and MBA programs have been favoured by recent graduates.

2. The BBA Management Specialist Program (BBA)

The Management Specialist program prepares students to become effective members of organizations. Drawing on a balanced offering of rigorous intellectual frameworks from the social sciences, it covers the nature and working of organizations, and managerial functions. The program provides students with a good understanding of the major aspects of management and helps them to acquire an integrated set of management skills.

3. The Management Major Program (HBA/HBSc)

The Management Major program leads to either an Honours BA or an Honours BSc degree, depending on your second discipline. For example, Chemistry and Management will prepare you for a career in the chemical industry; English and Management for publishing, Psychology and Management or Sociology and Management for a wide range of careers in business or commerce, etc.

Professional Skills Development Program (PSDP)

The Professional Skills Development Program (PSDP) has been created exclusively for Commerce and BBA/Management students as a way to encourage skill development beginning in the second year through to final year.

The information and skills gained through participation in this program will help students to:

- Strengthen technical and soft skills necessary for workplace success.
- Increase awareness of marketability on the job market and confidence in abilities
- Effectively make the transition from school to the workplace
- Manage their career by navigating through the working world more effectively

By participating in the program, students will be officially recognized and rewarded for their co-curricular activities through a transcript notation. Students will need to earn a minimum of at least 46 PSDP skill points over the course of their academic program. Upon completion of this requirement, students can submit an application to the PSDP Advisory Committee for transcript notation consideration. For more information and program details, please visit the Commerce or Management Blackboard organization or <http://www1.utm.utoronto.ca/management/?p=careers>.

Enrolment in Commerce and Management programs, and all 200+ level Management courses, is restricted.

"MGD" Management Courses are available to students in the Digital Enterprise Management (CCIT) program and, if space is available, to Commerce and Management program students.

"MGM" Management Courses at the 200+ level are available only to students in the Management programs.

"MGT" Management Courses at the 200, 300, and 400 levels are available only to students in the Commerce programs.

MGT353H5, 363H5, 374H5, 413H5, 452H5, 453H5, 455H5, 460H5, 461H5, 491H5, 493H5 are open to Management students.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO	Biology (page 76)
ECO	Economics (page 143)
MGD	Communication, Culture and Information Technology (page 111)
MGM	Management (page 248)
MGT	Management (page 248)
PSY	Psychology (page 287)
SOC	Sociology (page 296)
STA	Statistics (page 306)

Specialist Program ERSPE2431 Management

Within the BBA degree, 12 credits are required.

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. Prerequisite Courses:

MGM101H5(63%), MGM102H5(63%);
ECO100Y5(63%) in a minimum of 4.0 credits.

2. Cumulative Grade Point Average (CGPA)

Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand.

Note: Transfer Credits

Students applying to Management with transfer credits must meet these requirements:

1. The CGPA must meet the cut off in a minimum of 4.0 credits taken at U of T Mississauga. The CGPA is based on courses taken for credit.
2. The combined CGPA of all courses taken at another institution plus U of T Mississauga courses must meet the minimum cut off for the year in which you are applying.

Application for admission to the program for September is made during the Subject POST request periods in April-May. Contact Management Department for **dates**.

1. First year prerequisites (2.0 credits): MGM101H5, 102H5; ECO100Y5
2. Core courses (1.5 credits): MGM200H5, 300H5, 400H5
3. Management Disciplines (6.5 credits): MGM221H5/ MGT120H5, 222H5, 230H5, 252H5, 290H5, 320H5, 332H5, 371H5; MGT353H5, 363H5, 374H5; ECO205Y5
4. Statistics (.5 credit): STA218H5 or 1.0 from BIO(360H5, 361H5)/PSY(201H5, 202H5)/ (SOC350H5, 351H5)
5. Electives (select 1.5 credit): MGM331H5, MGT413H5, 452H5, 453H5, 454H5, 455H5, 460H5, 461H5, 491H5, 493H5, 494H5; MGD421H5, 422H5, 423H5

Major Program ERMAJ2431 Management

Note: This program must be taken as part of an Honours degree.

8.0 or 8.5 credits are required to be taken with another Major, which can be in any area EXCEPT **Commerce, Digital Enterprise Management, Economics, Human Resources and Industrial Relations, or Employment Relations (G).**

Limited Enrolment – Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite courses** MGM101H5(63%), MGM102H5(63%); ECO100Y5(63%) in a minimum of 4.0 credits.
2. **Cumulative Grade Point Average (CGPA)**
Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand.

Note: Transfer Credits

Students applying to Management with transfer credits must meet these requirements:

1. The CGPA must meet the cut off in a minimum of 4.0 credits taken at U of T Mississauga. The CGPA is based on courses taken for credit.
2. The combined CGPA of all courses taken at another institution plus U of T Mississauga courses must meet the minimum cut off for the year in which you are applying.

Application for admission to the program for September is made during the Subject POST request periods in April-May. Contact Management Department for **dates**.

1. First year prerequisites (2.0 credits): MGM101H5, 102H5; ECO100Y5
2. Core courses (1.5 credits): MGM200H5, 300H5, 400H5
3. Management Disciplines (3.0 credits): MGM221H5/ MGT120H5, 222H5, 230H5, 252H5, 290H5, 371H5
4. Statistics (.5 credit): STA218H5 or 1.0 from BIO(360H5, 361H5)/PSY(201H5, 202H5)/ (SOC350H5, 351H5)
5. Electives (select 1.0 credit): MGM331H5, 320H5, 332H5; MGT353H5, 363H5, 413H5, 455H5, 460H5, 461H5, 491H5, 493H5, 494H5; MGD421H5, 422H5, 423H5

Notes: The Program requirements in effect at the time the students are admitted to the program must be met in order to fulfill the Degree requirements.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses**MGM101H5 Introduction to Management Functions (SSc)**

This course shows how the principal management disciplines provide analytical tools for understanding organizations and their management, how the disciplines inter-relate and how they underpin the activities of organizations. **Not open to students enrolled in the 3rd or 4th year of the Commerce Major or Specialist program.** [24L]

Exclusion: COM110H1, MGM100Y5, MGT100Y5, MGTA02Y3, MGTA03H3

MGM102H5 Management in a Changing Environment (SSc)

This course introduces the environment in which managers operate, and to the managerial role. It explores the Canadian business system, the economic, technological and social trends that are bringing about change in the system, and the basic principles of managing in this environment. **Not open to students enrolled in the 3rd or 4th year of the Commerce Major or Specialist program.** [24L, 6T]

Exclusion: MGM100Y5, MGT100Y5, MGTA02Y3, MGTA04H3

Prerequisite: MGM101H5(63%)

MGM200H5 Analysis for Decision and Control (SSc)

Students will be introduced to a variety of techniques for analyzing data for the purposes of decision and control. Topics covered include mathematical modelling, decision analysis and operations management. [24L, 12T]

Exclusion: MGT200H5

Prerequisite: MGM(101H5, 102H5)

Corequisite: STA218H5

MGM221H5 Accounting Fundamentals I (SSc)

The objective of this course is to expose students to the fundamentals of accounting and financial reporting from a user perspective. Students will learn to prepare, read and understand financial statements as well as to analyze them for information content. [24L]

Exclusion: MGT120H5, MGM220Y5

Prerequisite: MGM(101H5, 102H5)

Corequisite: MGM200H5

MGM222H5 Accounting Fundamentals II (SSc)

Management accounting reports aid the decision-making process by providing management with pertinent financial, as well as nonfinancial, information, such as product service costing information, information to assist in planning and controlling operations, and special reports and analyses to support management's decisions. This course will provide you with the tools to understand and use management accounting information for decision making, planning and control. [24L, 12T]

Exclusion: MGM220Y5, MGT223H5

Prerequisite: MGM(101H5, 102H5), MGM221H5/ MGT120H5

MGM230H5 Finance (SSc)

This course analyzes the financial decision-making processes of individuals and firms. It emphasizes the institutional aspects of finance, focusing on the characteristics of financial instruments and institutions in capital markets. [24L, 12T]

Exclusion: CCT321H5; MGT337Y5, 338H5

Prerequisite: MGM(101H5, 102H5), MGM200H5

MGM252H5 Principles of Marketing (SSc)

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. [24L, 12T]

Exclusion: CCT322H5; MGT252H5

MGM290H5 Regulatory Issues (SSc)

This course provides an overview of the public institutions, laws and regulations that affect the structure and management of Canadian organizations. [24L]

Exclusion: MGT393H5, 394H5, 423H5, 429H5

Prerequisite: MGM(101H5, 102H5), MGM200H5

MGM300H5 Organizational Behaviour (SSc)

Using concepts from psychology and the social sciences to understand processes of managing and organizing, the course will explore life in organizations, the analytical tools that can help make sense of the behaviours exhibited by organizational members, and approaches to becoming an effective organizational member. [24L, 8T]

Exclusion: CCT324H5; ERI260H5; MGT262H5, MGM362H5; PSY332H1; WDW260Y5, 260H5

Prerequisite: MGM200H5

MGM320H5 Financial Reporting (SSc)

This course will provide an understanding of financial reports, and their use for investment and management decisions. Cases will be used to enhance problem-solving skills and will integrate ideas from finance, management and financial accounting and other areas of study. The course focuses on the interpretation and use of financial statement data for the purpose of assessing the financial performance of a business operation, not on the technical details of accounting rules. [24L, 12T]

Exclusion: MGT224H5, 322H5

Prerequisite: MGM220Y5/ (221H5, 222H5)

MGM331H5 Investments (SSc)

This course introduces students to the topic of investments from an individual and institutional point of view. Topics include bond valuation, stock valuation, portfolio theory, asset pricing models, security valuation, efficient markets, and portfolio performance evaluation. [24L]

Exclusion: MGT330H5

Prerequisite: MGM230H5, STA218H5

MGM332H5 Managerial Finance (SSc)

This course deals with financial valuation models, capital budgeting decision-rules, the problem of investment under uncertainty, optimal financial structure of the firm; the characteristics of debt, equity and other financial instruments such as options are also analyzed. [24L]

Exclusion: MGT338H5, 339H5, 337Y5

Prerequisite: MGM230H5/ MGT230H5

MGM371H5 Introduction to Information Systems (SSc)

This course has been designed to provide students with a basic understanding of the computer and communications systems that are so central to modern organizations. Unlike programming courses, the focus here is on the knowledge that will enable students to use computer-based systems and to participate in their development. The course covers the technology, design, and application of information systems with emphasis on managerial implications. A wide variety of applications are studied. No previous background in computing is assumed. [24L, 12T]

Exclusion: CCT325H5; CSC340H5; MGT371H5

MGM400H5 Special Topics in Management (SSc)

A series of advanced seminars and projects, designed to integrate the themes of the program and to draw connections with current issues of importance in private- and public-sector organizations. [24L, 12T]

Exclusion: MGT400H5, MGT492H5

Prerequisite: MGM300H5

MGT120H5 Financial Accounting I (SSc)

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. [24L, 20T]

Exclusion: MGM221H5

MGT220H5 Financial Accounting II (SSc)

Expands the analysis of financial accounting beyond MGT120H5. Cases are used to develop critical thinking and communication skills. Topics include accounting's conceptual framework, analysis of business and financial statements, accounting for assets, and valuation of bonds. [24L, 24T]

Prerequisite: At least a "C" in MGT120H5

MGT223H5 Management Accounting I (SSc)

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. [24L, 24T]

Exclusion: RSM222H1

Prerequisite: At least a "C" in MGT120H5

MGT224H5 Financial Accounting Theory & Policy I (SSc)

Expands the analysis of financial accounting beyond MGT220H5. Technical topics include accounting for leases, capital assets, revenue recognition, intangibles and contingencies. Emphasis on implication for valuation and analysis. [24L, 5T]

Prerequisite: MGT220H5

MGT238H5 Financial Markets (SSc)

Introduction to Canadian and international financial markets. It provides an overview of the major financial institutions, their roles and some problems they face, the major types of financial securities and the mechanisms under which they are traded. It is helpful preparation for students thinking of taking the Canadian Securities Course. [24L]

Exclusion: ACT349H1, ECO358H5, ECO359H5, RSM230H1

Prerequisite: A grade of 63% in MGT120H5

MGT252H5 Principles of Marketing (SSc)

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. [24L]

Exclusion: CCT322H5; MGM252H5

MGT262H5 Individual and Group Behaviour in Organizations (SSc)

Theoretical ideas and practical applications concerning individual and group behaviour in organizations. We explore relevant problems confronting management: motivation, influence, communication, supervision, decision-making, and work force diversity. [24L]

Exclusion: CCT324H5; ERI260H5; MGM300H5; PSY332H1; WDW260Y5, 260H5

MGT299Y5 Research Opportunity Program (SSc)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Exclusion: MGT399Y5

MGT321H5 Auditing (SSc)

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 judgment. [24L]

Prerequisite: MGT224H5

MGT322H5 Financial Accounting Theory and Policy II (SSc)

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 judgment. [24L]

Prerequisite: MGT224H5

MGT323H5 Managerial Accounting II (SSc)

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. [24L]

Prerequisite: MGT223H5; ECO220Y5/ 227Y5/ STA(250H1, 255H1)/STA(257H5, 261H5)

MGT330H5 Investments (SSc)

Security analysis and portfolio management. Emphasis is placed on an analysis of bonds and common stocks. [24L]

Prerequisite: MGT338H5/ MGT337Y5

Recommended Preparation: MGT120H5

MGT338H5 Business Finance I (SSc)

(Formerly MGT337Y5) This course analyzes the financial investment decision-making process of individuals and firms. It provides an introduction to present-value techniques, capital budgeting decision-rules, the problem of investment under uncertainty, and portfolio theory. [24L, 5T]
Exclusion: CCT321H5; ECO358H5, MGT337Y5
Corequisite: ECO200Y5/ 204Y5/ 206Y5, ECO220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 248H5/ 258H5)/STA(257H5, 261H5). **Students must complete the first half of these courses before they can take MGT338H5.**

MGT339H5 Business Finance II (SSc)

(Formerly MGT337Y5) This course extends material learned in MGT 338H, which is a prerequisite. Topics include the concept of efficiency of financial markets, the optimal financing decisions of firms, and the characteristics of debt, equity and other financial instruments such as options. [24L, 5T]
Exclusion: CCT321H5; ECO359H5; MGT337Y5
Prerequisite: ECO200Y5/ 204Y5/ 206Y5, ECO220Y5/ 227Y5/ STA(250H1, 257H5)/STA(257H5, 248H5/ 258H5)/STA(257H5, 261H5); MGT338H5

MGT353H5 Introduction to Marketing Management (SSc)

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. [24L]
Prerequisite: MGT252H5/ MGM252H5
Recommended Preparation: ECO220Y5/ 227Y5/ STA(250H1, 255H5)/STA(257H5, 261H5)

MGT363H5 Organization Design (SSc)

The course covers the relationship between design and effectiveness; the impact and determinants (environment, technology, competitiveness, size, life-cycle, communication needs) of an organization's form as well as the difficulties of re-framing organizations. [24L]
Exclusion: WDW260Y5, 260H5, ERI260H5

MGT371H5 Introduction to Business Information Systems (SSc)

This course provides an introduction to information systems and technology. It covers key management decisions about information systems and their role in strategy, profitable growth, and modern work environments. The focus is on management practice in the face of technological change. Unlike programming courses, the focus is on knowledge to help students contribute to information systems decisions in the organizations that they join. [24L, 12T]
Exclusion: CCT325H5; CSC340H5; MGM371H5

MGT374H5 Operations Management (SSc)

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. [24L]
Prerequisite: ECO220Y5/ 227Y5/ STA(250H1, 255H1)/STA(257H5, 261H5)/STA218H5

MGT393H5 Legal Environment of Business I (SSc)

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. [24L]
Exclusion: MGM290H5

MGT394H5 Legal Environment of Business II (SSc)

This course builds on the legal principles developed in Legal I and canvasses other areas of law that impact a business entity. The course deals with 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. [24L]
Prerequisite: MGT393H5

MGT399Y5 Research Opportunity Program (SSc)

This course provides senior undergraduate students who have developed some knowledge of a discipline and its research methods an opportunity to work in the research project of a professor in return for course credit. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Project descriptions for participating faculty members for the following summer and fall/winter sessions are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.
Exclusion: MGT299Y5, MGM299Y5
Prerequisite: A minimum of 10.0 credits

MGT401H5 Supervised Reading Course on an Approved Subject (SSc)

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.
Prerequisite: Cumulative GPA of at least 2.70

MGT402H5 Supervised Reading Course on an Approved Subject (SSc)

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.

Prerequisite: Cumulative GPA of at least 2.70

MGT411H5 Special Topics in Management (SSc)

Topics and issues in Management. Content in any given year will depend on the instructor. [24L]

MGT412H5 Special Topics in Management (SSc)

Topics and issues in Management. Content in any given year will depend on the instructor. [24L]

MGT413H5 Special Topics in Management: Internship (SSc)

Students will be provided with an opportunity to apply, in a practical business setting, the management knowledge they have gained through previous course work. This is accomplished through part-time unpaid work placements, or "internships." The internship will provide students with a valuable opportunity to make personal contacts in the public or private sector. The course is also intended to help students acquire practical skills that will serve them well in the workplace. An application is required.

Prerequisite: MGM300H5 or 1.0 credit in MGT at the 300/400 level, 3.0 CGPA, 14.0 credits.

MGT414H5 Special Topics in Management (SSc)

Topics and issues in Management. Content in any given year will depend on the instructor. [24L]

MGT415H5 Special Topics in Management (SSc)

Topics and issues in Management. Content in any given year will depend on the instructor. [24L]

MGT416H5 Special Topics in Management (SSc)

Topics and issues in Management. Content in any given year will depend on the instructor. [24L]

MGT417H5 Special Topics in Management (SSc)

Topics and issues in Management. Content in any given year will depend on the instructor. [24L]

MGT419H5 Critical Thinking, Analysis and Decision Making (SSc)

This is a capstone case course stressing the pervasive competencies and critical thinking skills required from business school graduates, future professional accountants and advisors. This course provides students with an opportunity to integrate the technical and practical knowledge obtained in the prerequisite and other University courses and to apply this knowledge to case type situations. Because of the integrative nature and content of the course, the course will be directed towards students with a strong background in accounting and those seeking an accounting designation. [36L]

Prerequisite: MGT321H5, 322H5, 323H5, 337Y5/ 339H5. With the permission of the course instructor, one of these courses may be taken as a corequisite.

MGT421H5 Advanced Auditing Topics (SSc)

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. [24L]

Prerequisite: MGT321H5

MGT422H5 Information Systems and Technology, and IT Assurance (SSc)

Initially the course introduces core concepts in developing, implementing and using information systems in an organization, as well as the business issues that arise from the use of technology. The course then focuses on how information systems impact the audit process and the techniques that auditors must utilize in assessing IT/IS controls and systems. [24L]

Prerequisite: MGT321H5

MGT423H5 Canadian Income Taxation I (SSc)

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 cases. Topics covered include administration of the tax system, residence, employment income, business and property income, capital gains, other income and deductions, computation of taxable income and taxes payable for individuals. The GST/HST implications, where relevant, will also be discussed.

The two course sequence (MGT423H5 and MGT429H5) have been designed to provide participants with coverage of the tax content required by the professional accounting bodies. [24L, 20T]

Prerequisite: MGT322H5/ 323H5/ 337Y5/ 339H5

MGT426H5 Advanced Accounting (SSc)

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. [24L, 12T]

Prerequisite: MGT322H5

MGT428H5 Management Control (SSc)

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. [24L]

Prerequisite: MGT323H5

MGT429H5 Canadian Income Taxation II (SSc)

This is the second of two courses in federal income tax law. It is designed to give the student an understanding of 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. [24L, 20T]

Prerequisite: MGT423H5

MGT431H5 Advanced Topics in Corporate Finance (SSc)

Application and development of the ideas in MGT338H5, 339H5 to corporate finance problems such as initial public offerings and project evaluation. [24L]

Prerequisite: MGT337Y5/ 338H5, 339H5

MGT433H5 Financial Management (SSc)

This course focuses on the application of modern financial techniques to operating and investing decisions. It analyzes working capital management and capital budgeting decisions within the context of the firm's business strategy. [24L]

Prerequisite: MGT338H5, 339H5

MGT434H5 Mergers and Acquisitions (SSc)

This course deals with issues related to mergers and acquisitions. The main focus is to develop a solid understanding of the valuation of potential acquisition targets from a bidders perspective. Other themes to be explored include M and A and corporate strategy, motivations for M and A, corporate restructuring and divestitures, financing M and A activity, and M and A 'waves' over the past 50 years. [24L]

Prerequisite: MGT338H5, 339H5

MGT437H5 Corporate Governance (SSc)

The course examines theoretical and empirical issues in corporate governance. It analyzes specific mechanisms for resolving conflicts among various stakeholders of the firm, evaluating alternative corporate governance practices. The course also analyzes fundamental issues linking legal and financial systems and addresses the question, how does a country's legal system affect its level of financial development and firms' cost of capital? [24L]

Prerequisite: MGT338H5, 339H5

MGT438H5 Futures and Options Markets (SSc)

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. [24L, 12T]

Prerequisite: MGT337Y5/ 338H5, 339H5

MGT439H5 International Finance (SSc)

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. [24L]

Prerequisite: MGT337Y5/ MGT338H5, 339H5

MGT452H5 Advanced Marketing Management (SSc)

The emphasis in this course is on marketing decision making in a dynamic environment. Building on the concepts and skills developed in MGT353H5, 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. [24L, 12T]

Prerequisite: MGT353H5

MGT453H5 Marketing Research (SSc)

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. [24L]

Prerequisite: MGT353H5; ECO220Y5/ 227Y5/ STA(250H1, 255H1)/STA(257H5, 261H5); STA218H5

MGT454H5 Special Topics in Marketing (SSc)

This course focuses on a specific theoretical or functional area of marketing. The area of concentration depends on the instructor. Examples of areas that may be covered include current issues in consumer behaviour, advertising, industrial marketing, or retailing. [24L]

Prerequisite: MGT353H5

MGT455H5 Marketing Consulting: Models for Analysis (SSc)

This course reviews the **science** side of marketing by studying multiple models used by companies and consulting firms in the different steps of the marketing process. The **marketing consulting** approach provides a deeper understanding of the process that supports marketing management decisions. This is of benefit not only for students following a marketing consulting path, but also for students joining marketing departments of Canadian firms. To enhance the learning experience the course will be strongly based on software applications that offer hands on exposure to real life corporate applications. [24L]

Prerequisite: MGT252H5/ MGM252H5, ECO220Y5/ STA221H5/ 218H5

MGT460H5 Human Resource Management (SSc)

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. [24L]

Prerequisite: MGT262H5/ 363H5/ MGM300H5/ WDW260H5

MGT461H5 Negotiation (SSc)

We negotiate every day - with potential employers, coworkers, roommates, landlords, parents, bosses, merchants, service providers, and even our friends and romantic partners. Negotiation is the art and science of securing agreements between two or more interdependent parties. It is a craft that must hold cooperation and competition in creative tension. It can be very difficult to do well. Even the most experienced negotiators often fall prey to common biases and errors in judgment. This course is highly experiential - students will practice, reflect, analyze, and practice again - and draws its insights from research in the cognitive, behavioral and social sciences. [24L]

Prerequisite: Open to third and fourth year Commerce and Management students.

MGT463H5 Organizational Behaviour in a Global Context (SSc)

A multinational perspective has become critical to an organization's success. This course explores some of the challenges of managing across and working with cultures. It will also consider ways in which management theories and behaviors may be adapted to ensure their application is carefully considered when applying Western management theories in an international setting. The course weaves together conceptual and practical considerations to create a balanced and exciting learning experience. [24L]

Prerequisite: MGT262H5/ MGM300H5

MGT491H5 Introduction to International Business (SSc)

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. [24L]

Prerequisite: 1.0 credit in MGT/MGM at the 300/400 level

MGT492H5 Introduction to Strategic Management (SSc)

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?" [24L]

Prerequisite: 1.0 credit in MGT/MGM at 300/400 level

MGT493H5 Small Business Management (SSc)

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. [24L]

Prerequisite: 1.0 credit in MGT/MGM at 300/400 level

MGT494H5 Entrepreneurial Strategy (SSc)

This course introduces students to the challenges an entrepreneur faces when starting a business: assessing his/her goals and ability, attracting financial and human resources, competing in the marketplace, and dealing with laws and regulations. Readings and discussion material will include actual business cases as well as academic articles and book chapters. The class is of relevance to students interested in starting new businesses, working in consulting or finance, and pursuing research and graduate studies. [24L]

Prerequisite: Open to 3rd and 4th year Commerce and Management students.

Mathematics (HBSc)

Professor Emeritus

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Professors

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Mathematics teaches one to think analytically and creatively. It is a foundation for advanced careers in a knowledge-based economy. The past century has been a remarkable one for discovery in mathematics. Problems in computer science, physics, biology, and economics have opened new fields of mathematical inquiry, and discoveries at the most abstract level, for example in number theory, have led to breakthroughs in applied areas.

The Mathematical Sciences Specialist Program at U of T Mississauga provides students with a solid foundation in the fundamental theoretical aspects of the mathematical sciences along with a broad range of techniques for applying this theory. The Major and Minor Programs in Mathematical Sciences consist largely of MAT courses, and may be combined with programs in other subjects.

First-year Courses Most first-year students at U of T Mississauga take a course in calculus (MAT133Y5, MAT134Y5, MAT135Y5, or MAT137Y5).

MAT133Y5 serves students in Commerce, Economics or Management who do not wish to take courses in

Mathematics or Statistics beyond the 100 level. It cannot be used as a prerequisite for any other MAT course, except for students who have also completed MAT233H5. MAT133Y5 counts as a Social Science course for distribution purposes. (Students in the above subjects who wish to do a Major in Statistics or Mathematics should take MAT134Y5, MAT135Y5 or MAT137Y5 instead.)

MAT134Y5 and MAT135Y5 are comparable in terms of mathematical content and difficulty, but differ in the nature of applications. MAT134Y5 is specifically designed for students in the Life Sciences, and has a corequisite of BIO152H5. MAT135Y5 gives a sense of the wide-ranging applications of calculus to the physical, biological and social sciences. Students who wish to do a degree in Computer Science should take MAT137Y5.

MAT137Y5 is for students who know when they enter university that they wish to study Mathematics or Computer Science (including Bioinformatics). Students in Statistics or Physics or Economics who are mathematically inclined will also enjoy this course.

MAT102H5 is a special course for beginning Mathematical Sciences students. It is intended to bridge the gap between high school mathematics, where mathematical proofs and logical arguments are often omitted, and university level mathematics, where proofs are critical to full understanding of the material.

A wide variety of upper level courses is available to students who have the proper prerequisites. Students should feel free to consult the department regarding course selection.

Mathematics is available at U of T Mississauga as a teachable subject in the Concurrent Teacher Education Program.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO	Biology (page 76)
CSC	Computer Science (page 125)
MAT	Mathematics (page 256)
STA	Statistics (page 306)

Specialist Program ERSPE2511 Mathematical Sciences (Science)

Within an Honours degree, 13.5 credits are required.

Limited Enrolment – Enrolment in the Specialist program is limited to students who meet the following criteria: (1) A minimum of 4.0 credits, including MAT102H5 (60%) and MAT137Y5 (60%). (2) A minimum cumulative grade point average (CGPA), to be determined annually.

First Year: CSC108H5, 148H5; MAT102H5, 137Y5, 223H5

Second Year: CSC207H5/ 209H5/ 236H5; MAT202H5, 224H5, 232H5, 242H5; STA257H5, 258H5/ 261H5

Third Year: MAT301H5, 378H5

Third & Fourth Years:

1. MAT311H5, 334H5, 368H5, 392H5, 302H5/ 315H5, 402H5
2. 1.0 additional credit, chosen from MAT302H5, 309H5, 315H5, 332H5, 344H5.
3. 0.5 additional credits in MAT at the 400 level (405 is recommended).
4. 1.5 additional credits at the 300+ level in CSC/MAT/STA

Note:

1. Recommended CSC courses: CSC236H5, CSC310H5.
2. Students enrolled in this program may participate in the PEY program. For more information visit www.pey.utoronto.ca

Major Program ERMAJ2511 Mathematical Sciences (Science)

7.5 credits are required.

Limited Enrolment – Enrolment in the Major program is limited to students who meet the following criteria: (1) A minimum of 4.0 credits, including 60% in MAT102H5 and 60% in MAT134Y5/ MAT135Y5/ MAT137Y5. (2) A minimum cumulative grade point average (CGPA), to be determined annually.

First Year: MAT102H5, 134Y5/ 135Y5/ 137Y5, 223H5

Second Year: MAT202H5, 224H5, 232H5/ 233H5, 242H5

Higher Years:

1. MAT301H5, 334H5, 378H5/ 392H5/ 405H5
(*MAT392H5 is recommended for CTEP students), 402H5, 252H5/ 311H5/ 332H5/ 368H5, 302H5/ 315H5/ 344H5
2. STA257H5/ 0.5 MAT credit at the 300+ level

Note: Students enrolled in this program may participate in the PEY program. For more information visit www.pey.utoronto.ca

Minor Program ERMIN2511 Mathematical Sciences (Science)

4.0 credits in MAT are required, including 1.0 MAT credit at the 300+ level.

First Year: MAT102H5, 134Y5/ 135Y5/ 137Y5

Second Year: MAT223H5, 224H5/ 232H5/ 242H5

Higher Years: 0.5 MAT credit at the 200+ level and 1.0 MAT credit at the 300+ level

Notes:

1. MAT223H5 may be taken in the first year.
2. Students who have the required prerequisites may take CSC236H5 and CSC310H5 and have them counted under "Higher Years".
3. Students may replace the combination (MAT134Y5/ 135Y5/ 137Y5 and MAT232H5) with the combination (MAT133Y5 and MAT233H5).

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

MAT102H5 Introduction to Mathematical Proofs (SCI)

Understanding, using and developing precise expressions of mathematical ideas, including definitions and theorems. Set theory, logical statements and proofs, induction, topics chosen from combinatorics, elementary number theory, Euclidean geometry. [36L, 12T]

Prerequisite: Minimum 70% in Grade 12 Advanced Functions (MHF4U)

Recommended Preparation: Minimum 70% in Grade 12 Calculus and Vectors (MCV4U)

MAT133Y5 Calculus and Linear Algebra for Commerce (SSc)

Mathematics of finance, matrices and linear equations. Review of differential calculus; applications. Integration and fundamental theorem; applications. Introduction to partial differentiation; applications. NOTE: This course cannot be used as the calculus prerequisite for any 200-level MAT or STA course, except in combination with MAT233H5. [72L, 24T]

Exclusion: MAT132Y5/ 134Y5/ 135Y5/ 137Y5/ 138Y5

Prerequisite: Minimum 70% in Grade 12 Advanced Functions (MHF4U). Highly Recommended: Minimum 70% in Grade 12 Calculus and Vectors (MCV4U).

This course cannot be used for the specialist or major programs in Mathematics, Statistics or Computer Science, except in combination with MAT233H5.

MAT134Y5 Calculus for Life Sciences (SCI)

Trigonometric functions. Limits, continuity. Techniques of differentiation and integration with applications to the life sciences. Extreme values and optimization. Graphing. The fundamental theorem of calculus. Introduction to sequences and series, power series. Introduction to discrete and continuous time modeling. [72L, 24T]

Exclusion: MAT132Y5, 133Y5, 135Y5, 137Y5, 138Y5

Prerequisite: Minimum 70% in Grade 12 Advanced Functions (MHF4U) *Highly Recommended:* Minimum 70% in Grade 12 Calculus and Vectors (MCV4U)

Corequisite: BIO152H5

Priority is given to students enrolled in a Life Sciences Program.

MAT135Y5 Calculus (SCI)

Trigonometric functions. Limits, continuity. Review of differential calculus; applications. Graphing, extreme values and optimization. Integration and fundamental theorem; applications. Sequences and series. Power Series. Introduction to differential equations. [72L, 24T]

Exclusion: MAT132Y5, 133Y5, 134Y5, 137Y5, 138Y5

Prerequisite: Minimum 70% in Grade 12 Advanced Functions (MHF4U) *Highly Recommended:* Minimum 70% in Grade 12 Calculus and Vectors (MCV4U)

MAT137Y5 Calculus (SCI)

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 theorem, the integral, the fundamental theorem, elementary transcendental functions, Taylor's theorem, sequences and series, power series. [72L, 24T]

Exclusion: MAT132Y5, 133Y5, 134Y5, 135Y5, 138Y5

Prerequisite: Minimum 70% in Grade 12 Advanced Functions (MHF4U), Minimum 70% in Grade 12 Calculus and Vectors (MCV4U)

MAT202H5 Introduction to Discrete Mathematics (SCI)

Mathematics derives its great power from its ability to formulate abstract concepts and techniques. In this course, students will be introduced to abstraction and its power through a study of topics from discrete mathematics. The topics covered will include: Sets, relations and functions; Basic counting techniques: subsets, permutations, finite sequences, inclusion-exclusion; Discrete probability: random variables paradoxes and surprises; Basic number theory: properties of the integers and the primes. The course will emphasize active participation of the students in discussion and written assignments. [36L, 12T]

Prerequisite: MAT102H5, 134H5/ 135Y5/ 137Y5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT212H5 Modeling with Differential Equations in Life Sciences and Medicine (SCI)

Modeling with differential equations, applied to examples from Life Sciences and Medicine. Exponential and logistic growth of population, stability in first-order equations, higher order linear equations, forced oscillations, systems of first order equations, phase plane analysis, predator-prey models, modeling chemical reactions, modeling heart beat. [36L, 12T]

Exclusion: MAT242H5, 258Y5

Prerequisite: MAT132Y5/ 134Y5/ 135Y5/ 137Y5/ 138Y5

Corequisite: MAT223H5, 232H5

MAT223H5 Linear Algebra I (SCI)

Systems of linear equations, matrix algebra, determinants. Vector geometry in \mathbb{R}^2 and \mathbb{R}^3 . Complex numbers. \mathbb{R}^n : subspaces, linear independence, bases, dimension, column spaces, null spaces, rank and dimension formula. Orthogonality, orthonormal sets, Gram-Schmidt orthogonalization process, least square approximation. Linear transformations from \mathbb{R}^n to \mathbb{R}^m . The determinant, classical adjoint, Cramer's rule. Eigenvalues, eigenvectors, eigenspaces, diagonalization. Function spaces and applications to a system of linear differential equations. The real and complex number fields. [36L, 12T]

Exclusion: MAT222H5, 248Y5

Prerequisite: Grade 12 Advanced Functions (MHF4U), (Grade 12 Calculus and Vectors (MCV4U)/MAT102H5).

MAT224H5 Linear Algebra II (SCI)

Abstract vector spaces: subspaces, dimension theory. Linear mappings: kernel, image, dimension theorem, isomorphisms, matrix of a linear transformation. Change of basis, invariant subspaces, direct sums, cyclic subspaces, Cayley-Hamilton theorem. Inner product spaces, orthogonal transformations, orthogonal diagonalization, quadratic forms, positive definite matrices. Complex operators: Hermitian, unitary and normal. Spectral Theorem. Isometries of \mathbb{R}^2 and \mathbb{R}^3 . [36L, 12T]

Exclusion: MAT248Y5

Prerequisite: MAT102H5, 223H5

MAT232H5 Calculus of Several Variables (SCI)

Differential and integral calculus of several variables: partial differentiation, chain rule, extremal problems, Lagrange multipliers, classification of critical points. Multiple integrals, Green's theorem and related topics. [36L, 12T]

Exclusion: MAT138Y5, 233H5.

Prerequisite: MAT132Y5/ 134Y5/ 135Y5/ 137Y5

Corequisite: MAT223H5

MAT233H5 Calculus of Several Variables (SCI)

"Bridging Course"; accepted as prerequisite for upper level courses in replacement of MAT232H5. Limited Enrolment.

Sequences and series, power series, Taylor series, trigonometric and inverse trigonometric functions and their use in integrations. Differential and integral calculus of several variables; partial differentiation, chain rule, extremal problems, Lagrange multipliers, classification of critical points. Multiple integrals, Green's theorem and related topics. [48L, 12T]

Exclusion: MAT138Y5, 232H5

Prerequisite: MAT134Y5/ 135Y5/ 137Y5 or 75% in MAT133Y5

Corequisite: MAT223H5

Limited enrolment; preference given to students enrolled in MAT or STA programs.

MAT242H5 Differential Equations I (SCI)

Ordinary differential equations of the first and second order, existence and uniqueness; solutions by series and integrals; linear systems of first order; linearization of non-linear systems. Applications in life and physical sciences. (MAT242H5 and 252H5 replace MAT258Y5.) [36L, 12T]

Exclusion: MAT212H5, 258Y5

Prerequisite: MAT233H5 or Corequisite MAT232H5.

Corequisite: MAT223H5.

Priority is given to students enrolled in MAT programs.

MAT252H5 Differential Equations II (SCI)

Power series solutions, boundary value problems, Fourier series solutions. Laplace transform, numerical methods. [36L, 12T]

Exclusion: MAT258Y5

Prerequisite: MAT232H5/ 233H5, 223H5, 212H5/ 242H5

MAT299Y5 Research Opportunity Program (SCI)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

MAT301H5 Groups and Symmetries (SCI)

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. [36L, 12T]

Prerequisite: MAT102H5, 224H5/ 248Y5

Priority is given to students enrolled in the Mathematics Specialist or Major programs or in the Information Security Specialist program.

MAT302H5 Introduction to Algebraic Cryptography (SCI)

The course will take students on a journey through the methods of algebra and number theory in cryptography, from Euclid to Zero Knowledge Proofs. Topics include: block ciphers and the Advanced Encryption Standard (AES); algebraic and number-theoretic techniques and algorithms in cryptography, including methods for primality testing and factoring large numbers; encryption and digital signature systems based on RSA, factoring, elliptic curves and integer lattices; and zero-knowledge proofs. [36L, 12T]

Exclusion: CSC322H5

Prerequisite: MAT223H5, 224H5, 301H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs or in the Information Security Specialist program.

MAT309H5 Introduction to Mathematical Logic (SCI)

The nature of axioms, proofs and consistency. Introduction to the theory of recursive functions. Gödel's incompleteness theorems and related results. This course emphasizes rigour. [36L, 12T]

Exclusion: CSC438H1

Prerequisite: MAT102H5/ PHL245H5, MAT134Y5/ 135Y5/ 137Y5, (223H5, 224H5)/ 248Y5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT311H5 Partial Differential Equations (SCI)

Partial differential equations of applied mathematics, mathematical models of physical phenomena, basic methodology. [36L, 12T]

Prerequisite: MAT102H5, 232H5/ 233H5, 212H5/ 242H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT315H5 Introduction to Number Theory (SCI)

Elementary topics in number theory such as: prime numbers; arithmetic with residues; Gaussian integers, quadratic reciprocity law, representation of numbers as sums of squares. (This course emphasizes rigour). [36L, 12T]

Prerequisite: MAT102H5, 134Y5/ 135Y5/ 137Y5/ (MAT133Y5, 233H5), 223H5, 224H5, 301H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT332H5 Introduction to Nonlinear Dynamics and Chaos (SCI)

Stability in nonlinear systems of differential equations, bifurcation theory, chaos, strange attractors, iteration of nonlinear mappings and fractals. This course will be geared towards students with interest in sciences. [36L, 12P]

Exclusion: MAT335H1

Prerequisite: MAT232H5/ 233H5, 223H5, 212H5/ 242H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT334H5 Complex Variables (SCI)

Theory of functions of one complex variable: analytic and meromorphic functions; Cauchy's theorem, residue calculus. Topics from: conformal mappings, analytic continuation, harmonic functions. [36L, 12T]

Prerequisite: MAT102H5, 232H5/ 233H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT344H5 Introduction to Combinatorics (SCI)

Basic counting principles, generating functions, permutations with restrictions. Fundamentals of graph theory with algorithms; applications (including network flows). [36L, 12T]

Prerequisite: MAT102H5, 223H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT368H5 Vector Calculus (SCI)

The implicit function theorem, vector fields. Transformations. Parametrized integrals. Line, surface and volume integrals. Theorems of Gauss and Stokes with applications. [36L, 12T]

Prerequisite: MAT102H5, 223H5, 232H5/ 233H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT378H5 Introduction to Analysis (SCI)

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. [36L, 12T]

Prerequisite: MAT102H5, (223H5, 224H5)/ 248Y5, 212H5/ 242H5/ 258Y5, 232H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT382H5 Mathematics for Teachers (SCI)

The course discusses the Mathematics curriculum (K-12) from the following aspects: the strands of the curriculum and their place in the world of Mathematics, the nature of the proofs, applications of Mathematics, and the connection of Mathematics to other subjects.

Limited enrolment. The course is open only to students in the MAT major/specialist programs, with priority to CTEP students. [36L, 12T]

Prerequisite: MAT134Y5/ 135Y5/ 137Y5/ (133Y5, 233H5), 102H5, 223H5

MAT388H5 Topics in Mathematics (SCI)

Introduction to a topic of current interest in mathematics. Content will vary from year to year. Enrolment by permission of instructors only.

Prerequisite: P.I.

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT392H5 Ideas of Mathematics (SCI)

This is a one-term course to give students extensive practice in the writing of mathematics. The format will be to study excellent expositions of important ideas of mathematics and then to assign short writing assignments based on them. [36L, 12T]

Prerequisite: Completion of the first- and second-year requirements for the Major and Specialists Programs in Mathematical Sciences.

Limited enrolment. The course is open only to students in the MAT major/specialist programs, with priority to students in the specialist program and to CTEP students.

MAT401H5 Polynomial Equations and Fields (SCI)

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. [36L, 12T]

Exclusion: MAT392H5 in 2006/2007.

Prerequisite: MAT102H5, 224H5, 232H5, 301H5.

Offered in alternate years. With instructor's permission, may be taken as a reading course. **Priority is given to students enrolled in the Mathematics Specialist or Major programs.**

MAT402H5 Classical Geometries (SCI)

(Formerly MAT365H5.) Euclidean and non-Euclidean plane and space geometries. Real and complex projective space. Models of the hyperbolic plane. Connections with the geometry of surfaces. [36L, 12T]

Exclusion: MAT365H5

Prerequisite: MAT102H5, 232H5/ 233H5, 224H5

Corequisite: MAT301H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT405H5 Introduction to Topology (SCI)

Fundamentals of set theory. Point set topology in \mathbb{R}^n . Metric spaces. Topological spaces and continuous mappings. Connectedness, compactness. Countability, separability. Topology of function spaces. Fundamental group and covering spaces. Brouwer fixed-point theorem. [36L, 12T]

Exclusion: MAT327H1

Prerequisite: MAT102H5, 224H5, 232H5/ 233H5 and at least one MAT half-course at the 300+ level with a mark of at least 65%.

Recommended Preparation: MAT378H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs. With instructor's permission, may be taken as a reading course.

MAT406H5 Mathematical Introduction to Game Theory (SCI)

Combinatorial games: Nim and other impartial games; Sprague-Grundy value; existence of a winning strategy in partisan games. Two-player (matrix) games: zero-sum games and Von-Neuman's minimax theorem; general sum-matrix games, prisoner's dilemma, Nash equilibrium, cooperative games, asymmetric information. Multi-player games: coalitions and the Shapley value. Possible additional topics: repeated (stochastic) games; auctions; voting schemes and Arrow's paradox. Mathematical tools that may be introduced include hyperplane separation of convex sets and Brouwer's fixed point theorem. Numerous examples will be analyzed in depth, to offer insight to the mathematical theory and its relation with real life situations. [36L, 12T]

Prerequisite: MAT223H5. STA257H5

Priority is given to students enrolled in the Mathematics Specialist or Major programs. With instructor's permission, may be taken as a reading course.

MAT478H5 Topics in Mathematics (SCI)

Introduction to a topic of current interest in mathematics. Content will vary from year to year. Enrolment by permission of instructor only. [36S]

Prerequisite: P.I.

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT488H5 Topics in Mathematics (SCI)

Introduction to a topic of current interest in mathematics. Content will vary from year to year. Enrolment by permission of instructor only. [36S]

Prerequisite: P.I.

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

MAT492H5 Senior Thesis (SCI)

An exposition on a topic in mathematics written under the supervision of a faculty member. Open to students in Mathematical Sciences Specialist program.

Prerequisite: MAT392H5 and 2.0 additional credits in MAT at the 300 level.

Only open to students in the MAT major/specialist programs.

MAT498H5 Topics in Mathematics (SCI)

Introduction to a topic of current interest in mathematics. Content will vary from year to year. Enrolment by permission of instructor only. [36S]

Prerequisite: P.I.

Priority is given to students enrolled in the Mathematics Specialist or Major programs.

Molecular Biology (HBSc)

This program is offered through the Biology Department

Paleontology (HBSc)

This program is offered through the Biology Department.

Philosophy (HBA)

Professors Emeriti

J.V. Canfield, A.M., Ph.D.
A. Gombay, B.A., M.A., B.Phil.
W.J. Huggett, M.A., Ph.D.

Professors

J. Brunning, B.A., M.A., Ph.D.
N. Charlow, B.A., M.A., Ph.D.
P. Clark, B.A., Ph.D.
B.D. Katz, B.A., M.A., Ph.D.
M. Matthen, B.Sc., M.A., Ph.D.
A. Mullin, B.A., M.A., Ph.D.
J. Nagel, B.A., M.A., Ph.D.
D. Raffman, B.A., Ph.D.
G. Rattan, B.Sc., M.Phil., Ph.D.
M. Rozemond, B.A., Ph.D.
U. Schloesser, M.Phil., D.Phil.
A. Sepielli, B.A., M.A., Ph.D., J.D.
S. Tenenbaum, B.A., M.A., Ph.D.
J. Weisberg, B.A., Ph.D.
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Philosophy has a distinctive place in a university. It is the place for students to study and try to answer some of the deepest questions that confront us as well as a place to acquire general intellectual skills and virtues that are important for thinking and reasoning in general, no matter what one is studying.

Philosophy asks and tries to answer some of the deepest and most persistent questions about ourselves and our relations to each other and the natural world: What is knowledge? What is justice? What is goodness? Who am I? What am I? Philosophy tries to answer these questions by employing a highly reflective methodology: by employing concepts, reasoning and strategies of explanation that have themselves been critically assessed within philosophy for their clarity, soundness and cogency. Philosophers are also aided in answering these questions by a critical engagement with the views, spread over millenia, of the likes of Plato, Aristotle, Descartes, Leibniz, Hume, Kant,

Hegel, Nietzsche, Frege and many others, on these very questions. Specialists, Majors and Minors can look forward to a substantial engagement with deep issues and thinkers.

However, philosophy is not only for Specialists, Majors and Minors. The different branches of philosophy span a very wide range of subject matters and border on subjects in the humanities, social sciences and natural sciences, including history, literature, sociology, politics, psychology, economics, biology, physics, computer science and mathematics. Philosophy has a significant methodological orientation, and reflects on norms of proof, reasoning, evidence, theorizing, modeling and explanation, which have application across a wide range of subjects. Philosophy also encourages general intellectual virtues of critical thinking, clarity in thought, writing and communication, and creativity in approaching difficult problems, which, again benefit students and have application in their thinking in whatever subject they may study. Philosophy is an excellent academic supplement for students in a wide range of disciplines.

Philosophy provides helpful training and background for various professional schools, including law and medicine, and students go on to work in a number of fields, including law, medicine, journalism, education, politics and in the technology sector.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

- CCT Communication, Culture and Information Technology (page 111)
- PHL Philosophy (page 263)

Specialist Program ERSPE0231 Philosophy (Arts)

Within an Honours degree, students must complete 10.0 credits in Philosophy, at least 4.0 of which must be at the 300/400 level and at least 1.0 of which must be at the 400 level.

Limited Enrolment – Enrolment in the Specialist Program in Philosophy is limited to students who have completed 4.0 credits including 2.0 PHL credits with a grade of 73% or higher.

The program must include:

1. at least 3.5 credits in the History of Philosophy: PHL202H5, 210Y5 and 2.0 additional credits from PHL220H5, 300H5, 307H5, 313H5, 314H5, 315H5, 324H5, 325H5, 327H5, 400H5, 416H5, 420H5;
2. at least 1.0 credit in Logic and Philosophy of Language: PHL245H5 and 0.5 additional credit from PHL246H5, 340H5, 345H5, 346H5, 347H5, 348H5, 350H5, 451H5, CCT315H5

3. at least 1.5 credits in Metaphysics and Epistemology: from PHL332H5, 333H5, 341H5, 342H5, 355H5, 358H5, 360H5, 430H5, CCT314H5, 415H5
4. at least 1.5 credits in Ethics and Political Philosophy: PHL277Y5 and 0.5 additional credit from PHL365H5, 370H5, 375H5, 380H5, 475H5.

It is strongly recommended that students begin their study of Philosophy with PHL105Y5 and that students planning to enrol in the Specialist Program in Philosophy complete PHL202H5, 210Y5, 245H5, and 277Y5 by the end of their second year. It is recommended that all students discuss their course selection requirements with the Undergraduate Advisor.

Major Program ERMAJ0231 Philosophy (Arts)

Students must complete a program of 7.0 credits in Philosophy, at least 3.0 of which must be at the 300/400 level. The program must include:

1. at least 2.5 credits in the History of Philosophy: PHL202H5, 210Y5 and 1.0 additional credit from PHL220H5, 300H5, 307H5, 313H5, 314H5, 315H5, 324H5, 325H5, 327H5, 400H5, 416H5, 420H5;
2. at least 0.5 credit in Logic: PHL245H5;
3. at least 1.0 credit in Metaphysics and Epistemology: from PHL332H5, 333H5, 340H5, 341H5, 342H5, 355H5, 358H5, 360H5, 430H5, CCT314H5, 415H5;
4. at least 1.0 credit in Ethics and Political Philosophy: PHL277Y

It is strongly recommended: that students begin their study of Philosophy with PHL105Y5; and that students planning to enrol in the Major Program in Philosophy complete at least 2.0 credits of PHL202H5, 210Y5, 245H5 and 277Y5 by the end of their second year.

Minor Program ERMIN0231 Philosophy (Arts)

4.0 credits in PHL or CCT314H5, 315H5, 415H5 are required, including at least 1.0 at the 300/400 level.

NOTE: The Undergraduate Advisor will be glad to offer advice and assistance. To arrange for advising, contact Dianne Robertson at dianne.robertson@utoronto.ca or 905-828-5201.

Notes:

- All **200-level courses**, with the exception of *PHL245H5* and *PHL247H5*, have the prerequisite that the student has completed at least 4.0 credits at the university. This prerequisite is waived for students who are taking (or have taken) a 100-level course in Philosophy. There are no other prerequisites for any 200-level courses.

- All **300-level courses**, with the exception of PHL 344H5-347H5, have a prerequisite of 1.5 credits in Philosophy. It is strongly recommended that students prepare for 300-level courses by taking two of the following: PHL100Y5/ 101Y5/ 105Y5, 200Y5/ 202H5, 210Y5, 245H5, 277Y5. Some 300-level courses have specific prerequisites or recommended preparation, as described in the course descriptions. Students who do not meet the prerequisite for a particular course but believe that they have adequate preparation should consult the Undergraduate Advisor concerning entry to the course.
- The prerequisite for **400-level courses**, except PHL451H5, is 4.5 credits in Philosophy.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

When choosing your courses, keep in mind that not all courses listed are offered every year. Some courses required to complete a program might only be offered every other year. For courses to be offered this year, consult the Philosophy website.

List of Courses

PHL105Y5 Introduction to Philosophy (HUM)

An introduction to philosophy, covering such topics as conceptions of human nature and the good life, the foundation of morality, the relation of the individual to the state, arguments for the existence of God, debates about the meaning and possibility of free will, the theory of knowledge and the nature of reality. [48L, 24T]

Exclusion: PHL100Y5, 101Y5

PHL202H5 Ancient Philosophy (HUM)

Some core texts of ancient philosophy, concentrating on the work of Plato and Aristotle. Topics include the good life, the soul, knowledge, virtue and the nature of reality. [36L]

Exclusion: PHL200Y5

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

Recommended Preparation: PHL100Y5/ 101Y5/ 105Y5

PHL210Y5 17th and 18th Century Philosophy (HUM)

Classic texts by European philosophers (e.g., Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume and Kant). Their attitudes toward science and religion, and their theories about the nature of the world and of human knowledge, culminating in the "Copernican Revolution" of Kant. [72L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

Recommended Preparation: PHL100Y5/ 101Y5/ 105Y5

PHL220H5 Introduction to Existentialism (HUM)

Human perception and knowledge of reality; freedom and the meaning of human life; sexuality and the body. Authors include Heidegger, Buber, Marcel, Camus, Sartre, de Beauvoir, Merleau-Ponty. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL224H5 Philosophy of Judaism (HUM)

An investigation of the interaction between philosophy and Judaism. Themes such as: faith and reason, chosenness and universality, revelation, divine attributes and anthropomorphism. creation, providence, divine command and ethics, religion and modernity. Figures such as Philo of Alexandria, Maimonides, Spinoza, Rosenzweig and Levinas. [36L]

PHL235H5 Philosophy of Religion (HUM)

A philosophical analysis of some basic theological questions; the nature of religious belief and experience, the relationship between religion and morality, or religion and science, the role of religion in a pluralistic society. [36L]

Prerequisite: PHL105Y5 (may be taken concurrently) or 4.0 credits

PHL241H5 Freedom and Determinism (HUM)

This course will examine the question of whether determinism is true, and to which extent and whether, determinism is compatible with the possibility that our will is free as well as the relation between freedom and responsibility. In particular, we will look at the plausibility of views such as compatibilism, hard determinism and libertarianism. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL243H5 Philosophy of Human Sexuality (HUM)

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; theories of psycho-sexual development; sexual morality; "natural," "normal," and "perverse" sex; sexual liberation; love and sexuality. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL244H5 Human Nature (HUM)

Theories of human nature, e.g., psychoanalysis, behaviourism, sociobiology. Current issues, e.g., egoism and altruism, instincts, I.Q., rationality, sanity and mental illness. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL245H5 Modern Symbolic Logic (HUM)

The application of symbolic techniques to the assessment of arguments. Propositional calculus and quantification theory. Logical concepts; techniques of natural deduction. [36L]

PHL246H5 Probability and Inductive Logic (HUM)

The elements of axiomatic probability theory, and its main interpretations (frequency, logical, subjective). Reasoning with probabilities in decision making and science. [36L]
Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

Recommended Preparation: PHL100Y5/ 105Y5/ 245H5

PHL247H5 Critical Reasoning (HUM)

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 argument and techniques of refutation; their use and abuse. [36L]

Exclusion: TRN200H1

PHL255H5 Philosophy of Science (HUM)

The nature of science and its development. Topics may include: the contrast between science and religion, between science and pseudo-science; the nature of scientific reasoning; scientific reality; science and objectivity; scientific revolutions; and the interaction between science, society, and values. [36L]

Exclusion: PHL252H5

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL258H5 Puzzles and Paradoxes (HUM)

Philosophy often begins with a puzzle or paradox. Zeno once convincingly argued that motion was impossible, but people continue to move. The "liar's paradox" seems to show that everything is both true and false, but that cannot be right. In this course, we will examine these and related issues. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits.

Recommended Preparation: PHL245H5

PHL267H5 Feminism (HUM)

Main types of feminist theory: liberal, Marxist, Existential and "Radical." A number of ethical, political and psychological issues are considered. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL271H5 Ethics and the Law (HUM)

Moral issues in the law, such as civil liberties and police powers, censorship, civil disobedience, the death penalty, inequality, paternalism and the constitutional protection of human rights. Case studies from Canadian law. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL272H5 Philosophy of Education (HUM)

The nature, aims, and content of education; learning theory; education and indoctrination; the teaching of morals and the morality of teaching; the role and justification of educational institutions, their relation to society and to individual goals; authority and freedom in the school. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL273H5 Environmental Ethics (HUM)

Environmental ethics is a relatively new development in philosophical thinking which focuses on the ethical and value questions arising from our relation to nature. Focal question of the area asks: Is the non-human world of ethical significance only insofar as it is connected with human well-being, or is ethically significant in itself? This course investigates and evaluates anthropocentrism, ecofeminism and radical biocentric theories of the deep ecologists. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL274H5 Contemporary Social Issues (HUM)

Against the background of some major social and political theories, this course will explore such practical problems as nationalism, racism, sexism, inequality, revolution and political radicalism. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL277Y5 Moral, Social, and Political Philosophy (HUM)

A survey of the major moral and political theorists/theories of the Western philosophical tradition. Questions to be addressed include: Why be moral? Why obey the law? What is justice? What are rights? What is the best form of government? [72L]

Exclusion: PHL265H1

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

Recommended Preparation: PHL100Y5/ 101Y5/ 105Y5

PHL282H5 Ethics: Death and Dying (HUM)

(Formerly PHL382H5) 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. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL283H5 Bioethics (HUM)

Moral implications of recent developments in medicine and the life sciences; related legal and social issues. Euthanasia, health care priorities, abortion, fertility control, against the background of some major ethical theories. [36L]

Exclusion: PHL281Y1

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL285H5 Aesthetics (HUM)

Some central areas in philosophy of art such as the nature of a work of art; definitions and theories of arts, aesthetic experience, perception and sensibility; objectivity in criticism; standards of taste or evaluation. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL290H5 Psychoanalysis (HUM)

An introduction to dream psychology, the psychology of errors, instinct theory, mechanisms of defence, the structure of personality. Philosophical topics include: freedom and determinism, consciousness, the nature of conscience, the status of psychoanalysis. [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL295H5 Philosophy of Business (HUM)

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 of the other way around? Do political ideas and institutions such as democracy have a role within business? [36L]

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL299Y5 Research Opportunity Program (HUM)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: PHL105Y5 (may be taken as a corequisite) or 4.0 credits

PHL300H5 Topics in Ancient Philosophy (HUM)

A study of some topic or thinker in the ancient period. [36S]

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL200Y5/ 210Y5

PHL307H5 Topics in Mediaeval Philosophy (HUM)

A study of some of the principal figures and intellectual problems in the period from the first century to the sixteenth. Figures such as Philo, Augustine, Abelard, Avicenna, Maimonides, Aquinas, Duns Scotus, Ockham and Suarez will be studied on topics in metaphysics, epistemology, ethics and philosophy of nature. [36S]

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL200Y5/ 210Y5

PHL313H5 Topics in 17th and 18th Century Philosophy (HUM)

A study of a topic or thinker in the 17th or 18th century. [36S]

Exclusion: PHL309H5, PHL310H1, PHL311H1

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL200Y5/ 210Y5

PHL314H5 Kant (HUM)

A systematic study of *The Critique of Pure Reason*. [36S]

Exclusion: PHL312H5

Prerequisite: PHL210Y5; 1.5 additional credits in PHL

Recommended Preparation: PHL245H5/ 309H5

PHL315H5 Topics in Nineteenth Century Philosophy (HUM)

A study of some topic or thinker in the 19th century. [36S]

Exclusion: PHL317H5

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL210Y5/ 309H5/ 312H5

PHL324H5 The Continental Tradition (HUM)

A study of recent traditions of continental philosophy such as phenomenology, existentialism, hermeneutics, critical theory, structuralism and post-structuralism. Figures such as Husserl, Heidegger, Sartre, the Frankfurt school, Lacan, Foucault, Deleuze and Derrida. [36S]

Exclusion: PHL320H1, 321H1

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL210Y5/ 309H5/ 312H5/ 317H5

PHL325H5 Early Analytic Philosophy (HUM)

An examination of some of the classic texts of early analytic philosophy, concentrating on the work of Frege, Russell and Wittgenstein. Central topics to be covered include: the development of logic and its relation to arithmetic; the nature of language and meaning; truth and objectivity; the distinction between sense and reference; logical analysis; the relation between language and thought; and the bounds of intelligibility. [36S]

Prerequisite: PHL245H5; 1.5 additional credits in PHL

Recommended Preparation: PHL210Y5

PHL327H5 Later Analytic Philosophy (HUM)

An examination of the later analytic tradition from logical positivism to Kripke. The course will cover some of the following topics: meaning and verifiability; the relation between science and philosophy; ordinary language and philosophy; the nature and status of the analytic-synthetic distinction; meaning and theories of meaning; theories of truth; the nature of necessity; and reference and identity. [36S]

Prerequisite: PHL 245H5; 1.5 additional credits in PHL

Recommended Preparation: PHL325H5

PHL332H5 Issues in Metaphysics (HUM)

Typical problems: ontological categories; ontological commitment; the objectivity of space and time: causality and determinism; mind and body. [36S]

Exclusion: PHL330Y1

Prerequisite: 1.5 credits in PHL

PHL333H5 Issues in Epistemology (HUM)

Typical problems: knowledge and belief, perception, the analytic-synthetic distinction, theories of truth, necessity and the a priori. [36S]

Exclusion: PHL330Y1

Prerequisite: 1.5 credits in PHL

PHL340H5 Issues in Philosophy of Mind (HUM)

Typical problems: the brain-mind identity theory; intentionality and the mental; personal identity; the nature of human action. [36S]

Prerequisite: 1.5 credits in PHL

PHL341H5 Practical Reason and Human Action (HUM)

(Formerly: Freedom, Responsibility, and Human Action)

The course will cover various topics in action theory and the nature of practical reason, such as the nature of intentional action and intentional explanations, the relation between morality and practical reason, the distinction between theoretical and practical reasoning, and the relation between motivation and evaluation. [36L]

Prerequisite: 1.5 credits in PHL

PHL342H5 Minds and Machines (HUM)

Can machines think and feel? Are human beings simply very complicated organic machines? These questions are discussed in the light of recent work on the simulation of intelligence and purposive behaviour. [36L]

Prerequisite: 1.5 credits in PHL

PHL345H5 Intermediate Logic (HUM)

A sequel to PHL245H5, developing skills in quantificational logic and treating of definite descriptions. The system developed will be used to study a selection of the following topics: philosophical uses of logic, formal systems, set theory, non-classical logics and metalogic. [36L]

Prerequisite: PHL245H5 and 1.0 credit in PHL/MAT/CSC

PHL346H5 Philosophy of Logic and Mathematics (HUM)

Platonism versus nominalism, the relation between logic and mathematics, implications of Godel's and Church's theorems, counterfactuals, necessity and possibility, extensional and intensional contexts, intuitionism. [36S]

Prerequisite: PHL245H5 and 1.0 credit in PHL/MAT/CSC

PHL347H5 Many-Valued and Modal Logics (HUM)

Many-valued and modal propositional logics and their interrelations; logical matrices and possible-world semantics; problems of interpretation and philosophical applications. [36L]

Prerequisite: PHL245H5 and 1.0 credit in PHL/MAT/CSC

Recommended Preparation: PHL345H5

PHL348H5 Metalogic (HUM)

Soundness and completeness of propositional and quantificational logic, undecidability of quantificational logic, and other metalogical topics. [36L]

Exclusion: PHL344H5, MAT309H5, CSC438H1

Prerequisite: PHL345H5 and 1.0 credit in PHL/MAT/CSC; 1.5 additional credits in PHL

PHL350H5 Philosophy of Language (HUM)

Topics may include: Different approaches to the study of language; the analysis of central theoretical notions in the descriptions of language; the relation between thought and language; the relation between philosophy of language and metaphysics. [36S]

Prerequisite: PHL245H5; 1.5 additional credits in PHL

PHL355H5 Issues in Philosophy of Science (HUM)

Central problems and contemporary issues. Topics may include: scientific inference and method; explanation; under-determination; the pessimistic induction; constructive empiricism; entity realism; structural realism; laws of nature. [36S]

Exclusion: PHL356H1

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL245H5/ 252H5

PHL357H5 Philosophy of Biology (HUM)

Conceptual issues in modern biology. Topics may include natural selection, biological kinds, the role of evolution in explaining human attributes such as rationality, cooperation, and communication, reductionism in molecular biology, and functional explanation in biology. [36L]

Prerequisite: PHL255H5/ PHL355H5

PHL358H5 Philosophy of Cognitive Science (HUM)

An examination of philosophical issues that arise in cognitive science, such as: the nature of consciousness, alternative models of computation in theories of cognition, the nature and function of perception and the emotions, the evolution of mind and language, and the relation among various fields of cognitive science such as psychology, linguistics, and neuroscience. [36S]

Prerequisite: PHL340H5/ 345H5/ 350H5; 1.5 additional credits in PHL

PHL360H5 Philosophy of the Human Sciences (HUM)

An investigation of the foundations of the human sciences, that is disciplines dealing with typically human activities, such as anthropology, economics, history, linguistics, literature, philology, psychology and sociology. The course will focus on themes such as: comparisons and contrasts with natural sciences; explanation and interpretation; individualism and holism; teleology and rationality; authorship and textuality; historicism and relativism; modernism and post-modernism. [36S]

Exclusion: PHL260H5

Prerequisite: 1.5 credits in PHL

PHL365H5 Contemporary Political Philosophy (HUM)

A study of some of the best recent work by political philosophers on topics such as justice, rights, welfare and political authority. [36S]

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL277Y5

PHL370H5 Issues in Philosophy of Law (HUM)

Major issues in philosophy of law, e.g., responsibility and punishment, the obligation to obey the law, legal positivism, law and morality. [36L]

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL271H5/ 277Y5

PHL375H5 Contemporary Moral Philosophy (HUM)

A study of some of the best recent work by moral philosophers on topics such as the objectivity of values, rights and duties, utilitarianism and the nature of moral judgments. [36S]

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL277Y5

PHL380H5 Topics in Philosophy and Feminism (HUM)

This course will examine selected philosophical topics in feminism, such as multiculturalism and women's rights, feminist epistemologies, ethics of care, the intersection between sexism and other forms of oppression, pornography. [36S]

Prerequisite: 1.5 credits in PHL

Recommended Preparation: PHL267H5/ 274H5/ 277Y5

PHL397H5 Philosophical Research: Preparing, Presenting and Revising Philosophical Scholarship (HUM)

This course, aimed particularly, but not exclusively, at majors and specialists, will deal with various aspects of the preparation of original philosophical scholarship. Students will present essays and revise them in response to student and faculty feedback. The course will examine the role played by presenting work at conferences, participating in informal reading groups, and publishing work in journals, in leading to refinement and further development of original philosophical scholarship. Readings for the class will include students' work and published philosophical scholarship in the area of students' work. [36S]

Prerequisite: 1.5 credits in PHL

PHL400H5 Seminar in Ancient and Medieval Philosophy (HUM)

Advanced discussion of principal figures and themes in ancient or medieval philosophy. [36S]

Prerequisite: 4.5 PHL credits

PHL416H5 Seminar in 17th and 18th Century Philosophy (HUM)

Advanced discussion of principal figures and themes in 17th or 18th century philosophy. [36S]

Prerequisite: 4.5 PHL credits

PHL420H5 Seminar in 19th and 20th Century Philosophy (HUM)

Advanced discussion of principal figures and themes in 19th and 20th century philosophy. [36S]

Prerequisite: 4.5 PHL credits

PHL430H5 Seminar in Metaphysics and Epistemology (HUM)

Advanced topics in metaphysics or epistemology. [36S]

Prerequisite: 4.5 PHL credits

PHL451H5 Seminar in Philosophy of Language and Logic (HUM)

Advanced topics in philosophy of language, logic, or philosophy of logic. [36S]

Prerequisite: PHL245H5; 4.5 PHL credits

PHL475H5 Seminar in Moral and Political Philosophy (HUM)

Advanced topics in moral, social, or political philosophy. [36S]

Prerequisite: 4.5 PHL credits

PHL495H5 Special Seminar: Philosophical Problems (HUM)

A seminar for advanced students in Specialist and Major Programs in Philosophy. Topic to vary from year to year. [36S]

Prerequisite: 4.5 PHL credits

PHL496H5 Individual Studies (HUM)

Contact Undergraduate Advisor. Individual study courses are aimed at highly motivated students. They are not intended to duplicate course offerings already available. A student seeking to do an independent course must secure a faculty supervisor. Regular meetings between student and supervisor are required, and the workload should be the same as a fourth-year philosophy seminar.

Prerequisite: Permission of Instructor

PHL497H5 Individual Studies (HUM)

Contact Undergraduate Advisor. Individual study courses are aimed at highly motivated students. They are not intended to duplicate course offerings already available. A student seeking to do an independent course must secure a faculty supervisor. Regular meetings between student and supervisor are required, and the workload should be the same as a fourth-year philosophy seminar.

Prerequisite: Permission of Instructor

PHL498H5 Individual Studies (HUM)

Contact Undergraduate Advisor. Individual study courses are aimed at highly motivated students. They are not intended to duplicate course offerings already available. A student seeking to do an independent course must secure a faculty supervisor. Regular meetings between student and supervisor are required, and the workload should be the same as a fourth-year philosophy seminar.

Prerequisite: Permission of Instructor

PHL499H5 Individual Studies (HUM)

Contact Undergraduate Advisor. Individual study courses are aimed at highly motivated students. They are not intended to duplicate course offerings already available. A student seeking to do an independent course must secure a faculty supervisor. Regular meetings between student and supervisor are required, and the workload should be the same as a fourth-year philosophy seminar.

Prerequisite: Permission of Instructor

Philosophy of Science (HBA)

Consult Department of Philosophy

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

PHL Philosophy (page 263)

Minor Program ERMIN1370 Philosophy of Science (Arts)

4.0 credits are required including at least 1.0 at the 300/400 level.

First Year: PHL105Y5

First or Second Year: 1.5, normally at the 100- or 200-level, from AST, BIO, ERS, CHM, PSY, PHY.

NOTE: Courses intended as science courses for students in the Humanities and Social Sciences cannot be counted towards this requirement.

Second Year: PHL255H5

Third Year: PHL342H5, 355H5

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

NOTE: Not all courses are offered each year. Please consult with the department.

Physics (HBSc)

Professors Emeriti

R.F. Code, B.Sc., A.M., Ph.D.
D.J. Dunlop, B.A.Sc., M.A., Ph.D., F.R.S.C.
R.M. Farquhar, B.A., M.A., Ph.D., F.R.S.C.

Professors

V. Barzda, Dipl. Biophys., Ph.D.
W. Ghobriel, B.Sc., M.Sc., Ph.D.
C. Gradinaru, B.Sc., M.S., Ph.D.
J.N. Milstein, B.Sc., M.Sc., Ph.D.
G.W.K. Moore, B.Sc., Ph.D.

Chair

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The domain of physics ranges from its origins in natural philosophy to the investigations of complex biological systems. Combining the power of mathematics with the art of precision experiments, Physics discovers the mechanisms that interconnect many different aspects of nature. An increasing number of activities in modern science and technology have arisen from a fundamental basis in physics. Physicists are interested in all systems that can be studied by experimental measurements, and described by mathematical models. Physicists at U of T Mississauga interact closely with astronomers, biologists, chemists, geologists and other scientists to study complex problems in these disciplines.

Students of physics develop flexible skills in experimentation, problem-solving, analytical thinking, and modeling. We offer a Specialist Program in Biomedical Physics that combines fundamental courses in physics, mathematics, chemistry, and biology together with specialized courses in biological physics. This new program has been introduced in response to the growing demand for specialists with physics background in the areas of biology and medicine. We also offer Physics Major and Minor programs. A Major or Minor in physics, in combination with another major, can strongly enhance studies in the other discipline. Besides mathematics and the other natural sciences, a major in another quantitative discipline such as computer science, management/finance, or economics is ideally suited to be combined with a Physics Major or Minor.

A physics background with its emphasis on quantitative problem solving enhances future employment opportunities in scientific research and teaching, biomedical professions, biotech and environmental organizations, industrial research and development, electronics and engineering companies, informatics and computer-related enterprises, or financial institutions.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO Biology (page 76)
CHM Chemistry (page 92)
JCP Chemistry (page 92)
MAT Mathematics (page 256)
PHY Physics (page 270)

Specialist Program ERSPE1944 Biomedical Physics Specialist (Science)

Within an Honours Degree, 13.0 credits are required.

Limited Enrolment – Enrolment in this program is based on completion of 4.0 credits including PHY135Y/(136H5, 137H5) (minimum grade of 70%).

Year 1: PHY135Y5/ (136H5, 137H5); CHM140Y5/ (110H5, 120H5); MAT134Y5/ 135Y5/ 137Y5

Year 2: PHY241H5, 242H5, 245H5, 255H5; JCP221H5/ CHM221H5; MAT232H5, 242H5; BIO206H5

Year 3: PHY324H5, 325H5, 332H5, 333H5, 347H5; JCP321H5, 322H5

Year 4: PHY433H5, 451H5, (JCP463H5, PHY473H5)/PHY489Y5; JCP421H5

PHY333H5 and JCP421H5 alternate with PHY332H5 and PHY451H5 in consecutive years. Check individual course listing for the details in a given calendar year.

Major Program ERMAJ1944 Physics (Science)

8.0 credits are required including at least 4.0 at the 300/400 level.

Limited Enrolment – Enrolment in this program is based on completion of 4.0 credits including PHY135Y/(136H5, 137H5) (minimum grade of 60%).

Year 1: PHY135Y5/ (136H5, 137H5); MAT134Y5/ 135Y5/ 137Y5

Year 2: PHY241H5, 242H5, 245H5, JCP221H5/ CHM221H5

Years 3 & 4: PHY324H5, 325H5, 347H5, 451H5;
JCP321H5, 421H5;

1.0 additional 300/400 level PHY/JCP credits.

PHY333H5 and JCP421H5 alternate with PHY332H5 and PHY451H5 in consecutive years. Check individual course listing for the details in a given calendar year.

Minor Program ERMIN1944 Physics (Science)

4.0 credits are required including at least 1.5 at the 300/400 level. Please note that a number of these courses have MAT prerequisites or corequisites.

Limited Enrolment – Enrolment in this program is based on completion of 4.0 credits including PHY135Y/(136H5, 137H5) (minimum grade of 60%).

Year 1: PHY135Y5/ (136H5, 137H5)

Year 2: PHY241H5, 242H5, 245H5

Years 3 & 4: JCP321H5, **1.0 credits from:** PHY325H5, 332H5, 333H5, 347H5, 433H5, 451H5, JCP322H5, 421H5

PHY333H5 and JCP421H5 alternate with PHY332H5 and PHY451H5 in consecutive years. Check individual course listing for the details in a given calendar year.

List of Courses

PHY136H5 Introductory Physics I (SCI)

An introductory course focusing on conceptual understanding and problem solving skills of subjects such as: Vector Kinematics; Forces and Newton's Laws of Motion; Dynamics of Uniform Circular Motion; Work and Energy; Impulse and Momentum; Rotational Kinematics; Rotational Dynamics; Simple Harmonic Motion and Elasticity; Waves and Sound; Interference Phenomena. [36L, 15P, 12T]

Prerequisite: Grade 12 Physics (SPH4U)/P.I.; Grade 12 Advanced Functions (MHF4U)(minimum of 70)

Corequisite: MAT134Y5/ 135Y5/ 137Y5

Recommended Preparation: Grade 12 Calculus & Vectors (MCV4U) highly recommended

Students without Grade 12 Physics (SPH4U) require P.I.

PHY137H5 Introductory Physics II (SCI)

An introductory course focusing on conceptual understanding and problem solving skills of subjects such as: Electric Forces and Fields; Gauss' Law; Electric Potential Energy and the Electric Potential; Electric Circuits; Kirchhoff's Rules; RC circuits; Magnetic Forces and Magnetic Fields; Ampère's Law; Electromagnetic Induction; Faraday's Law; Lenz's Law; The Special Theory of Relativity. [36L, 15P, 12T]

Prerequisite: PHY136H5 or P.I.

JCP221H5 Thermodynamics and Kinetics (SCI)

[Replaces CHM221H5] An introduction to equilibrium thermodynamics with application to ideal and non-ideal systems: covering the concepts of work and heat, the laws of thermodynamics, internal energy, enthalpy and entropy, the chemical potential, states of matter, phase rules and phase diagrams, and chemical equilibria. Kinetics topics include rate laws, both differential and integrated, rate constants, activated complex theory, and temperature effects. [36L, 15P, 14T]

Exclusion: CHM221H5, 220H1, 221H1, 225Y1

Prerequisite: MAT134Y5/ 135Y5/ 137Y5;

CHM140Y5(minimum grade of 60%)/(110H5,120H5; minimum grade of 60% in CHM120H5)/PHY135Y5/ (136H5,137H5) (minimum 60%)

Recommended Preparation: MAT212H5/ 223H5/ 232H5/ 242H5. These courses are also prerequisites for JCP321H5

PHY237H5 The Physics of the Climate System (SCI)

Introducing the basic physical processes that govern the Earth's climate system. Observation of the climate will be explained through an examination of (for example) planetary motion, the greenhouse effect, radiative transfer, energy balance, the hydrological cycle, and the atmospheric and oceanic circulations. The issue of climate change will be discussed. [24L]

Prerequisite: PHY135Y5/ (136H5,137H5); MAT134Y5/ 135Y5/ 137Y5

Not offered in 2012-13.

PHY241H5 Electromagnetism (SCI)

Topics in electricity and magnetism, beginning with vector analysis and culminating in Maxwell's equations. Electric fields and Gauss' law, conductors, capacitors and dielectrics. Magnetic fields, magnetic materials and devices, induction and Faraday's law. Maxwell's equations and electromagnetic waves are introduced. [24L, 16P, 8T]

Prerequisite: PHY135Y5/ (136H5,137H5); MAT135Y5/ 137Y5

PHY242H5 Thermal Physics and Fluid Mechanics (SCI)

An introduction to the basic concepts and modern analysis of thermal-fluid sciences. Topics include: Mechanisms of Heat Transfer; Heat Conduction; Forced and Natural Heat Convection; Radiation Heat Transfer; Fluid Statics; Fluid Kinematics; Fluid Dynamics; Bernoulli and Energy Equations; Internal Flow; Transport Processes and Diffusion; and Biomedical Applications of Thermal Physics and Fluid Mechanics. [24L, 16P, 8T]

Prerequisite: PHY135Y5/ (136H5, 137H5); MAT135Y5/ 137Y5

PHY245H5 Vibrations and Waves (SCI)

The analysis of vibrating systems and wave motion, introducing mathematical techniques such as complex numbers, eigenvalue problems, and Fourier series. Topics include: simple and coupled oscillators; dispersion relations and boundary conditions; travelling waves; propagation of electromagnetic waves in materials; reflection and transmission of waves at interfaces. [24L, 16P, 8T]

Prerequisite: PHY135Y5/ (136H5, 137H5), MAT135Y5/ 137Y5

Corequisite: MAT232H5

PHY255H5 Introduction to Biomedical Physics (SCI)

The course focuses on applying principles from introductory Physics to biomedical phenomena. The goal is to illustrate the application of physical principles in life sciences and how this enhances one's understanding of biology. Topics may vary but they will include: the elasticity of muscles, the flow of blood, the electrical signal propagation in nerve cells, the optical properties of the eye, and the sound generation in vocal cords. In addition, the physical basis of medical techniques such as ultrasound imaging, endoscopy, electrocardiography, magnetic resonance imaging, laser surgery, and radiation therapy will be treated quantitatively. [24L, 12T]

Prerequisite: PHY135Y5/ (136H5, 137H5)

PHY299Y5 Research Opportunity Program (SCI)

This course provides a rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

JCP321H5 Introduction to Quantum Mechanics (SCI)

A first course covering basic concepts of quantum chemistry and physics. Topics include: de Broglie waves and wave-particle duality, the postulates of quantum mechanics, the Schrödinger equation, the square potential well and potential barriers, the harmonic oscillator, the rigid rotor, atoms, molecules and solids. [36L]

Exclusion: CHM326H1, 327Y1

Prerequisite: PHY135Y5/ (136H5, 137H5) (minimum 60%); JCP221H5/ CHM221H5/ PHY245H5; MAT212H5/ 223H5/ 232H5

JCP322H5 Introduction to Statistical Mechanics (SCI)

Statistical methods for bridging the quantum behaviour of atoms and molecules to their macroscopic properties in solid, liquid and gaseous states. The course introduces partition functions, canonical ensembles, and their application to thermodynamic properties such as entropy, heat capacity, equilibrium constants, reaction rates, and Bose-Einstein/Fermi-Dirac distribution functions. [36L]

Exclusion: CHM328H1, 327Y1

Prerequisite: JCP321H5

PHY324H5 Advanced Physics Laboratory (SCI)

Selected physics experiments that illustrate important principles of physics. Topics include: fiber optics and laser physics, optical interferometers, atomic spectroscopy, microwave optics, absorption of gamma rays, nuclear coincidence counting, gamma ray spectroscopy, X-ray quantum physics, nuclear magnetic resonance, field emission of electrons. [72P]

Prerequisite: PHY241H5, 242H5, 245H5

PHY325H5 Mathematical Physics (SCI)

The theory and applications of mathematical methods for the physical sciences. The topics include: vector calculus, linear algebra applied to coordinate transformations, probability distributions, systems of linear ordinary differential equations and boundary value problems, Fourier analysis and orthogonal functions, Laplace's, Bessel's and the Heat equations in various coordinate systems, and use of Legendre polynomials and Spherical Bessel functions. Computational methods and standard software tools will be used to solve the complex physics problems. [24L, 12T]

Prerequisite: PHY241H5, 242H5, 245H5

PHY332H5 Molecular Biophysics (SCI)

A physicist's perspective on the building blocks of the living world, such as nucleic acids, proteins and lipids. The course will cover topics such as symmetry, structural complexity of the biological macromolecules, molecular interactions in the cellular environment and the impact for the biological function. Basic concepts from mechanics and thermodynamics will be applied specifically to proteins and DNA in order to understand structural transitions, stabilizing interactions, reaction dynamics and equilibrium. A rigorous treatment of a wide range of biophysical techniques commonly use in life science, such as optical spectroscopy, light scattering, mass spectrometry and single-molecule methods, will be accompanied by recent examples from the molecular biophysics research. [24L, 12T]

Prerequisite: PHY242H5, JCP221H5/ CHM221H5

Recommended Preparation: JCP321H5

Offered in alternate years, alternating with PHY333H5. Not offered in 2012-13.

PHY333H5 Physics of the Cell (SCI)

A biophysical description of the structural properties and biological processes of the cell. The course will focus on: membrane biophysics, osmosis and transport through membranes, cell division, differentiation and growth, cell motility and muscular movement, cellular communication, cellular signal transduction and control, nerve impulses, action potential, synaptic signal transmission, free energy transduction in biological systems and bioenergetics of the cell, photosynthesis and respiration, photobiophysics, photoreception, and bioluminescence. [24L, 12T]

Exclusion: PHY441H5

Prerequisite: PHY242H5, 255H5, JCP221H5/ CHM221H5

Offered in alternate years, alternating with PHY332H5.

Offered in 2012-13.

PHY347H5 Optics (SCI)

A comprehensive introduction to the physics of light. Topics may vary but will include: electromagnetic waves and propagation of light, basic coherence concepts and the interference of light, Fraunhofer and Fresnel diffraction, matrix methods in paraxial optics, Fresnel equations, polarization and birefringence. Technical applications will include lasers, optical fibers and optical detectors and displays. [24L, 16P, 8T]

Exclusion: PHY247H5

Prerequisite: PHY241H5, 245H5, 325H5

PHY399Y5 Research Opportunity Program (SCI)

This course provides third-year undergraduate students (after completion of at least 8 to 10 credits) who have developed some knowledge of Physics and its research methods, an opportunity to work in the research project of a professor in return for course credit. Students enrolled have the opportunity to become involved in original research, enhance their research skills and share in the excitement of acquiring new knowledge and in the discovery process of science. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: P.I.

JCP410H5 Modelling of Biochemical Systems (SCI)

An introduction to mathematical modelling of complex biological systems. The primary focus will be on biochemical kinetic models and the nonlinear dynamics that arise from them. An introduction to and survey of techniques in mathematics (especially nonlinear dynamics and stochastic processes) will be presented, along with an overview of numerical methods for computational simulation, including an introduction to molecular modelling. [24L]

Prerequisite: JCP221H5/ CHM221H5/ any PHY200 course; MAT212H5/ 223H5/ 232H5/ 233H5/ 242H5

Recommended Preparation: MAT212H5/ 242H5

Offered in alternate years, alternating with JCP422H5. Not offered in 2012-13.

JCP421H5 Quantum Mechanics (SCI)

The course offers an in-depth examination of the fundamental principles of quantum theory and a guide to its applications. Topics may vary but will include: time-independent Schrodinger equation, quantum dynamics in Heisenberg and Schrodinger pictures, time-independent perturbation theory, WKB approximation, variational method, spin, addition of angular momentum, time-dependent perturbation theory, scattering. [36L]

Prerequisite: JCP321H5, PHY325H5

Offered in alternate years, alternating with PHY451H5.

Offered in 2012-13.

JCP422H5 NMR Spectroscopy (SCI)

Fundamentals of NMR spectroscopy including classical and quantum descriptions, NMR parameters and relaxation times, product operators, multi-dimensional NMR, and solid-state techniques. [24L]

Exclusion: CHM422H5

Prerequisite: JCP221H5/ CHM221H5/ PHY241H5, 245H5; MAT212H5/ 221H5/ 258Y5

Recommended Preparation: JCP321H5

Offered in alternate years, alternating with JCP410H5.

Offered in 2012-13.

PHY433H5 Medical Physics (SCI)

An introduction to key physical principles applied to medical diagnostics, imaging and radiation therapy. Topics include: electrophysiology, electrocardiogram and encephalogram; biomagnetism, magnetocardiogram and magnetoencephalogram; atomic and nuclear physics, ionizing radiation, radioactivity, nuclear medicine; theory of image formation and analysis, X- and gamma-ray imaging, positron emission tomography; lasers, optical light-matter interactions, optical imaging and therapy; physics of ultrasound, Doppler scanning and imaging with ultrasound; principles of nuclear magnetic resonance, contrast in magnetic resonance imaging. [24L, 12T]

Prerequisite: PHY332H5, 333H5, JCP321H5, 322H5

PHY451H5 Classical Electrodynamics (SCI)

An overview of electromagnetism leading to the study of radiation. A review of electrostatics, magnetostatics, and Maxwell's equations is followed by a discussion of propagating, non-propagating and guided waves; interactions with dielectric boundaries; multipole radiation fields, and simple models of optical dispersion. [24L, 12T]

Exclusion: PHY341H5

Prerequisite: PHY241, 245H5, 325H5

Offered in alternating years, alternating with JCP421H5.

Not offered in 2012-13.

JCP463H5 Techniques in Structural Biology (SCI)

Biochemical and biophysical approaches to studies of protein interactions, structures, and dynamics. Theory and practice of specific experimental approaches will provide a fundamental understanding on information potential and technique limitations. Specific applications from the current literature will be discussed. Student evaluations will include oral presentations describing studies using the techniques. [24L, 12T]

Prerequisite: CHM361H5/ (PHY332H5/ 333H5)

Recommended Preparation: CHM362H5, JCP221H5

PHY473H5 Supervised Readings (SCI)

A program of individual study chosen by the student with the advice of, and carried out under the direction of, a Physics professor. This course is intended either for specializing further in a subject, or for exploring topics in Physics not covered by existing courses.

Prerequisite: Permission of the course co-ordinator.

JCB487Y5 Advanced Interdisciplinary Research Laboratory (SCI)

Students will work together as members of a multidisciplinary team toward the completion of an interdisciplinary experimental or theoretical research project. Teams will be comprised of at least three students, with representation from at least three areas of specialization, namely, astronomy, biology, chemistry, earth sciences or physics. The interdisciplinary projects will be based on current trends in research and student teams will work to complete their projects with guidance provided by a team of faculty advisors from the Biology Department and the Department of Chemical and Physical Sciences. In addition to the rigorous development of research skills, the course will also provide students with practical experience in project management and training in effective project management techniques. [240P]

Exclusion: BIO481Y5, CBJ481Y5, CHM489Y5, CHM499Y1, PHY489Y5

Prerequisite: 2.0 credits 300 level from BIO/CHM/JBC/JCP/PHY and 1.0 credit from BIO215H5, 314H5, CHM371H5, 391H5, 393H5, PHY324H5. The course is normally taken in the student's fourth year. In order to enroll in this course, students must obtain approval from the faculty member(s) who will serve as the supervisor(s) several months in advance of the start of the course.

Evaluation: As these are team-based projects, identical grades will be awarded to all members of a given team. This is a balloted course.

PHY489Y5 Introduction to Research in Physics (SCI)

An experimental or theoretical research problem in Physics will be investigated under the supervision of the Physics faculty. In addition to learning to plan, conduct and evaluate a research problem, students will receive training in written and oral presentation skills by writing a report and presenting a public seminar on their work. This course is normally taken in the student's fourth program year and application for enrolment should be made to the Department in the spring of the student's third year. Acceptance into the course is dependent on the student achieving a minimum GPA of 3.0 and having reached an agreement with a potential supervisor, as well as having completed the course prerequisites below. [240P].

Exclusion: PHY473H5

Prerequisite: 2.0 300 level credits in PHY/JCP; PHY324H5/ CHM371H5/ CHM391H5

Political Science (HBA)

Professors Emeriti

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Professors

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When one asks after the subject matter of Botany or Geography or Economics, one may hope for a reasonably straightforward and uncontroversial answer. But to ask after the subject matter of Political Science immediately plunges one into controversies no less deep and intractable than those that grip political life itself. What is politics? Answers range all the way from, at one extreme, Plato's "the art whose business it is to care for souls," to, at the other extreme, Harold Laswell's "who gets what, when, how." For this reason, the study of politics makes uncommon demands on one's critical faculties; in fact, it is the leading aim of political science to cultivate just this capacity for critical reflection. To be sure, the student of politics can expect to be asked to master a great mass of plain facts, with a view to explaining what makes bureaucracies work; how great powers rise and fall; what constitutes the difference between an effective public policy and a misguided one; how one designs an unbiased opinion poll; what factors shape international decision-making; and so on. Indeed, important disciplines within Political Science address questions like these. But not even the greatest exertion of fact-mongering can relieve the student of the need to ponder the more far-reaching questions: Who ought

to rule? What is legitimacy? Are liberty and equality compatible? How does one adjudicate between competing ideas about democracy? What are the abiding needs of human beings as such? Are we by nature political animals? In short, one cannot study the doings of citizens, public servants, and governments in abstraction from the attempts, from Plato onwards, to define the very nature of politics itself.

Perhaps it might be said that political science caters to every taste, from those preoccupied solely by the question of how one can rise to be premier of Ontario, to those whose chief longing is to glimpse the true nature of justice. Put less vulgarly, this suggests that the study of politics encompasses the entire range of human concerns in their full diversity. Aristotle went so far as to claim that political science is the "ruling science" insofar as it inquires not merely into this or that aspect of human affairs, but looks to the comprehensive order within which all human activities and practices are governed. It seems fair to say that the subsequent development of Political Science as an intellectual discipline has not left behind this ancient claim, but confirmed it ever anew.

Political Science graduates do not typically go on to become professional politicians. More frequently, they proceed to careers in law, journalism, the civil service and government-business relations.

Students are urged to consult the ***U of T Mississauga Political Science Handbook*** and the ***Political Science Undergraduate Studies*** (available in the Political Science office, Room 252, Kaneff Centre and on the departmental website), both of which are published in the spring, for detailed information on course offerings.

Students contemplating taking either 300- or 400-level courses in Political Science at the St. George Campus are advised to consult the website ***www.chass.utoronto.ca/polsci/*** for instructions.

Notes:

- 200-level POL courses require standing in either 1.0 POL credit or in at least 4.0 credits.
- 400-Level Topics Courses. The number of courses and the actual content of the courses will vary from year to year. For details on specific courses to be offered, along with their individual prerequisites, consult the ***U of T Mississauga Political Science Handbook***. Only minimum prerequisites are listed here.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

POL Political Science (page 275)

Specialist Program ERSPE2015 Political Science (Arts)

Within an honours degree, 10.0 POL credits are required including 4.0 credits at the 300/400 level, of which 2.0 credits must be at the 400 level.

Limited Enrolment – Students enrolling at the end of first year (4.0 credits) must obtain a CGPA of at least 2.00 and a mark of at least 67% in 1.0 POL credit. Students applying to enrol after second year (8.0 credits) must obtain a CGPA of at least 2.30 and a mark of at least 70% in each of 2.0 POL credits.

1. POL200Y5, 208Y5, 214Y5, 218Y5, 242Y, 320Y5
2. 1.0 credit in the field of Public Policy and Public Administration: POL250Y5, 316Y, 317Y5, 336Y5, 346Y, 353Y5, 368Y, 369Y
3. 3.0 additional POL courses

Major Program ERMAJ2015 Political Science (Arts)

7.0 POL credits are required including at least 2.0 credits at the 300 level.

Limited Enrolment – Students enrolling at the end of first year (4.0 credits) must obtain a CGPA of at least 2.00 and a mark of at least 65% in 1.0 POL credit. Students applying to enrol after second year (8.0 credits) must obtain a CGPA of at least 2.30 and a mark of at least 70% in each of 2.0 POL credits.

1. POL200Y, POL 214Y
2. 1.0 credit from each of two the following three fields:
 - (a) Comparative Politics - POL203Y5, 204Y5, 218Y5, 354Y5, 360H5, 361H5, 362H5, 363H5, 300Y5, 302Y5, 303Y, 309Y5, 332Y5, 440Y5, 443H5, 438H5
 - (b) International Relations - POL208Y5, 310Y5, 327Y5, 340Y5, 343Y5, 486Y5, 487H
 - (c) Public Policy and Public Administration - POL250Y5, 316Y, 317Y5, 336Y5, 346Y, 353Y5, 368Y, 369Y
3. 3.0 additional POL courses

Minor Program ERMIN2015 Political Science (Arts)

4.0 POL credits are required including at least 1.0 300-level credit and no more than 1.0 at the 100 level.

Enrolment in Political Science Specialist, Major and Combined Specialist programs is limited.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

100-Level Courses 100-level POL courses are designed to introduce students to different approaches to studying politics and to some of the theories and concepts employed by political scientists. No 100-series course is a prerequisite for upper-year POL courses.

The specific content of any 100-level course and the approach taken in it will vary from year to year depending on the instructors. For example, in one year POL114H5 might focus on international relations and in the following year it might look in detail at a particular region of the world. Similarly, in one year a course might be taught through extensive use of films and novels and the next year it might rely primarily on academic texts.

POL111H5 Canada in Comparative Perspective (SSc)

Examines major facets of Canadian government and politics within a broad comparative context asking what is different or unique about Canada and what resembles political systems elsewhere in the world, primarily western industrialized countries. Comparative analysis is used to foster a deeper understanding of Canada and its politics. [24L, 12T]

POL112H5 Democracy in Theory and Practice (SSc)

Examines current ideas about what constitutes 'democracy' and how real-world political systems measure up to democratic ideals. Through examination of formal government institutions and informal political practices, assessments will be made of the strengths and weaknesses in modern democracies. Case studies may be drawn from Canada or from other countries which claim to be democratic. [24L, 12T]

POL113H5 Ideas and Ideologies (SSc)

In this course students are introduced to basic concepts in politics such as authority, sovereignty, legitimacy, citizenship, jurisdiction, civil rights and civil liberties. These concepts are then used to examine the fundamental differences between major political ideologies, such as democracy, liberalism, socialism, fascism, conservatism, anarchism and communism. [24L, 12T]

POL114H5 Politics in the Global World (SSc)

Examines the politics of globalization in its various forms (economics, cultures, environmental and military) as well as the consequences of, management of and resistance to, globalization. Address topics such as whether globalization challenges the capacity of national societies and their governments to deal with global issues such as the environment, redistribution of wealth, security and human rights, both within countries and across borders. [24L, 12T]

POL200Y5 Political Theory (SSc)

The development of political thought to the 17th century. Among the theorists examined are Plato, Aristotle, Machiavelli, Hobbes and Locke. [48L, 24T]

Prerequisite: 1.0 POL credit/4.0 credits

POL203Y5 Politics and Government of the United States (SSc)

A comparative study of the development of American government and the main elements of the American political tradition; the structure and functioning of executives, legislatures, courts, bureaucracies, parties and pressure groups in federal and state government; characteristic processes of American politics such as voting, bargaining and regulation; and resultant patterns of public policy. [48L]

Prerequisite: 1.0 POL credit/4.0 credits

POL208Y5 Introduction to International Relations (SSc)

Themes: What causes war? How can peace be achieved and sustained? What is the nature of international society and order? What trends are emerging in international affairs as we begin a new century? The main goal of the course is to provide the conceptual and theoretical tools to understand and study world affairs in order to address these questions. Will critically assess the nature and role of actors, institutions, and political and economic forces in shaping world events. [48L, 24T]

Prerequisite: 1.0 POL credit/4.0 credits

POL214Y5 Canadian Government and Politics (SSc)

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 as a foundation for more specialized study. [48L, 24T]

Exclusion: POL100Y5, (110H5, 111H5), POL 224Y1

Prerequisite: 1.0 POL credit/4.0 credits

POL218Y5 Introduction to Comparative Politics (SSc)

An introduction to the main themes, concepts and methods in comparative politics. Comparative politics compares the ways people and institutions interact, in different countries and regions of the world (including both developing and developed), to produce what we call "politics." The course brings to bear different interpretive frameworks (political culture, political economy, identity politics, and institutional analysis) to help us understand this interaction. Topics include: the formation, development and eventual decay of political institutions such as the nation-state, political regimes, parties, party systems and local governments; the ideas and interests shaping political behaviour; and the reasons why, and the ways in which, groups mobilize politically. [48L]

Prerequisite: 1.0 POL credit/4.0 credits

POL242Y5 Methods (SSc)

This course offers an introduction to political science research methods. The course will cover basic approaches to political science, the choices that researchers have to make when designing their research and basic methods of analysis for both qualitative and quantitative data. Topics include: validity and reliability, levels of measurement, questionnaire design, experiments, elite interviews, participant observation and policy evaluation.

Prerequisite: 1.0 POL credit/4.0 credits

POL250Y5 Environmental Politics in Canada (SSc)

Analyzes environmental issues in Canadian politics. Topics include: regulation and property rights, the politics of agenda-setting; sustainable development; science in politics; the impact of federalism; and global influences on domestic policy-making. Substantive issues could include climate change, biodiversity, drinking water, land use and the degradation of natural resources. [48L]

Prerequisite: 1.0 POL credit/4.0 credits

POL300Y5 Topics in Comparative Politics (SSc)

Content of course will vary from year to year. [48L]

Prerequisite: 2.0 POL credits

POL302Y5 Politics of Western Europe and the European Union (SSc)

Political institutions and processes in Western Europe, with special reference to Britain, France, Germany and Italy. Evolution of the European Union, its institutions and policy-making system. [48L]

Prerequisite: 2.0 POL credits, including POL218Y5

POL303Y5 The Politics of Islam (SSc)

The course examines the theory and practice of Islamic politics in the modern era. It also looks at Western foreign policy and Western cultural reactions to politics in the Muslim world. The aim is to acquaint students with the diversity within the Muslim world and help them better understand some of the most pressing political issues raised by contemporary Islam.

Exclusion: POL300Y5, POL300Y1

Prerequisite: any 2.0 POL credits

POL309Y5 The State, Planning and Markets (SSc)

A study of the political economy of planning and markets, the history of both forms of organization, the political philosophies of liberalism and Marxism upon which they have been based, and the issues of economic efficiency, justice and democratic control in capitalism and socialism. [48L]

Prerequisite: POL200Y/ECO100Y

POL310Y5 Managing International Military Conflict (SSc)

Analysis of different aspects of conflict management, including security regimes, U.N. peacekeeping, mediation, bilateral as well as multilateral techniques. [48L]

Prerequisite: POL208Y5

POL316Y5 Contemporary Canadian Federalism (SSc)

Constitutional, political, administrative, and financial aspects of federal-provincial relations, regionalism and cultural dualism. [48L]

Prerequisite: POL100Y5/ 102Y1/ (110H5, 111H5)/ 214Y5

POL317Y5 Comparative Public Policy and Administration (SSc)

Major theories and concepts in the fields of public administration and public policy, drawing on the experience of advanced industrialized nations. [48L]

Prerequisite: POL203Y/218Y/302Y/309Y/353Y

POL320Y5 Modern Political Thought (SSc)

The development of political thought in the 18th and 19th centuries, including Rousseau, Burke, Hume, Kant, Hegel, the English Utilitarians (Bentham and J.S. Mill), Marx and Nietzsche. [48L]

Prerequisite: POL200Y5

POL322Y5 Enlightenment and Theocracy (SSc)

A survey of modern political theories, from Machiavelli onwards, bearing on the problem of religion and politics. The course includes discussions of Hobbes, Spinoza, Locke, Rousseau, and Kant, as well as anti-liberal thinkers such as Maistre and Nietzsche. Themes include toleration, the Enlightenment, civil religion, and theocracy.

Prerequisite: POL 200Y, but POL 320Y is recommended

POL327Y5 Comparative Foreign Policy (SSc)

Comparative study of the foreign policies of Russia/USSR, the United States, Great Britain, France and Germany. [48L]

Prerequisite: POL208Y5

POL336Y5 Ontario Politics (SSc)

Examines the influence of social and economic forces on contemporary Ontario politics, with emphasis on major recent changes in the Ontario political system. Topics include: political parties and elections, structures of governance (cabinet, legislature, etc.), local government and selected public policy issues. [48L]

Exclusion: POL336H1

Prerequisite: POL100Y5/ 102Y1/ (110H5, 111H5)/ 214Y5

POL340Y5 International Law (SSc)

International law as an instrument of conflict resolution. Recognition, sovereign immunity, subjects of international law, and jurisdiction are some of the subjects examined. [48L]

Prerequisite: POL208Y5

POL343Y5 Politics of Global Governance (SSc)

Examines the changing nature and forms of governance in the international system. It explores why and how international institutions and organizations arise; the goals, roles, and effectiveness of institutions in managing global problems and creating order and stability, and whether the rules and norms created by such institutions alter state behaviour, influence domestic policies, and/or challenge state sovereignty. [48L]

Exclusion: POL328Y5

Prerequisite: POL208Y5

POL346Y5 Urban Politics (SSc)

This course compares urban politics in North America and Western Europe, with a particular emphasis on Canadian cities, and examines how urban political dynamics in different local and national settings shape responses to urban policy issues. The course also examines the changing role of cities in the global economy, introducing key theories and concepts in urban political analysis.

Prerequisite: Any 2.0 POL credits

POL353Y5 Canadian Public Policy: From the Golden Age to the Era of Globalization (SSc)

Examines the changing international context of Canadian public policy and its implications for the scope of public policy in Canada. Reviews the course of public policy over the postwar period and the changing capacity of the national government to respond to the pressures and challenges of the international economy. Focuses on the implications of these developments for specific areas of public policy, such as macroeconomic policy, social policy, industrial policy, trade policy and cultural policy. [48L]

Exclusion: POL209Y5

Prerequisite: POL100Y5/ (110H5, 111H5)/ 214Y5

POL354Y5 Russian Politics (SSc)

The formation and development of the Soviet System of government under Lenin and Stalin; Soviet politics in the post-Stalin era and the struggle for reform; the collapse of Communist party rule and the Soviet state; government and politics in the new Russia, with comparisons to other successor states. [48L]

Exclusion: POL204Y5, POL204Y1

Prerequisite: 2.0 POL credits

POL355Y5 Multiculturalism and Citizenship (SSc)

How are laws, policies, and social norms affected by the overwhelmingly multicultural character of contemporary societies? This course examines how the realities of contemporary multiculturalism have reshaped civic life, both in Canada and in other societies. The course will attempt to cover both empirical and theoretical-normative approaches to these issues.

Prerequisite: Any 2.0 POL credits

POL360H5 State, Society and Regime Change in Latin America (SSc)

Comparatively analyzes states and societies in Latin America and the historical foundations of political regimes in the region. Examines types of political regimes (authoritarian and democratic) and the sources and types of regime change, with special emphasis on democratization. Theoretical discussion is followed by case studies. [24L]

Prerequisite: POL201Y5/ 218Y5

POL361H5 After Regime Change: The Quality of Democracy in Latin America (SSc)

Explores Latin America's efforts to build a liberal democratic order in the face of powerful challenges. Examines both the advances and setbacks of democracy in the region since the early 1980s. Particular attention is devoted to problems of institutional design and the potential contribution of institutional engineering. [24L]

Prerequisite: POL360H5

POL368Y5 Women and Politics (SSc)

An introduction to gender and politics that examines women as political actors and their activities in formal and grassroots politics. The course also explores the impact of gender in public policy and how public policies shape gender relations.

Exclusion: POL 351Y1

Prerequisite: 2.0 POL credits

POL369Y5 Media and Politics (SSc)

The role of the mass media in shaping (perceptions of) the political world and in enhancing or diminishing democracy; government regulation of media; the question of bias in political reporting; media ownership and concentration; the political significance of 'new' media; the interplay of media technology and politics. [48L]

Exclusion: POL213Y

Prerequisite: 2.0 POL credits/2.0 CCIT/VCC credits

POL399Y5 Research Opportunity Program (SSc)

This course provides a richly rewarding opportunity for students in their third year to work in the research project of a professor in return for 399Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: 1.0 POL credit

POL404Y5 Contemporary Political Philosophy (SSc)

The purpose of the course is to survey the work of some leading political philosophers of the 20th century. The focus will be on six key thinkers: Hannah Arendt; Leo Strauss; Alasdair MacIntyre; Michel Foucault; Jurgen Habermas and John Rawls.

Prerequisite: POL 200Y and POL 320Y

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL438Y5 Topics in Comparative Politics (SSc)

Content of course will vary from year to year. Consult the **Political Science Handbook**. [24S]

Prerequisite: POL218Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL440Y5 Politics and Governments of Eastern Europe (SSc)

Comparative analysis of the former Communist states of Eastern Europe and the post-Communist successor states. [48S]

Prerequisite: POL204Y5/ 208Y5/ 354Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL443Y5 Topics in Comparative Politics (SSc)

Content of course will vary from year to year. Consult the **Political Science Handbook**. [24S]

Prerequisite: POL218Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL455Y5 The Craft of Political Research (SSc)

A first-hand exploration of the conceptual, analytic and practical issues arising in the conduct of research in political science. After reading books and articles published by UofT political scientists, students will meet with the authors to discuss the authors' research, addressing concerns such as framing the research question, developing a research design, securing funding, conducting interviews and archival research, gathering quantitative data, analysis and publication of results. [48S]

Prerequisite: Enrollment limited to POL Specialists and Joint Specialists with at least 6.0 POL credits and P.I.

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL476H5 Topics in Political Economy (SSc)

Content of course will vary from year to year. Consult the **Political Science Handbook**. [24S]

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL477H5 Topics in Political Economy (SSc)

Content of course will vary from year to year. Consult the **Political Science Handbook**. [24S]

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL478Y5 Moral Reason and Economic History (SSc)

A study of the interaction between political philosophy and economic history. The course involves alternative conceptions of the relation between individuals and the community, between the economy and the political order, between what 'is' and what 'ought to be'. [48S]

Prerequisite: POL320Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL484Y5 Topics in Political Thought (SSc)

Content of course will vary from year to year. Consult the **Political Science Handbook**. [48S]

Prerequisite: POL320Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL485H5 Topics in Political Thought (SSc)

Content of course will vary from year to year. Consult the **Political Science Handbook**. [24S]

Prerequisite: POL320Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL486Y5 Topics in International Relations (SSc)

Content of course will vary from year to year. Consult the **Political Science Handbook**. [48S]

Prerequisite: POL208Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL487H5 Topics in International Relations (SSc)

Content of course will vary from year to year. **Consult the Political Science Handbook**. [24S]

Prerequisite: POL208Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL490H5 Topics in Canadian Politics (SSc)

Content of course will vary from year to year. Consult the **Political Science Handbook**. [24S]

Prerequisite: POL100Y5/ (110H5, 111H5)/ 214Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL494Y5 Topics in Canadian Politics (SSc)

Content of course will vary from year to year. Consult the **Political Science Handbook**. [48S]

Prerequisite: POL100Y5/ (110H5, 111H5)/ 214Y5

Restrictions: 1) 400-series POL courses are limited to POL Specialists and Joint Specialists; 2) No POL Specialist may take more than 2.0 POL credits at the 400-level (1.0 for Joint Specialists).

POL495Y5 Undergraduate Reading Course (SSc)

This is a student-initiated course of reading and research on a specialized topic of interest to the student. It is normally only open to students enrolled in Political Science Specialist and Major programs. Students wishing to enrol must find a faculty member willing to supervise the course, develop a program of study in consultation with the supervisor and obtain written approval for the course from the chair.

Prerequisite: Permission of Instructor and of the Chair

POL496H5 Undergraduate Reading Course (SSc)

This is a student-initiated course of reading and research on a specialized topic of interest to the student. It is normally only open to students enrolled in Political Science Specialist and Major programs. Students wishing to enrol must find a faculty member willing to supervise the course, develop a program of study in consultation with the supervisor and obtain written approval for the course from the chair.

Prerequisite: Permission of Instructor and of the Chair

Professional Writing and Communication (HBA)

Professors

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Professional Writing and Communication (PWC) refers to the principles of communication articulated in classical rhetoric and updated through contemporary theory and practice in professional settings. PWC treats communication as interdisciplinary and socially situated. Program courses emphasize communications based on primary research.

The PWC curriculum grows out of composition, genre, and discourse theories – research grounded in anthropology, philosophy, psychology, sociology, linguistics and literary theory. PWC students examine the way communication, especially written communication, works in professional, academic, artistic, personal and public settings.

PWC aims to produce critical thinkers and flexible, reflective writers and researchers who apply their knowledge of language and communications principles across disciplines.

Note on Writing-intensive Courses: To count a writing-intensive course towards the completion of the Professional Writing and Communication **Major** or **Minor**, students must submit to the student advisor evidence that 50% or more of the course final mark is based on written and/or oral presentation work. Students must submit a copy of the course syllabus or a letter from the course instructor.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
BIO	Biology (page 76)
CCT	Communication, Culture and Information Technology (page 111)
CLA	Classics (page 100)
ENG	English (page 153)
HSC	Biomedical Communications (page 85)
JAL	Linguistics (page 242)
LIN	Linguistics (page 242)
PHL	Philosophy (page 263)
PSY	Psychology (page 287)
SOC	Sociology (page 296)
WRI	Professional Writing and Communication (page 281)

Major Program ERMAJ1302 Professional Writing and Communication (Arts)

The Major Program requires 7.0 credits, including at least 2.0 at the 300/400 level. This program must be combined with another major or specialist.

Limited Enrolment – Admission into the PWC Major Program is by application. To be considered for admission into the program, students **MUST** submit the application available at www.utm.utoronto.ca/pwc, in addition to requesting the Subject POST on ROSI.

Meeting the minimum requirements does not guarantee admission into the program. Minimum Requirements

1. Completion of 4.0 credits.
2. A minimum Cumulative Grade Point Average of at least 2.5 OR a grade of at least 75% in WRI203H5. The actual CPGA requirements or grade requirements in any particular year may exceed these values in order for us to balance enrolments and teaching resources.
3. **PWC Direct On-Line Applications and Application Procedures are available on the Professional Writing and Communication website at: www.utm.utoronto.ca/pwc**

Applications are accepted only during Subject POST periods.

First Year or 2nd: WRI203H5 (a prerequisite for all other WRI courses)

Upper Years: 2.5 to 6.5 credits from any WRI course.

A maximum of 2.0 Elective credits from:

ANT204Y5/ 206H5/ 362H5/ 401H5/ 460H5/

BIO201H5/ 211H5/

CCT260H5/ 305H5/ 354H5/CCT360/

CLA201H5/

ENG266H5/ 271H5/ 357H5

HSC300H5/ HSC301H5/ 302H5/

LIN200H5/ 203H5/ 204H5/JAL253H5/ 355H5/ 366H5

PHL247H5/ 255H5/ 350H5/

PSY315H5/ 374H5/ 376H5

SOC284H5/ 309H5

A maximum of 2.0 credits of approved writing-intensive courses.

Minor Program ERMIN1302 Professional Writing and Communication (Arts)

This program must be taken as part of an Honours degree. The Professional Writing and Communication Minor must be combined with another major or specialist.

4.0 credits are required including at least 1.0 at the 300/400 level:

Limited Enrolment – Enrolment in this program is limited to students who have:

1. Completed 4.0 credits; 2. A minimum Cumulative Grade Point Average (CGPA) of at least 2.0 OR a grade of at least 70% in WRI203H5.

First Year or 2nd: WRI203H5 (a prerequisite for all other WRI courses)

Upper Years: 1.5 - 3.5 WRI credits;

A maximum of 2.0 credits of approved writing-intensive courses or writing-related elective courses. Please contact the department for information on acceptable courses.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

WRI203H5 Expressive Writing (SSc)

Examines theory and offers practice in expressive narrative, the most basic prose mode and the foundation for other prose modes. Students explore ideas about product and process, form and meaning. Students will experiment with syntactic structures to explore how the form of language serves, or fails to serve, intention and the expression of meaning that may be understood and interpreted by others. The course draws on theorists including Aristotle, Chomsky, Elbow, Kinneavy, Britton, Bakhtin. [24L, 3T]

WRI299Y5 Research Opportunity Program (SSc)

This courses provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

WRI303H5 Specialized Prose (SSc)

Examines theory and offers practice in nonfiction prose with a range of specialized purposes. Students will explore conceptions of genre and the way genre shapes, and is shaped by, the social context of communications. The course considers rhetorical devices and figures of speech, such as metaphor and irony, and the way these formal elements influence meaning and the way their application depends on a community of understanding. The course draws from a range of theorists from Aristotle to Rorty, Bazerman, and Fish [24L, 3T]

Prerequisite: WRI203H5

WRI307H5 Science and Writing (SSc)

Examines science as rhetoric and the way this rhetoric mixes with other rhetorics from an interdisciplinary perspective appropriate for science students and for humanities and social science students. The course examines scientific writing and journalistic writing about science. Through theory and applied research and writing, students consider the special features of science rhetoric including protocols for research and documentation. This course draws from a range of theorists including Kuhn, Popper, Hempel, Hacking. [24L, 3T]

Prerequisite: WRI203H5

WRI310H5 Social and Professional Languages (SSc)

Examines language by approaching it through its social users – ethnic groups, genders, and social classes – and its contextualized usages – the languages of publishing, advertising, law, technical communications, academe and the electronic media. The course explores the functions of these languages and the roles of such forces as dictionaries, social change, and new communications technologies in the evolution of these languages. [24L, 3T]

Prerequisite: WRI203H5

WRI320H5 History and Writing (SSc)

Examines written history as rhetoric and considers various conceptions of history and procedures for historical research and writing with reference to a range of models from Thucydides to contemporary writers of specialized and local histories. Students will conceptualize, design, and carry out primary source historical research to produce original history using locally available sources and materials. [24L, 3T]

Prerequisite: WRI203H5

WRI325H5 Community and Writing (SSc)

Examines writing/communication as a social act that both shapes and is shaped by the discourse community where it takes place. Students will explore genre as part of a social system with reference to theories by Fairclough, Kuhn, Lemke, Rorty, Geertz, Swales, Bakhtin. Students will design and carry out primary research that explores the social character of communication. [24L, 3T]

Prerequisite: WRI203H5

WRI327H5 Writing in Social Media: The Impact of Web 2.0 (SSc)

Examines theory and offers practice in writing in Social Media. The course explores the growth of the Web 1.0 model to the Web 2.0 model, from information gathering to interactive and cooperative information/opinion dissemination. Students will critically examine the rhetorical practices of Social Media users and how these practices currently shape communications network. Students will create and maintain blogs. The course draws on a range of theorists and social media experts including Marshall McLuhan, Darren Barefoot and Julie Szabo, Ken Wilber, Chris Brogan and Julien Smith.

Prerequisite: WRI203H5

WRI330H5 Oral Rhetoric (SSc)

Examines the rhetoric of speech drawing on theorists from Plato to Havelock to Ong, and considers implications of "great leap models" that present orality and literacy on a continuum. This course considers a range of oral practices from informal to formal, and from spontaneous to research-based and examines a range of rhetorical modes: dialogue, storytelling, "street-talk," reporting, debate and presentational address. Significant course time will be devoted to students' oral performance, both individual and team-based. [24L, 3T]

Prerequisite: WRI203H5

WRI340H5 Critical Reading and Listening (SSc)

Examines the role and responsibility of the communicator across a range of rhetorical settings extending from the private to the public sphere. Drawing on theorists such as Bordieu, Bakhtin, Eco, Fairclough, Foucault, Habermas, Lacan and Lemke for principles of discourse analysis, students learn to recognize, analyze and question the social, political, cultural, ethical and economic dynamics of "text" in order to become critical interpreters of rhetoric across a range of multi-modal, multi-medial forms. [24L, 2T]

Prerequisite: WRI203H5

WRI360H5 Finance and Writing (SSc)

Examines organizational discourse with special attention to financial analysis and financial documents as rhetorical elements. Students will design and carry out primary research into organizations such as publicly listed companies and non-profit organizations and will examine different modes for reporting research findings. Principles of discourse analysis and genre theory provide a conceptual framework. Students do not need backgrounds in accounting or finance to manage this course. [24L, 3T]

Prerequisite: WRI203H5

WRI370H5 Writing about Place (SSc)

Examines writing about geographic places and the multiple rhetorics — scientific, historical, geographical, social, political, economic — that come into play. Students will design and carry out original primary research to develop their writing projects. [24L, 3T]

Prerequisite: WRI203H5

WRI375H5 Writing about Environment and Ecology (SSc)

Examines the evolving rhetoric of scientific, journalistic, legal and political writing about environmental issues. The course will consider eco-linguistic theory and eco-critical discourse analysis. Through theory and applied research, including primary research, and writing, students will consider protocols, research standards, and ethics in writing about environment and appraise current issues around the emerging language of sustainability. [24L]

Prerequisite: WRI203H5

WRI380H5 Documentary Scripting and Production for Electronic Media (SSc)

Examines theories and research and production techniques for texts meant for electronic media. Students will design and carry out original primary research to script, edit and produce texts for podcasts. [24L, 3T]

Prerequisite: 2.0 WRI credits

WRI390H5 Independent Studies (SSc)

A research/writing project designed by the student in consultation with a faculty member. Independent Study students will produce a substantial body of writing at a high professional standard submitted in weekly installments and will develop their drafts in editing sessions with other Independent Studies students. Students will also design and carry out a reading program. The Project Supervisor will be chosen in consultation with the Program Coordinator. Students may not take WRI390H5 and WRI391H5 in the same term.

Prerequisite: 8.0 credits including 3.0 WRI credits with a mark of 77% or higher in each and permission of Program Coordinator. Check web for application details. **Web:**

www.utm.utoronto.ca/pwc

WRI391H5 Independent Studies (SSc)

A research/writing project designed by the student in consultation with a faculty member. Independent Study students will produce a substantial body of writing at a high professional standard submitted in weekly installments and will develop their drafts in editing sessions with other Independent Studies students. Students will also design and carry out a reading program. The Project Supervisor will be chosen in consultation with the Program Coordinator. Students may not take WRI390H5 and WRI391H5 in the same term.

Prerequisite: 8.0 credits including 3.0 WRI credits with a mark of 77% or higher in each and permission of Program Coordinator. Check web for application details. **Web:**

www.utm.utoronto.ca/pwc

WRI392H5 Research and Writing (SSc)

Examines principles, procedures and practice of original research that culminate in writing and terms that accompany the discourse of research: evidence, results, validity, theory, data, significance with reference to theorists such as Eisner, Geertz, Bogden and Biklen, Clifford and Marcus, Glesne and Peshkin, Strauss and Corbin. Students will design and carry out limited qualitative research projects and will consider criteria for evaluating communications values in research-based writing. [24L, 3T]

Prerequisite: 2.0 WRI credits

WRI395H5 Re-linguaging: Writing Across Cultures and Languages (SSc)

Explores the issues beyond translation that bi- or multilingual writers face when they relanguage experiences in one culture and language into another. Students will consider humour, stereotypes, cultural representations, identities, rhetorical and narrative norms through the theoretical lenses of Bhabha, Bakhtin, Halliday, Lemke, Hall, Trinh and others. [24L, 3T]

Prerequisite: 2.0 WRI credits

WRI410H5 Professional Writing and Communication Internship 1 (SSc)

This course is a practical internship and is available only upon application from PWC Majors. Through a placement, students will apply their expertise in writing, editing and communications. Students must plan well in advance for their placement and work closely with CCIT/PWC placement officer to determine eligibility and suitability. A report of the placement, samples of work completed on the placement and a presentation about it will be required at the end of the placement. These, and the employer's assessment, will determine the course mark.

Exclusion: CCT410H5, 411H5

Prerequisite: Completion of 13 credits; minimum CGPA 2.5; and permission of the Internship Coordinator.

WRI411H5 Professional Writing and Communication Internship II (SSc)

This course is a practical internship and is available only upon application from PWC Majors who have completed WRI410H5. The course is intended for students who have the opportunity to continue their WRI410H5 internship for a second semester. A report of the placement, samples of work completed on the placement and a presentation about it will be required at the end of the placement. These, and the employer's assessment, will determine the course mark.

Exclusion: CCT410H5, 411H5

Prerequisite: Completion of 13 credits; minimum CGPA 2.5; and permission of the Internship Coordinator.

WRI420H5 Making a Book (SSc)

Examines principles, procedures and practices in book publishing. Students, working collaboratively, will collect material for, design, edit, typeset, print and assemble books. Students will consider philosophical, aesthetic, and economic factors that guide publishing, editing and design decisions. Students must apply using the on-line application form on the PWC website to take this course. Students who do not receive formal permission may not take this course. [24L, 3T]

Prerequisite: 3.0 WRI credits and P.I.

WRI430H5 Journalistic Investigation (SSc)

Examines principles, practices, and rhetorical issues in journalistic investigation and writing. The course will consider various models. Students will design and carry out investigative projects that culminate in a series of journalistic articles. [24L, 3T]

Prerequisite: 1.5 WRI credits and P.I.

WRI490H5 Special Topics in Writing and Text Production (SSc)

An in-depth examination of topics in writing and text production. Topics vary from year to year, and the content in any given year depends upon the instructor. [24L]

Prerequisite: 3.0 WRI credits and permission of instructor

Psychology (HBSc)

The Psychology Department offers the following programs:

- 1) Psychology**
- 2) Exceptionality in Human Learning**
- 3) Behaviour, Genetics and Neurobiology**

We also participate in one other program offered in conjunction with Forensic Science:

1) Forensic Psychology

Please consult the above programs listed elsewhere in this calendar.

Professors Emeriti

T.M. Alloway, B.A., M.A., Ph.D.
K.R. Blankstein, B.A., M.A., Ph.D.
P. Pliner, B.S., Ph.D.
S.E. Trehub, B.Com., M.A., Ph.D.

Professors

J.P. Andersen, B.Sc., M.A., Ph.D.
C.G. Chambers, B.A., M.A., Ph.D.
M. Daneman, B.A., M.A., Ph.D.
A.S. Fleming, B.Sc., Ph.D.
R.T. Gerlai, M.Sc., Ph.D.
D.J. Graham, B.A., M.A., Ph.D.
M.M. Holmes, B.A., M.A., Ph.D.
E.A. Impett, B.Sc., M.A., Ph.D.
E.K. Johnson, B.A., M.A., Ph.D.
S.B. Kamenetsky, B.A., M.A., Ph.D.
G.W. Kraemer, B.A., B.Sc., MS., Ph.D.
T. Malti, B.Sc., M.A., Ph.D., Habil.
D.A. Monks, B.Sc., M.A., Ph.D.
M.K. Pichora-Fuller, B.A., M.Sc., Ph.D.
J. Polivy, B.Sc., M.A., Ph.D.
E.M. Reingold, M.A., Ph.D.
E.G. Schellenberg, B.Sc., Ph.D.
U. Schimmack, B.A., M.A., Ph.D.
B. Schneider, B.A., Ph.D.
M.L. Smith, B.Sc., M.Sc., Ph.D.
D. Urbaszat, B.Sc., LL.B., M.A., Ph.D.

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Psychology is the science that examines the structure and function of behaviour in humans and animals. It is concerned with the processes by which behaviour is acquired, maintained, and developed through adaptive interaction with the physical and social aspects of the

environment. Emphasis is on the genetic, physiological, sensory, cognitive, personal development, and social structures that mediate behaviour.

Among the topics covered by Psychology courses are life-span developmental changes in behaviour, modes of sensing, perceiving and responding to the environment, learning and cognition, the origins and implications of drives, motives, conflicts and emotions, and the wide variety of individual and species differences that are produced by differences in genetic background, physiology and past experience.

Psychological science strives to achieve the highest levels of rigor and objectivity in its study of behaviour by relying upon an extensive array of scientific methodologies and instrumentation. Since Psychology is concerned with the behaviour of all organisms, the study of animal behaviour constitutes an important part of many Psychology courses. An intensive examination of empirical research findings is paramount in all Psychology courses.

Students who are interested in Psychology as a career must be prepared for several years of graduate study. Persons who hold a PhD in Psychology find employment in universities, research institutes, the educational system, hospitals and clinics, government agencies and large corporations; a few work as self-employed consultants or therapists. The BSc with a concentration in Psychology is not in itself a professional qualification. People holding bachelor's degrees in Psychology typically find employment in business, technical, educational or social-service areas. Formal or on-the-job training is usually required. More in general, undergraduate courses in Psychology may be valuable to students planning professional careers in medicine, law, nursing and education, for example, and to anyone who wishes to acquire the fundamentals of modern society's understanding of behaviour.

Further information is available from the Undergraduate Director.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO	Biology (page 76)
ECO	Economics (page 143)
PSY	Psychology (page 287)
SOC	Sociology (page 296)
STA	Statistics (page 306)

Specialist Program ERSPE1160 Psychology (Science)

At least 10.0 credits in Psychology are required. At least 5.0 credits must be at the 300/400 level of which at least 1.0 must be at the 400 level. A single course can be used to satisfy only one Psychology program requirement.

Limited Enrolment – Enrolment in this program is limited to students who have:

1. completed any Gr.12(4U) Mathematics or equivalent*;
2. completed 8.0 credits;
3. at least 77% as the average of PSY201H5, 202H5, and at least 1.5 FCE in 200 series PSY courses; and
4. a minimum CGPA of 3.0.

***Students applying to this program from 2014/15 will be required to have completed Grade 12(4U) Biology and Advanced Functions or equivalent.**

Psychology Department website:

www.utm.utoronto.ca/psychology

First Year: PSY100Y5

Second Year:

1. (PSY201H5, 202H5)/ (BIO360H5, 361H5)/ (ECO220Y5/ 227Y5)/ (STA220H5, 221H5)
2. 2.5 credits from the following courses: 0.5 credit must be taken from each of the following groups and one additional 0.5 credit from groups a) or b)
 - (a) Biological Bases of Behaviour: PSY252H5, 290H5, 295H5
 - (b) Perception/Cognition/Communication: PSY270H5, PSY274H5, 280H5
 - (c) Social/Personality/Abnormal: PSY220H5, 230H5, 240H5
 - (d) Developmental: PSY210H5, 213H5

Third Year:

1. PSY309H5
2. One laboratory course from the following: PSY319H5, 329H5, 379H5, 399H5
3. 2.5 credits from the following courses: 0.5 credit must be taken from each group:
 - (a) Biological Bases of Behaviour: PSY318H5, 346H5, 351H5, 353H5, 354H5, 355H5, 362H5, 372H5, 393H5, 395H5, 397H5, 398H5; BIO304H5, 310H5, 318Y5, 328H5
 - (b) Perception/Cognition/Communication: PSY312H5, 315H5, 316H5, 331H5, 351H5, 360H5, 362H5, 371H5, 372H5, 374H5, 376H5, 384H5, 385H5, 387H5, 393H5, 397H5

- (c) Developmental/Abnormal/Social/Personality: PSY310H5, 311H5, 312H5, 315H5, 316H5, 318H5, 320H5, 321H5, 324H5, 325H5, 327H5, 328H5, 331H5, 333H5, 340H5, 341H5, 343H5, 344H5, 345H5, 346H5, 353H5

Fourth Year:

1. PSY400Y5/ 403H5/ 404H5/ 405H5/ 406H5
2. one of the following: PSY402H5, 410H5, 415H5, 420H5, 430H5, 435H5, 440H5, 442Y5, 471H5, 480H5, 490H5, 495H5; BIO403H5, 407H5

Major Program ERMAJ1160 Psychology (Science)

6.5 credits in Psychology are required, including 2.0 at the 300/400 level. A single course can be used to satisfy only one Psychology program requirement.

Limited Enrolment – Enrolment in this program is limited to students who have:

1. completed any Gr.12(4U) Mathematics or equivalent;
2. completed 4.0 credits;
3. a grade of at least 63% in PSY100Y5; and
4. a minimum CGPA of 2.0.

***First year students applying to this program from 2014/15 will be required to have completed Grade 12(4U) Biology and Advanced Functions or equivalent.**

Students not initially meeting these requirements may be admissible after meeting the second-year requirements. Further information is available on the Psychology Department web site:

www.utm.utoronto.ca/psychology

First Year: PSY100Y5

Higher Years:

1. PSY201H5/ BIO360H5/ ECO220Y5/ 227Y5/ SOC350H5/ STA218H5/ 220H5
2. 2.5 credits from the following courses: 0.5 credit must be taken from each group.
 - (a) Biological Bases of Behaviour: PSY252H5, 290H5, 295H5
 - (b) Perception/Cognition/Communication: PSY270H5, 274H5, 280H5
 - (c) Social/Personality/Abnormal: PSY220H5, 230H5, 240H5
 - (d) Developmental: PSY210H5, 213H5
3. 1.5 credits from the following courses: 0.5 credit must be taken from each group:

- (a) Biological Bases of Behaviour: PSY318H5, 346H5, 351H5, 353H5, 354H5, 355H5, 362H5, 372H5, 393H5, 395H5, 397H5, 398H5; BIO304H5, 310H5, 318Y5, 328H5

- (b) Perception/Cognition/Communication: PSY312H5, 315H5, 316H5, 331H5, 351H5, 360H5, 362H5, 371H5, 372H5, 374H5, 376H5, 384H5, 385H5, 387H5, 393H5, 397H5

- (c) Developmental/Abnormal/Social/Personality: PSY310H5, 311H5, 312H5, 315H5, 316H5, 318H5, 320H5, 321H5, 324H5, 325H5, 327H5, 328H5, 331H5, 333H5, 340H5, 341H5, 343H5, 344H5, 345H5, 346H5, 353H5

4. 1.0 additional credit in Psychology. At least 0.5 must be at the 300/400 level

Minor Program ERMIN1160 Psychology (Science)

4.0 credits are required, including 1.0 at the 300 level.

Limited Enrolment – Enrolment in this program is limited to students who have:

1. completed any Gr.12(4U) Mathematics or equivalent*;
2. completed 4.0 credits;
3. a grade of at least 63% in PSY100Y5; and
4. a minimum CGPA of 2.0

***First year students applying to this program from 2014/15 will be required to have completed Grade 12(4U) Biology and Advanced Functions or equivalent.**

Students not initially meeting these requirements may be admissible after meeting the second-year requirements. Further information is available on the Psychology Department website:

www.utm.utoronto.ca/psychology

First Year: PSY100Y5

Higher Years:

1. PSY201H5/ BIO360H5/ ECO220Y5/ 227Y5/ SOC350H5/ STA218H5/ 220H5
2. 1.5 credits from the following courses: 0.5 credit must be taken from each group:
 - (a) Biological Bases of Behaviour: PSY252H5, 290H5, 295H5
 - (b) Perception/Cognition/Communication: PSY270H5, 274H5, 280H5
 - (c) Developmental/Abnormal/ Social/Personality: PSY210H5, 213H5, 220H5, 230H5, 240H5
3. 1.0 credit in PSY at the 300 level.

Important notes about Psychology programs and courses.

1. Enrolment in all programs offered by the Psychology Department is limited. Students who do NOT earn a sufficiently high grade in PSY100Y5 to be eligible for enrolment may reapply when they satisfy the second-year requirements and are encouraged to consult with the undergraduate advisor. Further information is available on the Psychology Department web site, www.utm.utoronto.ca/psychology.
2. **Access to courses.** PSY309H5, 319H5, 329H5, 379H5, 399H5 and all 400-level courses have limited enrolments and are normally restricted. Access to all other 300-level courses is controlled by the department. Priority is given to students enrolled in programs offered by the Psychology Department. Spaces may be allotted on the basis of CGPA. Highest priority is given to students enrolled in one of the Specialist Programs. Consult the U of T Mississauga Registration Guide (available at www.utm.utoronto.ca) for specific information.
3. Students may take no more than 2.0 credits combined in ROP, Individual Projects or Thesis courses (contact Undergraduate Advisor for exemptions).
4. **Students who wish to take Psychology courses at the St. George Campus may do so provided that they have completed the prerequisite courses and have obtained permission from the Psychology Undergraduate Advisor at the St. George Campus.** If they wish to use these courses to fulfill U of T Mississauga program requirements, they must also consult the Undergraduate Advisor at U of T Mississauga.

IMPORTANT: Students without pre-requisites or written permission of the Undergraduate Advisor can be de-registered from courses at any time.

List of Courses

PSY100Y5 Introductory Psychology (SCI)

An examination of the science of behaviour, and use of the scientific method in the study of human and animal behaviour. This course, which includes 12 two-hour computer labs, is a prerequisite for all other Psychology courses except for PSY201H5 and 202H5. [48L, 20P]

PSY201H5 Research Design and Analysis in Psychology I (SCI)

Basic descriptive and inferential statistics. [24L, 12T]
Exclusion: BIO360H5/ ECO220Y5/ 227Y5/ SOC300Y5/ 350H5/ STA218H5/ 220H5
Prerequisite: Any Grade 12 (4U) Mathematics

PSY202H5 Research Design and Analysis in Psychology II (SCI)

Design of experiments and more advanced methods of statistical analysis, including complex analysis of variance. [24L, 12T]

Exclusion: ECO220Y5/ 227Y5/ STA221H5/ BIO361H5/ SOC300Y5

Prerequisite: PSY201H5

PSY210H5 Introduction to Developmental Psychology (SCI)

An examination of theories, methods, and psychological processes relevant to the study of development, in general, and child development in particular. Topics include historical and philosophical perspectives as well as empirical research on age-related changes in perceptual, cognitive, and social processes. [36L]

Prerequisite: PSY100Y5

PSY213H5 Adult Development and Aging (SCI)

An introduction to current research in human development from young adulthood through old age. Adult development will be examined in terms of the interplay of biological, socio-cultural, and psychological determinants, with special emphasis on psychological factors. Topics include the demographics of aging, research methods and problems, developmental changes in sensory-perceptual systems, memory, intelligence, personality, as well as issues related to mental health, dying and bereavement. [36L]

Exclusion: PSY313H1

Prerequisite: PSY100Y5

PSY220H5 Introduction to Social Psychology (SCI)

A survey of classic and contemporary research in social psychology. Topics include attitudes and social cognition, interpersonal relations, group processes, and culture. [36L]

Prerequisite: PSY100Y5

PSY230H5 Introduction to Personality (SCI)

An introduction to contemporary personality research. The course focuses on the understanding of individual differences in personality traits. Topics include: measurement of individual differences; the contribution of personality traits and situations to the understanding and prediction of thoughts, feelings, and behaviours; genetic, biological, cultural, and cognitive causes of individual differences in personality traits; and individual differences in unconscious processes, goals, values, and emotions. To increase the self-relevance of research findings, students take a personality test at the beginning of the term. [36L]

Prerequisite: PSY100Y5

PSY240H5 Introduction to Abnormal Psychology (SCI)

A survey of contemporary issues in theory and research on abnormal behaviour and its treatment. Topics include the definition of abnormal behaviour, causes and treatment of disorders, diagnosis and assessment, incidence and prevalence, biological and psychological interventions, prevention, as well as legal and ethical issues. Does not focus on specific disorders. [36L]

Prerequisite: PSY100Y5

PSY252H5 Introduction to Animal Behaviour (SCI)

An introduction to animal behaviour from a biological perspective, stressing ecological and evolutionary aspects of behaviour. The course will review the neural, endocrine and physiological mechanisms mediating animals' natural behaviours, as well as how gene-environment interactions during development modify these behavioural mechanisms. [36L]

Prerequisite: PSY100Y5

PSY270H5 Introduction to Cognitive Psychology (SCI)

An introduction to contemporary theories and research related to human cognition. Topics include attention, memory, language, and problem solving. [36L]

Prerequisite: PSY100Y5

PSY274H5 Introduction to Psychology of Human Communication (SCI)

A survey of research on human communicative abilities from a cognitive/perceptual perspective. Topics include human vs. non-human communication, spoken vs. signed languages, co-speech gesture, and relationships among music, language, and general cognition. [36L]

Prerequisite: PSY100Y5

PSY280H5 Perception (SCI)

An introduction to current empirical research in perceptual science, with primary emphasis on vision and audition. Topics in vision include anatomy and physiology of the visual system, the perception of contrast, colour, form, depth and motion. Topics in audition include anatomy and physiology of the auditory system, sound localization, the perception of pitch, loudness, and timbre. [36L]

Prerequisite: PSY100Y5

PSY290H5 Introduction to Physiological Psychology (SCI)

An examination of principles underlying the study of the nervous system and behaviour, including aspects of normal and abnormal development. [36L]

Prerequisite: PSY100Y5

PSY295H5 Introduction to Neuropsychology (SCI)

An introduction to the basic principles of neuroscience and the field of neuropsychology, the study of the pathological brain. Topics include: visual disorders, split brain research, neurodegenerative disorders, the brain pathology associated with each disorder, and the effect on behaviour. [36L]

Prerequisite: PSY100Y5

PSY299Y5 Research Opportunity Program (SCI)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Prerequisite: Completion of 4.0 FCE including PSY100Y5

PSY309H5 Experimental Design and Theory (SCI)

Practical problems in research design and interpretation of experimental findings. Practice in the critical evaluation of research findings. Students will gain experience in the processes involved in collecting and analyzing data and in using computers to set up psychological experiments. [24L, 24P]

Prerequisite: PSY(201H5, 202H5)/equivalent, 1.0 credit in PSY at the 200 level

PSY310H5 Adolescence and Emerging Adulthood (SCI)

A survey of research findings and theories concerning the physical, cognitive, personality, and social growth of adolescents and emerging adults. Topics include pubertal development, changes in parent/adolescent relationships, role of peers, identity development, high-risk behaviours, and development through transitional periods. [36L]

Prerequisite: PSY201H5/ equivalent, 210H5/ 213H5

PSY311H5 Social Development (SCI)

A survey of contemporary research and theory in social development during infancy and childhood with consideration of the cultural context of development. Topics include interactional development, attachment, understanding self and others, sex role development, parenting and socialization, and outcome of development. [36L]

Prerequisite: PSY201H5/ equivalent, 210H5/ 213H5

PSY312H5 Cognitive Development (SCI)

A survey of contemporary research and theory related to the development of thinking, intelligence and language. [36L]

Prerequisite: PSY201H5/ equivalent, 210H5/ 213H5, 270H5

PSY315H5 Language Acquisition (SCI)

An examination of theoretical and empirical perspectives on language and speech processing in childhood, including age-related changes in the perception and production of sounds, words, sentences, conversation, and text. [36L]

Exclusion: JLP315H1

Prerequisite: PSY201H5/ equivalent, PSY210H5/ 213H5/ 270H5/ 274H5/ LIN100Y5/ 200H5

PSY316H5 Infant Perception and Cognition (SCI)

This course focuses primarily on human perceptual and cognitive development during the first 2 years of life. A heavy emphasis is placed on experimental work with normally developing infants. Topics include but are not limited to face recognition, colour and depth perception, auditory localization, object categorization, speech and language processing, learning and memory, intelligence and social influences on development. [36L]

Prerequisite: PSY201H5/ equivalent, 210H5/ 270H5/ 280H5

PSY318H5 Developmental Neuropsychology (SCI)

A survey of brain development, its relation to normal cognitive and behavioural development, the effects of early brain damage on development, and specific neurological disorders of childhood. [36L]

Prerequisite: PSY201H5/ equivalent, 210H5/ 213H5, 252H5/ 290H5/ 295H5

PSY319H5 Developmental Psychology Laboratory (SCI)

Readings, laboratory exercises and research projects designed to familiarize students with methods relevant to research with infants and children. [36P]

Prerequisite: PSY(201H5, 202H5)/ equivalent, 210H5/ 213H5, 309H5

PSY320H5 Social Psychology: Attitudes (SCI)

Attitudes are persistent evaluations (preferences, likes and dislikes). This course examines the measurement of attitudes, the formation of attitudes to new objects, and the change of existing attitudes. General principles are illustrated with examples from various domains, such as propaganda and advertising, stereotyping and prejudice, attitudes towards health behaviours, and self-evaluations (self-esteem, life-satisfaction). [36L]

Prerequisite: PSY201H5/ equivalent, 220H5

PSY321H5 Cross-cultural Psychology (SCI)

An examination of culture-blind and culture-bound aspects of traditional psychology. Topics include issues of diversity, cultural influences on basic psychological processes, the impact of culture on social and developmental processes and research applications. [36L]

Prerequisite: PSY210H5/ 213H5/ 220H5/ 230H5/ 240H5/ 270H5/ 274H5

PSY324H5 The Science of Wellbeing (SCI)

What makes people happy? Does money buy happiness or do unhappy people not know where to shop? Are people in California happier than people in Ontario? Does marriage make men happier and women unhappier? This course reviews the scientific evidence regarding these and other questions about the determinants of happiness from an interdisciplinary perspective (psychology, economics, sociology, philosophy, & biology) that ranges from molecular genetics to cross-national comparisons. [36L]

Prerequisite: PSY201H5/ equivalent, 220H5/ 230H5

PSY325H5 Psychology of the Self (SCI)

An examination of theory and research on the self from the perspectives of personality, developmental, and social psychology. Examples of topics associated with self development that will be covered are relationships, motivations, psychological stages, individual differences, cognition, culture, autobiographical memory, and narrative perspectives on the self. [36L]

Prerequisite: PSY201H5/ equivalent, 210H5/ 220H5/ 230H5

PSY327H5 Interpersonal Relationships (SCI)

The objective of this course is to review what relationship science can tell us about close relationships, with a particular focus on romantic relationships. We will explore questions such as: Why do we want to be in relationships, what informs our choice of relationship partners, what predicts satisfaction and stability in relationships, and what is the role of sexuality in relationships? These and other questions will be examined from a variety of theoretical perspectives and will be applied to better understand real-world relationship functioning. General topics include theory and methods of relationships, attraction, social cognition, interdependence, attachment, sexuality, culture and gender, jealousy, and thriving relationships. [36L]

Exclusion: PSY324H1, 424H1

Prerequisite: PSY201H5/ equivalent, 220H5/ 230H5

PSY328H5 Psychology and the Law (SCI)

An examination of relevant research and contemporary methodologies examining phenomena encountered in the justice system. Topics include jury decision-making, violence and risk assessment, eye-witness evidence, insanity, psychopathy and anti-social personality disorder, sentencing, treatment of special offender groups, and criminal profiling. Students will learn how to apply the scientific method to examine behaviours that occur in a legal context. [36L]

Prerequisite: PSY201H5/ equivalent, 220H5/ 240H5

PSY329H5 Social/Personality Laboratory (SCI)

Independent research projects in social psychology or personality. Each project will include the design of an experiment, data collection, and a written report. [36P]

Prerequisite: PSY(201H5, 202H5)/ equivalent, 220H5/ 230H5, 309H5

PSY331H5 Psychological Tests (SCI)

A survey of the fundamental psychometric properties of tests, test construction, factors influencing the use and interpretation of tests, and a critical analysis of selected applications of tests. [36L]

Exclusion: PSY330H1

Prerequisite: PSY201H5/ equivalent, 1.0 credit in Psychology at 200 level

PSY333H5 Health Psychology (SCI)

Examines research evidence concerning the impact of psychological factors on physical health and illness. [36L]

Prerequisite: PSY201H5/ equivalent, 230H5/ 240H5

PSY340H5 Abnormal Psychology: Adult Disorders (SCI)

An examination of current theory and research related to the origin and treatment of specific psychological disorders. Biological and psychological approaches will be considered, with special emphasis on social learning theories and cognitive-behavioural interventions. [36L]

Prerequisite: PSY201H5/ equivalent, 240H5

PSY341H5 Abnormal Psychology: Disorders of Children and Adolescents (SCI)

Considers concepts of normal, abnormal and delayed development. Schemes of classification and diagnosis, approaches to identification of causes, and contemporary treatment methods are critically evaluated. The emphasis is on controlled research as a primary source of knowledge about psychological disorders and treatment. [36L]

Prerequisite: PSY201H5/ equivalent, 210H5, 240H5

Recommended *Prerequisite:* PSY340H5

PSY343H5 Theories of Psychotherapy (SCI)

The extension of major theories of personality to treatment (therapy) for personality and behavioural disorders, and research supporting and/or growing out of the theories. [36L]

Prerequisite: PSY201H5/ equivalent, 230H5/ 240H5

PSY344H5 Forensic Psychology (SCI)

An exploration of the role of psychology in forensic science (the application of scientific inquiry into criminal investigation). Topics, which will vary from year to year, could include the assessment of criminal responsibility, competency issues, psychiatric disorders associated with crime, criminal profiling, behavioural analysis of a crime scene, prediction of dangerousness, workplace and family violence, sexual assault/abuse/rape, recovered memories, detection of malingering and deception, deindividuation and bystander intervention, social psychology of the jury, use of psychological tests in legal cases, witness preparation/interrogation, and the psychologist as expert witness. [36L]

Prerequisite: PSY240H5

PSY345H5 Exceptionality: Disability and Giftedness (SCI)

A survey of contemporary theory and research related to exceptionality with a special emphasis on disability and educational issues. Topics include controversial psychosocial issues, legal, family, and multicultural issues, disability across the lifespan, communication disorders, hearing and visual impairment, autism, and acquired brain injury. [36L]

Exclusion: PSY442Y5

Prerequisite: PSY210H5/ 213H5

PSY346H5 Abnormal Psychology: The Biological Paradigm (SCI)

An examination of contemporary theory and research related to the origin, prevention, and treatment of psychological disorders from a biological perspective. The course will focus on the role of behaviour genetics, structures in the brain, and biochemistry in the nervous system in specific disorders (e.g., schizophrenia, mood and anxiety disorders, aggression, premenstrual syndrome, sleep disorders) and will discuss alternative approaches to their treatment (e.g., psychopharmacologic versus behaviourally-oriented therapies). [36L]

Prerequisite: PSY201H5/ equivalent, 240H5, 252H5/ 290H5/ 295H5

PSY351H5 Evolutionary Psychology (SCI)

Application of the theory of biological evolution to understanding the origins and structure of the human mind. [36L]

Prerequisite: PSY201H5/ equivalent, 270H5/ 274H5, 252H5/ 290H5/ 295H5

PSY353H5 Developmental Social Neuroscience (SCI)

The course will focus on the development and organization of brain mechanisms underlying sensation, recognition, memory, cognition, motor behaviour, and cognition and emotion regulation with a focus on the behavioural expression of social attachment and affiliation in mammalian species. Circumstances and events that can lead to diminished function and developmental psychopathology in humans will be considered. [36L]

Prerequisite: PSY201H5/ equivalent, 252H5/ 290H5/ 295H5

PSY354H5 The Biopsychology of Sex (SCI)

This course is an introduction to the scientific study of human sexuality. Topics covered may include sexual development, sexual orientation, sex practices, sexuality across the lifespan, sexual dysfunction and sexually transmitted diseases. [36L]

Prerequisite: PSY201H5/ equivalent, 252H5/ 290H5/ 295H5

PSY355H5 Introduction to Animal Behaviour Genetics (SCI)

An introduction to the genetic analysis of behaviour. The concepts and methods of classical Mendelian genetics, quantitative genetics, and recombinant DNA technology-based reverse and forward genetic approaches will be discussed as they relate to the analysis of animal behaviour. [36L]

Prerequisite: PSY201H5/ equivalent, 252H5/ 290H5/ 295H5

PSY360H5 Operant and Classical Conditioning (SCI)

A survey of empirical findings and theoretical interpretations of learning in animals and related processes in humans. Students will use computer simulation to perform virtual laboratory experiments demonstrating some of the learning phenomena discussed in class. [24L, 24P]

Exclusion: PSY260H1

Prerequisite: PSY201H5/ equivalent, 1.0 credit in Psychology at the 200 level

PSY362H5 Animal Cognition (SCI)

A comparative survey of cognitive processes in animals from an ecological and evolutionary perspective. The course will examine topics including perception, working and reference memory, simple associative and complex relational learning, and concept formation. [36L]

Prerequisite: PSY201H5/ equivalent, 252H5/ 290H5/ 295H5, 270H5

PSY371H5 Higher Cognitive Processes (SCI)

This course covers selected topics pertaining to higher cognitive processes including expertise, consciousness, creativity, and human and artificial intelligence. [36L]

Prerequisite: PSY201H5/ equivalent, 270H5

PSY372H5 Human Memory (SCI)

Current theories and data on human memory: Processes involved in encoding, storage, and retrieval. Neuropsychological mechanisms and theories will be considered. [36L]

Prerequisite: PSY201H5/ equivalent, 252H5/ 290H5/ 295H5, 270H5

PSY374H5 Psychology of Language (SCI)

An examination of contemporary approaches to the psychological study of language and speech, with emphasis on the biological, cognitive, and cultural aspects of language use. Topics include language comprehension, language production, and language disorders. [36L]

Exclusion: JLP374H1

Prerequisite: PSY201H5/ equivalent, 270H5/ 274H5/ 315H5

PSY376H5 Psychology of Bilingualism (SCI)

A survey of contemporary research on bilingualism from a psychological perspective. Topics include the representation of multiple languages in the mind/brain, the acquisition of a second language by children and adults, and effects of bilingualism on linguistic and nonlinguistic behaviour. [36L]

Prerequisite: PSY201H5/ equivalent; PSY270H5/ 274H5/ 315H5/ 374H5

PSY379H5 Cognitive Psychology Laboratory (SCI)

Readings, laboratory exercises, and research projects designed to familiarize students with methodologies relevant to empirical research in cognitive psychology. [36P]

Prerequisite: PSY(201H5, 202H5)/ equivalent, 270H5/ 274H5, 309H5

PSY384H5 Speech Perception and Production (SCI)

The production and perception of spoken language, from an interdisciplinary perspective. Topics include perceptual and cognitive aspects of speech perception, speech signal acoustics, articulation of speech sounds, audio-visual speech integration, speech synthesis, and contextual influences on speech communication. Practical instruction in spectrogram reading and acoustic analysis. [36L]

Prerequisite: PSY201H5/ equivalent, PSY270H5/ 274H5/ 280H5/ 374H5/ LIN228H5

PSY385H5 Hearing and Hearing Disorders (SCI)

Sound waves impinging upon our ears convey information about the presence, location, and identity of objects in our environment. An examination of the extraction of this information from sound waves and of the disruption of speech understanding and communication by various peripheral and central disorders. [36L]

Prerequisite: PSY201H5/ equivalent, 210H5/ 213H5/ 270H5/ 274H5/ 280H5/ 295H5

PSY387H5 Music Perception and Cognition (SCI)

An examination of the cognitive foundations of music perception and performance. Consideration of processing differences between naive and experienced listeners, biological foundations of music processing, cultural contributions to music processing, theoretical perspectives on the origins of music, music and emotion, and the non-musical implications of musical training. [36L]

Exclusion: CCT371H5 (formerly CCT371H5)

Prerequisite: PSY201/ equivalent; PSY210H5/ 270H5/ 274H5/ 280H5.

PSY393H5 Human Neuropsychology (SCI)

This course will review major topics in cognitive neuroscience, with an emphasis on human function. Sample topics include issues such as memory disorders and models of memory, split brain research, language and aphasia, attention, emotion, and executive functions. [36L]

Prerequisite: PSY201H5/ equivalent, 252H5/ 290H5/ 295H5, 270H5

PSY395H5 Hormones and Behaviour (SCI)

An evaluation of relations between the hormonal system and brain/behaviour in a variety of species (including humans). Behavioural/functional systems to be considered include the reproductive behaviours (sexual and maternal), aggression, circadian rhythms, seasonal rhythms, eating, affective states, learning and memory. [36L]

Prerequisite: PSY201H5/ equivalent, 252H5/ 290H5/ 295H5/BIO204H5

PSY397H5 Neuroplasticity and Behaviour (SCI)

An examination of experimental findings and theory documenting the plasticity of the brain and its relationship to behaviour. The course will discuss the molecular, synaptic, cellular and circuitry components of neural plasticity in relation to learning and experience. [36L]

Prerequisite: PSY201H5/ equivalent, 252H5/ 290H5/ 295H5

PSY398H5 Motivational Systems (SCI)

An examination of the psychological mediators of motivational and/or homeostatic systems, including eating, drinking, and sexual differentiation, as well as sexual, maternal and aggressive behaviour. Consideration of the underlying neuroanatomy, neuroendocrinology, hormonal and sensory mechanisms. [36L]

Prerequisite: PSY201H5/ equivalent, 252H5/ 290H5/ 295H5/BIO204H5

PSY399H5 Psychobiology Laboratory (SCI)

Supervised demonstration experiments designed to familiarize students with methods of collecting, analyzing, and reporting data from ethological and physiological experiments with animal subjects. Students handle selected species of animals. [36P]

Prerequisite: PSY202H5/ equivalent, 252H5/ 290H5/ 295H5

PSY400Y5 Thesis (SCI)

Independent research supervised by individual faculty members. Seminars on general topics relevant to the conduct of independent research, student research proposals, and the presentation of findings. Admission by academic merit. Interested students in their fourth (or final) year should obtain and submit an application to Room 2037B by the end of April. [72S, 72P]

Prerequisite: PSY202H (or equivalent); Minimum last AGPA of 3.2 (varies from year to year and is rarely below 3.4)

Corequisite: PSY309H5/ 399H5

PSY402H5 Systems of Psychology (SCI)

A critical analysis of the historical, conceptual, and methodological foundations of influential approaches to the study of mind and behaviour (e.g., behaviourism, psychoanalysis, humanistic psychology, cognitive science). [36S]

Prerequisite: 1.0 300 level credit in Psychology

PSY403H5 Individual Project (SCI)

Independent research on a specific aspect of human or animal behaviour. Students arrange for a Faculty supervisor during the preceding term.

Prerequisite: PSY201H5 equivalent; 1.0 300-level credit in Psychology; minimum last AGPA of 3.0 or above

PSY404H5 Individual Project (SCI)

Independent research on a specific aspect of human or animal behaviour. Students arrange for a Faculty supervisor during the preceding term.

Prerequisite: PSY201H5 equivalent; 1.0 300-level credit in Psychology; minimum last AGPA of 3.0 or above

PSY405H5 Individual Project (SCI)

Independent research on a specific aspect of human or animal behaviour. Students arrange for a Faculty supervisor during the preceding term.

Prerequisite: PSY201H5 equivalent; 1.0 300-level credit in Psychology; minimum last AGPA of 3.0 or above

PSY406H5 Individual Project (SCI)

Independent research on a specific aspect of human or animal behaviour. Students arrange for a Faculty supervisor during the preceding term.

Prerequisite: PSY201H5 equivalent; 1.0 300-level credit in Psychology; minimum last AGPA of 3.0 or above

PSY410H5 Special Topics in Developmental Psychology (SCI)

In depth examination of selected topics in developmental psychology. (Topics change periodically.) [36S]

Prerequisite: PSY210H5, 1.0 credit from PSY311H5, 312H5, 315H5, 316H5, 318H5, 319H5, 341H5, 345H5, 442Y5

PSY415H5 Special Topics in Adult Development and Aging (SCI)

In depth examination of selected topics in adult development and aging. (Topics change periodically.) [36S]

Prerequisite: PSY213H5, 1.0 credit from PSY311H5, 312H5, 316H5, 319H5, 320H5, 321H5, 325H5, 343H5, 333H5, 340H5, 345H5, 374H5, 385H5, 442Y5

PSY420H5 Special Topics in Social Psychology (SCI)

In depth examination of selected topics in social psychology. (Topics change periodically.) [36S]

Prerequisite: PSY220H5, 1.0 credit from PSY311H5, 319H5, 320H5, 321H5, 325H5, 329H5, 343H5, 333H5, 340H5, 341H5

PSY430H5 Special Topics in Personality (SCI)

In depth examination of selected topics in personality. (Topics change periodically.) [36S]

Prerequisite: PSY343H5, one of PSY311H5, 320H5, 321H5, 325H5, 329H5, 331H5, 340H5

PSY435H5 Advanced Topics in Naturalistic Psychology (SCI)

This seminar is intended for students interested in non-experimental research questions in abnormal/personality/social/developmental psychology, who aim to pursue graduate training (e.g., psychology, social work), Medicine, and/or related careers. Students will learn to critically assess and discuss contemporary research articles that use non-experimental approaches to study human behavior and experiences in naturalistic settings. Fundamental issues (e.g., statistical methods, measurement, causality, stability and change, genes vs. environment) will be examined using research articles on a variety of topics (e.g., marital satisfaction, well-being, aggression, self-esteem). [36S]

Prerequisite: PSY202H5, 1.0 credit at the 300 level in Psychology

PSY440H5 Special Topics in Abnormal Psychology (SCI)

In depth examination of selected topics in abnormal psychology. (Topics change periodically.) [36S]

Prerequisite: PSY340H5, one of PSY320H5, 321H5, 331H5, 343H5, 333H5, 341H5, 344H5, 345H5, 346H5, 385H5, 442Y5

PSY442Y5 Practicum in Exceptionality in Human Learning (SCI)

Seminar and practicum on issues relating to the life-long development of individuals with disabilities. Seminar at U of T Mississauga; practicum involves supervised placements in schools or social service agencies. Course is required for students enrolled in the Exceptionality in Human Learning Specialist program (Primary Junior CTEP students are exempted – please consult program requirements) and is available to Psychology Specialists, Exceptionality in Human Learning Majors and Psychology Majors and Minors on a competitive basis. Course fulfills the 400-level seminar requirement for the Psychology Specialist Program. Interested students must apply by the end of April by completing application available from the Experiential Education Co-ordinator, Office of the Dean, Room 3200, Davis Bldg. [72S, 80P]

Exclusion: PSY345H5

Prerequisite: 10.0 completed credits, including PSY210H5/213H5, 1.0 300 level credit in Psychology

PSY471H5 Special Topics in Cognitive Psychology (SCI)

In depth examination of selected topics in cognitive Psychology. (Topics change periodically.) [36S]

Prerequisite: PSY270H5, 1.0 credit from PSY312H5, 315H5, 360H5, 362H5, 372H5, 374H5, 379H5, 393H5, 397H5

PSY474H5 Special Topics in Human Communication (SCI)

In depth examination of selected topics in psychological approaches to human communication. (Topics change periodically.) [36S]

Prerequisite: 1.0 300 level credit in Psychology including PSY315H5/ 374H5, one of PSY312H5, 315H5, 316H5, 319H5, 374H5, 385H5, 379H5

PSY480H5 Special Topics in Perception (SCI)

In depth examination of selected topics in perception. (Topics change periodically.) [36S]

Prerequisite: PSY280H5, 1.0 300 level credit in Psychology

PSY490H5 Advanced Topics in Biological Psychology (SCI)

In depth examination of selected topics in biological psychology. (Topics change periodically.) [36S]

Prerequisite: PSY270H5/ 290H5/ 295H5/BIO204H5; 1.0 credit from PSY346H5, 362H5, 372H5, 395H5, 397H5, 398H5, 399H5, BIO304H5

PSY495H5 Special Topics in Neuropsychology (SCI)

In depth examination of selected topics in neuropsychology. (Topics change periodically.) [36S]

Prerequisite: PSY290H5/ 295H5, 1.0 credit from PSY315H5, 318H5, 346H5, 362H5, 372H5, 374H5, 379H5, 393H5, 397H5

Science Education (HBSc)

Science Education will no longer be offered beginning in 2011-12. Students currently enrolled in this program will be allowed to continue. Students interested in an education program should consult the Concurrent Teacher Education Program.

Program Advisor
Don Philip
don.philip@utoronto.ca

Undergraduate Assistant
Elizabeth Kobluk
Room 4059, Davis Bldg.
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Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

Note: These courses count towards the BSc degree.

SCI395H5 Science Education: Basic Concepts (SCI)

Basic concepts in formal (school and university) and informal (public and extra-curricular) science education, as an important part of the sciences, and as an independent discipline. [24L]

Exclusion: SCI398Y5

Prerequisite: Enrolment in a HBSc Major or Specialist program; 10.0 completed credits.

SCI396H5 Science Education: Special Topics (SCI)

Special topics in formal (school and university) and informal (public and extra-curricular) science education. Includes focused discussions, guest lectures, and student presentations. [24L]

Exclusion: SCI398Y5

Prerequisite: SCI395H5

SCI498H5 TOPS: Teaching Opportunity Program in the Sciences (SCI)

An individual unpaid placement in which students integrate and apply their understanding of science and education by observing, actively participating in, and reflecting on the teaching and learning process in a specific undergraduate science course, under the supervision of an experienced instructor/mentor. Students must plan and register for the course in March of the previous academic year. Enrolment will depend on the availability of positions. [12L, 24P]

Prerequisite: At least 10.0 courses completed; enrolment in a life, mathematical, or physical science major or specialist program; an average of B-(CGPA 2.7) or higher.

Contact program advisor for Science Education. **NOTE:** This half credit (0.5) course may be offered over the Fall Term (SCI498H5F), Winter Term (SCI498H5S) and over the full Academic Year (SCI498H5Y).

SCI499H5 Science Education Project (SCI)

A major science education project and report, carried out under the supervision of a faculty member in the physical, mathematical, or life sciences. The project may be in formal education (school, university) or informal (public) education. *Prerequisite:* SCI398Y5/ (SCI395H5, SCI396H5), 4th-year status and P.I.

NOTE: This half credit (0.5) course may be offered over the Fall Term (SCI499H5F), Winter Term (SCI499H5S) and over the full Academic Year (SCI499H5Y).

Students wishing to enrol in SCI499H5 must register with the course coordinator by providing a copy of their resume and education interests *by September 1*. This half-course is normally taken in the second term, but can be taken as a half-course throughout the year, if the student has previously taken SCI398Y5, SCI395H5 or SCI396H5 and if a project and a supervisor have been arranged by September 1.

Sociology (HBA)

Professors Emeriti

M. Blute, B.A., M.A., Ph.D.
 D.F. Campbell, B.A., M.A., Ph.D.
 E. Silva, B.A., M.A., Ph.D.
 J.H. Simpson, B.A., B.D., Th.M., Ph.D.
 M.W. Spencer, A.B., M.A., Ph.D.

Professors

Z. Baber, B.A., M.A., Ph.D.
 S. Baumann, B.A., M.A., Ph.D.
 D. Brownfield, B.A., M.A., Ph.D.
 H.Y. Choo, B.A., M.S., Ph.D.
 C. Cranford, B.A., M.A., Ph.D.
 R. Dinovitzer, B.A., M.A., Ph.D.
 L. Farah Schwartzman, B.A., M.A., Ph.D.
 H. Friedmann, A.B., M.A., Ph.D.
 P. Goodman, B.A., M.A., Ph.D.
 B. Green, B.A., Ph.D.
 K. Hannah-Moffat, B.A., M.A., Ph.D.
 J. Johnston, B.A., M.A., Ph.D.
 A. Korteweg, B.A., M.A., Ph.D.
 P. Maurutto, B.A., M.A., Ph.D.
 E. Schneiderhan, B.A., M.A., Ph.D.
 W. Zhang, B.S., M.A., Ph.D.

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Sociologists study how families work; how individuals change over the life course; how norms and laws are made, broken, enforced, and changed; how inequalities of gender, class, and race emerge, continue, and change; how cities, regions, nations, and international institutions work as organized sets of relationships; how power is exercised and resisted; how individuals, groups, and organizations communicate or fail to communicate; how cultural meanings relate to patterned social relationships; and more. Sociology thus creates theories about a broad range of human activity. Sociologists study these questions in two complementary ways. First, they gather data about large numbers of individuals to discover patterns of behaviour

and interpret them through statistical analysis. Second, they gather in-depth data by interviewing and observing individuals and groups, and interpret these data through qualitative methods. A degree in Sociology leads to careers in social policy, government, education, health, public opinion research, community and social services, non-governmental, cooperative, business and non-profit organizations, criminology and corrections, industrial and labour relations, evaluation research, and environment.

Students may select from a variety of special areas of interest in their Specialist or Major programs. They may also consult with the department for other combinations of courses such as those emphasizing Canadian society, interpersonal relations, or research methods. The Department offers Specialist, Major, and Minor programs in Sociology, and Specialist and Major programs in Criminology and Socio-Legal Studies.

IMPORTANT NOTES for SOCIOLOGY PROGRAMS

Program requirements have substantially changed in all programs offered by the Department of Sociology. These changes only apply to students registering in any of these programs as of April 2007. Students enrolled in any programs prior to this date should follow the requirements in the U of T Mississauga Calendar for the year that they enrolled in their program.

SOC101Y5 will be accepted in place of SOC100H5
 SOC200Y5 is equivalent to SOC221H5 plus SOC222H5
 SOC300Y5 is equivalent to SOC350H5 plus SOC351H5
 SOC314Y5 is equivalent to SOC231H5 plus SOC232H5

SOC350H5 equivalents for Specialists only: For Sociology Specialists required to take SOC350H5, the following course is the **only** acceptable equivalent: STA220H5. In **no** other circumstance may students count STA220H5 toward a Major or Minor in Sociology.

Sociology website: See our web site for program requirements, faculty information, course documents and contact information:

<http://www.utm.utoronto.ca/8881.0.html>

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

SOC Sociology (page 296)
 STA Statistics (page 306)

Specialist Program ERSPE1013 Sociology (Arts)

Within an Honours degree, 10.0 credits in Sociology are required.

Limited Enrolment – Students applying at the end of first year (4.0 credits) must have a grade of at least 70 in SOC100H5 and a CGPA of at least 2.0. Students applying in subsequent years must have an average grade of at least 70 among all sociology courses and a CGPA of 2.0.

First Year: SOC100H5

Students may enrol in 200-level SOC courses after successfully completing SOC100H5.

Higher Years:

1. SOC221H5, 222H5 (see NOTES below)
2. SOC231H5, 232H5, 350H5, 387H5
3. 1.0 SOC credit at the 400 level
4. 5.5 additional SOC credits of which 3.0 credits must be at the 300/400 level.

Major Program ERMAJ1013 Sociology (Arts)

7.0 credits in Sociology are required.

Limited Enrolment – Students applying at the end of first year (4.0 credits) must have a grade of at least 63 in SOC100H5 and a CGPA of at least 2.0. Students applying in subsequent years must have an average grade of at least 63 among all sociology courses and a CGPA of 2.0.

First Year: SOC100H5

Students may enrol in 200-level SOC courses after successfully completing SOC100H5.

Higher Years:

1. SOC221H5, 222H5 (see NOTES below)
2. SOC231H5, 232H5
3. 4.5 additional SOC credits of which 2.0 credits must be at the 300/400 level. SOC350H5, 387H5 are recommended.

Minor Program ERMIN1013 Sociology (Arts)

4.0 credits in Sociology are required.

Limited Enrolment – Students applying at the end of first year (4.0 credits) must have a grade of at least 63 in SOC100H5. Students applying in subsequent years must have an average grade of at least 63 among all sociology courses.

First Year: SOC100H5

Students may enrol in 200-level SOC courses after successfully completing SOC100H5.

Higher Years: 3.5 SOC credits of which 1.0 credit must be at the 300/400 level.

List of Courses**SOC100H5 Introduction to Sociology (SSc)**

An introduction to the conceptual and empirical foundations of the discipline. The relationship between theory and research in the study of society will be stressed. [24L]

Exclusion: SOC101Y5, SOC101Y1

SOC209H5 Current Issues in Law and Criminology (SSc)

This is an issue-based course that introduces students to sociological and criminological analysis of "crime", law, and the operation of the Canadian criminal justice system. The course focuses on current issues and on how broader socio-structural forces shape the criminal justice process. [24L]

Prerequisite: SOC100H5

SOC211H5 Deviance and Social Control (SSc)

A sociological analysis of deviant behaviour that examines theories of its genesis, social definition, maintenance, control, and social consequences. [24L]

Exclusion: SOC212Y1

Prerequisite: SOC100H5

SOC216H5 Sociology of Law (SSc)

Major theoretical and substantive debates in the sociology of law. How race, gender and social inequality shape legal institutions, the law and the broader social context. [24L]

Exclusion: SOC213Y1

Prerequisite: SOC100H5

SOC217H5 Shopping and Society (SSc)

This course provides an overview of the Sociology of Consumption. The study of consumption provides an entry point for examining the intersection between culture, economics, and the environment. Potential topics include the following: the shopping experience, consumption as status, the environmental impact of consumerism, fashion cycles, and identity construction through consumption.[24L]
Prerequisite: SOC100H5

SOC219H5 Crime and Justice (SSc)

This course will provide an analysis of key issues surrounding the response to crime and justice. The course will explore how criminal justice is conceptualized and delivered. [24L]
Prerequisite: SOC100H5

SOC221H5 The Logic of Social Inquiry (SSc)

Logic of Social Inquiry compares the logic of quantitative and qualitative research. Key topics include the relationship between theory and research, conceptualization and measurement of sociological concepts and sampling strategies in the quantitative and qualitative traditions. This course is recommended for students in their second year.[24L]
Exclusion: SOC200Y5, 200H1
Prerequisite: SOC100H5

SOC222H5 Measuring Society (SSc)

This course addresses how we are able to measure social concepts such as social characteristics, social attitudes, and social actions. Descriptive statistics and their presentation in tables and graphs will be presented in some detail. A very basic introduction to inferential statistics and sampling will also be presented. This course is recommended for students in their second year. [24L]
Exclusion: SOC200Y5, 202H1
Prerequisite: SOC100H5

SOC227H5 Sociology of Work and Occupations (SSc)

This course covers work and post-industrialization in Canada today. It considers labour force participation, and social differences and inequalities across different groups, including gender, class, and ethnicity/race. It also examines managerial cultures and styles, and workers' responses and resistance to managerial control. [24L]
Exclusion: SOC207Y5, 207Y1, 207H1
Prerequisite: SOC100H5

SOC231H5 Classical Sociological Theory (SSc)

This course presents a discussion and analysis of classical sociological theory including such luminaries as Marx, Durkheim and Weber among others. [24L]
Exclusion: SOC314Y5, 203Y1
Prerequisite: SOC100H5

SOC232H5 Modern Sociological Theory (SSc)

This course presents a discussion and analysis of modern sociological theory from approximately the 1920s through the present period. [24L]
Exclusion: SOC314Y5, 203Y1
Prerequisite: SOC100H5

SOC236H5 Globalization (SSc)

How do individuals relate to the complex and over-used concept of "globalization"? This course will explore major theories and controversies in the field of globalization scholarship, looking at the phenomena from the perspective of global capitalists, anti-globalization social movements, consumers, states, and citizens. Students will critically evaluate common claims made about globalization, and acquire tools to assess the validity of competing perspectives. [24L]
Exclusion: SOC277Y5
Prerequisite: SOC100H5

SOC244H5 Sociology of Families (SSc)

The development and variation in contemporary families will be presented. Topics may include cross-cultural comparisons, the impact of legal, economic and political factors as well as change in the meaning of the term "family". [24L]
Exclusion: SOC214Y5, 214Y1, 214H1
Prerequisite: SOC100H5

SOC253H5 Race and Ethnicity in the Americas (SSc)

This course will take a comparative historical approach, examining how different racialized and ethnicized social systems evolved in different regions of the Americas. We will focus on examples from Canada, United States and Latin America. We will examine the different relationships between Europeans, Africans, indigenous peoples and their descendants in different regions both historically and today. Topics will include colonialism, slavery and migration. [24L]
Exclusion: SOC332H5
Prerequisite: SOC100H5

SOC263H5 Social Inequality (SSc)

Examines the causes, prevalence and manifestations of social, political and economic inequalities, internationally and within Canada. The effects of gender, age, ethnicity-race, among other characteristics, are carefully analyzed in Canada and cross-culturally. [24L]
Exclusion: SOC301Y5, 363H5
Prerequisite: SOC100H5

SOC275H5 Sociology of Gender (SSc)

This course introduces students to the sociology of gender showing how gender is a relationship of power that structures our everyday lives from intimate relationships through global political and economic forces. We will focus on gender and gender differences as produced in historically and locally specific ways where gender differences intersect with those of race, ethnicity, class, religion, sexuality and other structures of inequality. [24L]

Exclusion: SOC365H5

Prerequisite: SOC100H5

SOC284H5 Communication and Ethics: Conflict and Controversy in the Media (SSc)

This course examines the conflicts and controversies in the media. The goal of the course is to analyze power struggles within the realm of the media in order to understand how they both reflect and can reinforce broader social inequalities. Topics include censorship, violence, pornography, marketing, intellectual property, and privacy. [24L]

Exclusion: SOC284Y5, 384Y5

Prerequisite: SOC100H5

SOC299Y5 Research Opportunity Program (SSc)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

SOC302H5 Sociology of Culture (SSc)

The institutional production of art, theories of culture and social structure, cultural consumption and reception, cultural capital, the role of culture in social inequality, symbolic boundaries, culture and identity, cultural fields, discourse analysis, and change in art worlds and aesthetics. [24L]

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level

SOC305H5 Theories in Criminology (SSc)

This course will cover major theoretical paradigms in the field of criminology included, among others, classical, positivist, strain, control, social learning, critical, feminist, postmodern and critical race theories. [24L]

Prerequisite: SOC100H5, 209H5

SOC307H5 Crime and Delinquency (SSc)

Definitions and sociological explanations of crime and delinquency. Social background of Canadian criminal law; the role of police, courts, prisons and other institutions of social control. [24L]

Exclusion: SOC306Y1

Prerequisite: SOC100H5, 209H5

SOC309H5 Sociology of Mass Communication (SSc)

This course examines the theories, methods, and findings of sociological studies of media production, content, and reception. The focus is on understanding how communication theories are adjudicated by empirical findings. Topics include race and gender in the media, bias in the news, media ownership, the film industry, and the role of the media in politics. [24L]

Exclusion: SOC309Y5

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level

SOC310H5 Youth Justice (SSc)

The youth criminal justice system in Canada. Topics include historical and contemporary shifts in the youth justice system, young offender legislation, public perceptions and media representations of juvenile delinquency, current research and theories on youth crime and crime prevention strategies. Particular attention is paid to the treatment of specific groups. [24L]

Prerequisite: SOC100H5, 209H5

SOC316H5 Issues in Crime Prevention (SSc)

The growth of political, economic, community and academic interest in crime prevention and security. How segments of society or particular physical sites are constructed as security risks in need of regulation. The regulation of security, including crime prevention, community safety, risk reduction and surveillance. These issues are then examined in relation to specific empirical developments such as private policing, restorative justice, community policing and gated communities. [24L]

Prerequisite: SOC100H5, 209H5

SOC323H5 Law and Society (SSc)

This course is primarily concerned with the relationship between legal, social and moral regulation. The law can either promote social change or defend the status quo. Most of us believe that the law reinforces certain social values (justice, rights, equality and fairness). This course critically assesses the extent to which law embodies these values, and how these values are challenged by different segments of society. The course will outline key debates about the power of law and legal governance. [24L]

Prerequisite: SOC100H5, 209H5

SOC324H5 Politics and Society (SSc)

This course will introduce students to classic and contemporary views on power and the social basis of politics. We will also discuss the role of social movements. [24L]

Exclusion: SOC324Y5

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level.

SOC332H5 Race and Ethnicity I (SSc)

This course will engage the historical roots of racism primarily in the Americas, including the various diasporas to the Americas. [24L]

Exclusion: SOC330H5

Prerequisite: SOC100H5/ 101Y5, 1.0 SOC credit other than SOC200Y5/ (SOC221H5, 222H5).

SOC335H5 Political Sociology (SSc)

This course will introduce students to the classic and contemporary view of political processes in small groups, organizations, institutions, communities and societies. Specific topics to be covered may include revolutions, state formation, ethnic nationalism, social capital and civic participation, gender politics, the various varieties, causes and effects of welfare states and social movements. The course will have both a Canadian and international focus. [24L]

Exclusion: SOC260H1

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level.

Recommended Preparation: SOC263H5

SOC336H5 Social Surveys (SSc)

Students will learn "the art of asking questions", the principles of attitude measurement and the elements of sampling and ethical review procedures. Topics include, "sensitive topics", "how to avoid asking leading questions", "how to collect and manage textual data", and "what is an adequate response rate?" [24L]

Exclusion: SOC430H5

Prerequisite: SOC100H5, 221H5, 222H5

SOC339H5 Social and Ecological Issues in Globalization (SSc)

This course will build on the theoretical knowledge and tools about globalization in SOC236H5, and examines major social and environmental issues associated with the phenomenon of globalization, such as population growth, global poverty, environmental degradation, global disease, and terrorism. Students will also learn about major social struggles to ameliorate these problems and bring greater democracy, equality, and sustainability into the global system. [24L]

Exclusion: SOC237H5

Prerequisite: SOC100H5, 236H5/ 1.0 SOC credit at the 200 level

SOC341H5 Contemporary Issues in the Sociology of Work (SSc)

This course will focus on key changes in the world of work since the 1970s and their implications for different groups. We will engage different sides of debates about such issues as women in the workforce, recent immigrant and migrant workers, unions and mobility. Throughout the course, emphasis will be placed on how class, gender, ethnic and race relations shape work and occupations. [24L]

Exclusion: SOC228H5

Prerequisite: SOC100H5, 227H5

SOC345H5 Special Topics in Sociology (SSc)

This course explores a particular area within sociology. Topics will vary from year to year. See department website for details. [24L]

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level.

SOC346H5 Special Topics in Crime and Law (SSc)

This course will explore a particular area within crime and law. Topics will vary from year to year. See department website for details. [24L]

Prerequisite: SOC100H5, 209H5

SOC349H5 Sociology of Food (SSc)

Sociological analysis of food in global, regional and intimate contexts. It links cultural and structural aspects of the food system, historically and in the present. Students will investigate and report on inter-cultural food practices in Canada. [24L]

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level

SOC350H5 Quantitative Analysis I (SSc,SCI)

This is a continuation of SOC222H5 (Measuring Society) and includes more advanced discussion of descriptive and inferential statistics. Topics covered may consist of the following: frequencies, central tendency and dispersion, sampling distributions and the central limit theorem, estimate of confidence intervals and some basic hypothesis testing techniques. [24L]

Exclusion: SOC300Y5, BIO360H5, 361H5, ECO220Y5, 227Y5, PSY201H5, any STA course, except STA107H5.

Prerequisite: SOC100H5, 221H5, 222H5

SOC354H5 Global Sociology (SSc)

Approaches to transnational networks, structures and processes, such as diasporic networks, transnational corporations, and social movements. [24L]

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level

SOC356H5 Population and Society (SSc)

The course will discuss interrelationship between human population and societal issues such as aging, reproductive health, gender, environment, and social policy. Population structure and dynamics are examined in relation to social, economic, political, and cultural elements of change in both developing and developed world. [24L]

Exclusion: SOC312Y5, 312Y1

Prerequisite: SOC100H5, 221H5, 222H5

SOC359H5 Gendered Identities (SSc)

This course will focus on the production of gendered selves, femininity and masculinity, sexuality and sexual identities.

We will draw from theoretical and empirical work in the sociology of gender and related disciplines, emphasizing the ways in which gender intersects with class, ethnicity, race, religion and other forces of difference in the production of identities. [24L]

Exclusion: SOC365H5

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level

Recommended Preparation: SOC275H5

SOC361H5 Sociology of Organizations and Industrial Relations (SSc)

This course examines the structure and culture of organizations, including the range of management cultures, and how relationships among unions, management, and employees are affected by the social structure and culture of both the employer and the union as organizations. [24L]

Exclusion: SOC317Y5, 317Y1

Prerequisite: SOC100H5, 227H5

SOC362H5 Sex, Gender and Work (SSc)

This course will look at the situation faced by women in the workplace and workforce, and the implications for male employees. We will focus on classic and current research, theory and debates about sex segregation in jobs and occupations, the wage and earnings gap, and access to and exercise of authority by women in management positions. [24L]

Exclusion: SOC317Y5, 317Y1

Prerequisite: SOC100H5, 227H5

SOC371H5 Sociology of Punishment (SSc)

Punishment cannot be analyzed outside of its historical, cultural, economic, political and social context. This course offers students a critical, multidisciplinary approach to the study of punishment in Canadian society. [24L]

Prerequisite: SOC100H5, 209H5

SOC375H5 Sociology of International Migration (SSc)

This course will analyze the forces that cause people to leave the country of their birth. We will look at why some countries become predominantly leaving countries, and other immigrant receiving countries. Possible topics include the politics of integration, multiple citizenships, refugee and settlement policies, the development of transnational social spaces and transnational governance structures. Attention will also be given to the dynamics of race, ethnicity, class, and gender in structuring international growth. [24L]

Exclusion: SOC344Y1

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level

SOC378H5 Law, Crime and Disrepute (SSc)

This course will focus on the intersection of law and crime. Attention will be placed on the social production and organization of crime and its legal regulation, and will rely on the sociology of law to shed light on these issues. The course will attend to diverse types of law and crime including street crime, white-collar crime, and war crimes. [24L]

Prerequisite: SOC100H5, 209H5

SOC379H5 Sociology of Crime (SSc)

This course will review current ways of thinking about crime and society's response to it. Particular attention will be paid to the intersection of crime control and law enforcement. [24L]

Prerequisite: SOC100H5, 209H5

SOC380H5 Gender, Politics and Society (SSc)

This course analyzes the social structural forces that produce gender and the ways in which gender affects political and social change. Possible topics include: migration, social movements, social policy and the welfare state, and globalization. We will also pay special attention to the ways in which gender intersects with class, ethnicity, race, religion and other forces of difference. [24L]

Exclusion: SOC365H5

Prerequisite: SOC100H5, 1.0 SOC credit at the 200 level

Recommended Preparation: SOC275H5

SOC387H5 Qualitative Analysis I (SSc)

This course surveys various qualitative methods sociologists use. Students gain insight into the craft of sociology through reading examples of the different qualitative methods, discussing the theories behind the methods, and by conducting hands-on research exercises. The objective of this course is to learn to evaluate qualitative sociological work and to know how to design and conduct a qualitative research project. [24L]

Prerequisite: SOC100H5, 221H5

SOC391H5 Independent Research (SSc)

To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the Faculty Advisor. Intended for Sociology Specialists and Majors who have completed 10.0 credits, and who wish to explore in depth a particular subject area in Sociology. Students must have completed or be taking concurrently the required method and theory courses (SOC221H5, 222H5, 231H5, 232H5, 350H5), average in SOC courses. Students may take a maximum of 2.0 credits of independent studies. Not more than 1.0 credit may be taken with the same instructor.

SOC392H5 Independent Research (SSc)

To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the Faculty Advisor. Intended for Sociology Specialists and Majors who have completed 10 credits, and who wish to explore in depth a particular subject area in Sociology. Students must have completed or be taking concurrently the required method and theory courses (SOC221H5, 222H5, 231H5, 232H5, 350H5), or their equivalent), and have attained a 70% average in SOC courses. Students may take a maximum of 2.0 credits of independent studies. Not more than 1.0 credit may be taken with the same instructor.

SOC393H5 Independent Research in Criminology and Law (SSc)

To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the Faculty Advisor for the Criminology and Socio-Legal Studies Program. Intended for Criminology and Socio-Legal Studies Specialists and Majors who have completed at least 10.0 credits and who wish to explore in depth a particular subject area in Criminology and Socio-Legal Studies. In order to enrol, students must have attained an average of at least 70% in SOC courses. Students may take a maximum of 2.0 credits, or its equivalent, of independent studies. No more than 1.0 credit may be taken with the same instructor.
Prerequisite: SOC209H5, 305H5

SOC394H5 Independent Research in Criminology and Law (SSc)

To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the Faculty Advisor for the Criminology and Socio-Legal Studies Program. Intended for Criminology and Socio-Legal Studies Specialists and Majors who have completed at least 10.0 credits and who wish to explore in depth a particular subject area in Criminology and Socio-Legal Studies. In order to enrol, students must have attained an average of at least 70% in SOC courses. Students may take a maximum of 2.0 credits, or its equivalent, of independent studies. No more than 1.0 credit may be taken with the same instructor.
Prerequisite: SOC209H5, 305H5

SOC399Y5 Research Opportunity Program (SSc)

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 399Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program for more details.
Prerequisite: Completion of at least 10.0 credits

SOC410H5 Senior Seminar in Inequality (SSc)

This course offers an in-depth examination of selected topics in the sociology of inequality. [24S]
Prerequisite: SOC100H5, 221H5, 222H5, 231H5, 232H5, 1.0 SOC credit at the 300 level.

SOC411H5 Senior Seminar in Social Institutions (SSc)

This course offers an in-depth examination of selected topics in the sociology of social institutions. [24S]
Prerequisite: SOC100H5, 221H5, 222H5, 231H5, 232H5, 1.0 SOC credit at the 300 level.

SOC412H5 Senior Seminar in the Sociology of Work (SSc)

This course offers an in-depth examination of selected topics in the sociology of work. [24S]
Prerequisite: SOC100H5, 221H5, 222H5, 231H5, 232H5, 227H5, 1.0 SOC credit at the 300 level

SOC413H5 Senior Seminar in the Sociology of Gender (SSc)

This course offers an in-depth examination of selected topics in the sociology of gender. [24S]
Prerequisite: SOC100H5, 221H5, 222H5, 231H5, 232H5, 275H5, 1.0 SOC credit at the 300 level

SOC414H5 Senior Seminar in Political Sociology (SSc)

This course offers an in-depth examination of selected topics in political sociology. See department website for information about the current course. [24S]
Prerequisite: SOC100H5, 231H5/ 232H5, 335H5

SOC416H5 Senior Seminar in the Sociology of Culture (SSc)

This course offers an in-depth examination of selected topics in the sociology of culture. [24S]
Prerequisite: SOC100H5, 221H5, 222H5, 231H5, 232H5, 302H5

SOC417H5 Senior Seminar in the Sociology of Globalization (SSc)

This course offers an in-depth examination of selected topics in the sociology of globalization. [24S]
Prerequisite: SOC100H5, 221H5, 222H5, 231H5, 232H5, 236H5

SOC420H5 Senior Seminar in Crime and Deviance (SSc)

Restricted to Criminology and Socio-Legal Studies Specialists and Majors who have completed at least 10.0 credits. Topics will vary from year to year, see Department for details. [24S]

Prerequisite: SOC209H5, 305H5

SOC421H5 Senior Seminar in Criminology (SSc)

Restricted to Criminology and Socio-Legal Studies Specialists and Majors who have completed at least 10.0 credits. Topics will vary from year to year, see Department for details. [24S]

Prerequisite: SOC209H5, 305H5

SOC425H5 Gender in Global Contexts (SSc)

This lecture course looks at gender relations from a global perspective, focusing on how the social, political and economic aspects of globalization affect gender relations within various (local) contexts. Possible topics include gender and international migration, women's activism in local/global perspective and post-colonialism. [24L]

Prerequisite: 1.0 SOC credit at the 200 level, .5 SOC credit at the 300 level.

SOC432H5 Sociology of Genocide (SSc)

This lecture course will lead students through an in-depth consideration of why genocides occur. [24L]

Exclusion: SOC445H5

Prerequisite: 1.0 SOC credit at the 200 level, .5 SOC credit at the 300 level.

SOC433H5 Power, Politics and Society (SSc)

This lecture course will ask students to engage with classic and contemporary views on power and its relation to the social bases of politics and social movements.

Exclusion: SOC324H5

Prerequisite: 1.0 SOC credit at the 200 level, .5 SOC credit at the 300 level.

SOC444H5 Advanced Topics in Sociology (SSc)

An in-depth examination of selected topics in Sociology. Topics in this lecture course will vary from year to year. See department website for details. [24L]

Prerequisite: 1.0 SOC credit at the 200 level, .5 SOC credit at the 300 level.

SOC445H5 Advanced Topics in Sociology (SSc)

An in-depth examination of selected topics in Sociology. Topics in this lecture course will vary from year to year. See department website for details. [24L]

Prerequisite: 1.0 SOC credit at the 200 level, .5 SOC credit at the 300 level.

SOC446H5 Advanced Topics in Crime and Law (SSc)

An in-depth examination of selected topics in crime and law. Topics in this lecture course will vary from year to year. See department website for details. [24L]

Prerequisite: SOC209H5, 1.0 SOC credit at the 300 level.

SOC447H5 Advanced Topics in Criminology (SSc)

An in-depth examination of selected topics in criminology. Topics in this lecture course will vary from year to year. See departmental website for information about the current course. [24L]

Prerequisite: SOC209H5, 1.0 SOC credit at the 300 level

SOC448H5 Advanced Topics in Socio-Legal Studies (SSc)

An in-depth examination of selected topics in socio-legal studies. Topics in this lecture course will vary from year to year. See department website for information about the current course. [24L]

Prerequisite: SOC209H5, 1.0 SOC credit at the 300 level

SOC450H5 Inside-Out: Prisons and Punishment (SSc)

Based on the Inside-Out Prison Exchange Program model, this course matches a group of University of Toronto students ("outside" students) with an approximately equal number of incarcerated students ("inside" students) who study together as peers at an off-campus setting. Topics will vary by instructor, but will often revolve around questions of punishment, prisons, and governance. With the exception of the first week, all class sessions will be held inside the institution (e.g., penitentiary, detention centre, halfway house, etc.). Inside and outside students will work together on small teams to develop and then present a final project. Students must apply per department instructions that will be posted during the prior term. [24L] Restricted to Criminology and Socio-Legal Studies Specialists and Majors who have completed at least 12.0 credits.

Prerequisite: SOC209H5, 305H5, P.I.

SOC456H5 Senior Seminar in Law and Society (SSc)

The course will examine substantive debates in law and society. Restricted to Criminology and Socio-Legal Studies Specialists and Majors who have completed at least 10.0 credits. Topics will vary from year to year, see Department for details. [24S]

Prerequisite: SOC209H5, 1.0 SOC credit at the 300 level.

SOC457H5 Sociology of Race and Ethnicity (SSc)

This lecture course offers a theoretical and methodological discussion that will teach students to think sociologically about race and ethnicity. We will examine why the link between race and biology is problematic and the scientific evidence for it; how can we think about race and ethnicity without assuming that people are naturally divided into groups; social processes of ethnic and racial classification and ethnic and racial boundaries; ethnic and racial inequality, and how it is reproduced and contested. [24L]
Prerequisite: 1.0 SOC credit at the 200 level, .5 SOC credit at the 300 level

SOC459H5 Science, Technology and Society (SSc)

The focus of this lecture course will be on the varied social contexts of the emergence, development and consequences of science and technology in the modern world. In addition to critical sociological perspectives on science and technology, possible topics could include genomics, reproductive technologies, surveillance, the internet and social media, domestic technology, warfare, nuclear technologies, etc. [24L]
Prerequisite: 1.0 SOC credit at the 200 level, .5 SOC credit at the 300 level

SOC460H5 Migrant Labour (SSc)

This lecture course will focus on the intersection of citizenship status and class by examining the position and experiences of various categories of migrant labour in North America, Europe and other regions. Migrant groups include those with temporary status who come to work for a specific time frame in a particular job, those with no status (the undocumented) who work with mainly in an informal, unregulated economy, and immigrants with permanent resident status who work in a range of industries and occupations. We will read and write about theoretical and empirical work in the sociology of migration and related fields. [24L]
Prerequisite: 1.0 SOC credit at the 200 level, .5 SOC credit at the 300 level

SOC475H5 Sociology of Law and Lawyers (SSc)

This lecture course examines law and society through the lens of the legal profession. Law represents one of our most elite and influential professions; lawyers are responsible not only for the administration of justice, but also are key players in the country's economic and political life. This course will rely on empirical research to cover topics related to law school, where lawyers work and the work that they do. [24L]
Prerequisite: SOC209H5, 1.0 SOC credit at the 300 level

SOC480Y5 Experiential Learning (SSc)

Through a part-time, unpaid individual or team work placement, students apply sociological knowledge gained primarily through previous course work. Placements may be made at municipal social service departments or non-profit agencies providing social services, social movement or community-based organizations working for social change, courts or parole offices, for-profit workplaces or other organizations. Students will learn how to plan and execute a real-world project. Placements will typically be tied to a specific project and students will be involved in developing the project's terms of engagement and deliverables. Students will normally write a report at the end of the course. The final report will demonstrate how the students' sociological knowledge related to a real life setting, and how their engagement with experiential learning shaped their academic knowledge. Specialists in Sociology and Criminology and Socio-Legal Studies will be given priority. An interview may be required. CGPA 2.5
Prerequisite: Fourth year standing (completed 14.0 credits), P.I.

SOC491H5 Independent Research (SSc)

Open only to students who have completed 15.0 credits and have a 70% average in SOC courses. For other requirements and restrictions, see SOC391H5/ 392H5.

SOC492H5 Independent Research (SSc)

Open only to students who have completed 15.0 credits and have a 70% average in SOC courses. For other requirements and restrictions, see SOC391H5/ 392H5.

SOC493H5 Independent Research in Criminology and Law (SSc)

To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the Faculty Advisor for the Criminology and Socio-Legal Studies program. Intended for Criminology and Socio-Legal Studies Specialists and Majors who have completed at least 10.0 credits and who wish to explore in depth a particular subject area in Criminology and Socio-Legal Studies. In order to enrol, students must have attained an average of at least 70% in SOC courses. Students may take a maximum of 2.0 credits of independent studies. No more than 1.0 credit may be taken with the same instructor.
Prerequisite: SOC209H5, 305H5

SOC494H5 Independent Research in Criminology and Law (SSoc)

To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the Faculty Advisor for the Criminology and Socio-Legal Studies program. Intended for Criminology and Socio-Legal Studies Specialists and Majors who have completed at least 10.0 credits and who wish to explore in depth a particular subject area in Criminology and Socio-Legal Studies. In order to enrol, students must have attained an average of at least 70% in SOC courses. Students may take a maximum of 2.0 credits of independent studies. No more than 1.0 credit may be taken with the same instructor.

Prerequisite: SOC209H5, 305H5

SOC499Y5 Research Opportunity Program (SSoc)

This course provides a rewarding opportunity for students in their fourth year to undertake relatively advanced work in the research project of a professor in return for 499Y course credit. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program for more details.

Prerequisite: SOC100H5/ 101Y5, 200Y5(SOC221H5, 222H5), completion of at least 15.0 credits.

Statistics, Applied (HBSoc)**Professors**

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Statistical methods have applications in almost all areas of science, medicine, engineering, business, politics, psychology, law, and the environment. A practicing statistician is involved in a diversity of projects: testing the effectiveness of a new vaccine, working on the human genome project, forecasting stock yields, examining the effectiveness of television advertising, predicting election results.

Today we are bombarded with information from quantitative studies, information generated from the application of statistical methodologies. While much of this information is valid, some of it is not. An understanding of applied statistics will make you a critical consumer of numbers presented by the media. A basic knowledge of statistics should be an integral part of everyone's education.

The Applied Statistics Specialist Program at U of T Mississauga provides students with a solid foundation in the fundamental aspects of probability and introduces students to a broad range of applied statistics methodologies. The Major and Minor Programs in Applied Statistics consist largely of STA courses, and may be combined with programs in other subjects.

Introductory Applied Statistics Courses: Non-Calculus Based U of T Mississauga Statistics courses STA220H5 and STA221H5 are non-calculus entry-level introductions to statistics. Rough equivalents to these courses are offered by the Biology department (BIO360H5, and BIO361H5), the Economics department (ECO220Y5), the Psychology department (PSY201H5 and PSY202H5), the Sociology department (SOC350H5 and SOC351H5). In addition, the Statistics department offers (STA218H5) for the Management department. These courses are not intended

for students planning to pursue a degree in statistics, mathematics, or computer sciences.

Introductory Statistics and Probability Courses: Calculus Based U of T Mississauga Statistics courses STA107H5, followed by STA257H5, STA258H5 and STA261H5 are form a calculus based introduction to probability and applied statistics. These courses are intended for students planning to pursue a degree in statistics, mathematics, or computer science. Various other departments accept these courses in place of a non-calculus based introduction to applied statistics course.

Students enrolled in STA programs may participate in the PEY program. For more information visit www.pey.utoronto.ca

Students should also review the Degree Requirements section prior to selecting courses

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

BIO	Biology (page 76)
CSC	Computer Science (page 125)
ECO	Economics (page 143)
MAT	Mathematics (page 287)
PSY	Psychology (page 287)
SOC	Sociology (page 296)
STA	Statistics (page 306)

Specialist Program ERSPE1540 Statistics, Applied (Science)

Within an Honours degree, 12.0 credits are required.

Limited Enrolment – Enrolment in the Specialist program is limited to students with a minimum of 4.0 courses to include at least 60% in STA107H5 or 60% in STA257H5; and MAT137Y5 or 60% in MAT135Y5/ 134Y5 or 75% in MAT133H5; a minimum cumulative grade point average, to be determined annually.

First Year: CSC108H5; MAT102H5, 134Y5/ 135Y5/ 137Y5, 223H5; STA107H5

Second Year: MAT232H5/ 233H5, 212H5/ 242H5, 252H5/ 311H5; STA257H5, 258H5, 261H5

Third Year: MAT378H5; STA322H5/ 304H5/ 304H1, 302H5/ 331H5, 305H5/ 332H5, 348H5

Third and Fourth Years: STA413H5; three of STA312H5/ 313H5, 431H5, 437H5, 441H5/ 442H5, 457H5; 1.5 credits from (CSC411H5; MAT332H5, 334H5, 344H5, 368H5; any STA courses except STA218H5, 220H5, 221H5)

Notes:

1. MAT133Y5 is accepted if the student also completes MAT233H5 (in which case MAT232H5 is not required).
2. ECO220Y5 cannot be substituted for STA257H5 and/or STA258H5 and/or STA261H5. ECO227H5 can be substituted for STA257H5 and 258H5, but not STA261H5.
3. Students enrolled in this program may participate in the PEY program. For more information visit www.pey.utoronto.ca

Major Program ERMAJ1540 Statistics, Applied (Science)

7.0 credits are required.

Limited Enrolment – Enrolment in the Major program is limited to students with a minimum of 4.0 courses to include 60% in STA107H5 or 60% in STA257H5; and MAT137Y5 /135Y5/ 134Y5 or 75% in MAT133H5; a minimum cumulative grade point average, to be determined annually.

First Year: CSC108H5; MAT102H5, 134Y5/ 135Y5/ 137Y5, 223H5; STA107H5

Second Year: MAT232H5/ 233H5; STA257H5, 258H5, 261H5

Higher Years: STA302H5/ 331H5, 305H5/ 332H5; 1.0 additional credit from STA219H5, 312H5/ 313H5, 322H5/ 304H5/ 304H1, 348H5, 413H5, 431H5, 437H5, 441H5/ 442H5, 457H5

Notes:

1. MAT133Y5 is accepted if the student also completes MAT233H5 (in which case MAT232H5 is not required).
2. ECO220Y5 cannot be substituted for STA257H5 and/or STA258H5 and/or STA261H5. ECO227Y5 can be substituted for STA257H5 and 258H5, but not for STA261H5.
3. Students enrolled in this program may participate in the PEY program. For more information visit www.pey.utoronto.ca

Minor Program ERMIN1540 Statistics, Applied (Science)

4.5 credits are required.

First Year: MAT137Y5/ 135Y5/ 134Y5/ 133Y5

Second Year: MAT232H5/ 233H5, STA257H5, 258H5;

Second or Third Year: (STA220H5, 221H5)*/(PSY201H5, 202H5)*/(BIO360H5, 361H5)*/(SOC350H5, 351H5)/ECO220Y5*/(STA302H5/ 331H5,305H5/ 332H5)**

Higher Years: 1.0 additional credits from any STA course except STA218H5, of which at least 0.5 credits must be at 300/400 level.

Notes:

1. Course listed under second or third year with a single asterisks (*) must be completed prior to registration in STA257H5.
2. **STA302H5/ 331H5 and STA305H5/ 332H5 must be taken after STA258H5 has been completed.
3. Please note that 1.0 credits at 300/400 level, is required.
4. ECO220Y5 cannot be substituted for STA257H5 and/or STA258H5 and/or STA261H5. ECO227Y5 can be substituted for STA257H5 and 258H5, but not for STA261H5.

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

STA107H5 An Introduction to Probability and Modelling (SCI)

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, applications such as queues. [36L, 12T]
Exclusion: STA257H5; ECO227Y5
Corequisite: MAT134Y5/ 135Y5/ 137Y5/ (MAT133Y5, 233H5)

STA218H5 Statistics for Management (SCI)

Acquaints students with the statistical principles that managers need in order to extract information from numerical data, and to understand the formal principles of decision-making under conditions of uncertainty. Covers descriptive statistics, elementary probability, expected values, sampling distributions, point and interval estimation, hypothesis testing for normal and binomial data, and multiple regression analysis. [36L, 12T]
Exclusion: STA220H5, 248H5, 250H1, 257H5; BIO360H5; ECO220Y5, 227Y5; PSY201H5; SOC350H5, 351H5
This course is open only to students accepted into Management Specialist (ERSPE2431) or Management Major (ERMAJ2431).

STA219H5 Mathematics of Investment and Credit (SCI)

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. [36L, 12T]

Prerequisite: MAT134Y5/ 135Y5/ 137Y5/ (MAT133Y5, 233H5)

STA220H5 The Practice of Statistics I (SCI)

An introductory course in statistical concepts and methods, emphasizing exploratory data analysis for univariate and bivariate data, sampling and experimental designs, basis 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. [24L, 12T]
Exclusion: STA218H5, 248H5, 250H1, 257H5, 258H5; BIO360H5; ECO220Y5, 227Y5; PSY201H5; SOC350H5, 351H5

STA221H5 The Practice of Statistics II (SCI)

A sequel to STA220H, 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. [24L, 12T]

Exclusion: STA248H5, 250H1, 257H5, 258H5, 302H5; BIO361H5; ECO220Y5, 227Y5; PSY202H5; SOC350H5, 351H5

Prerequisite: STA220H5

STA257H5 Probability and Statistics I (SCI)

This course covers probability including its role in statistical modeling. 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. [36L, 12T]

Exclusion: STA255H1, 302H5, 352Y1; ECO227Y5

Prerequisite: MAT134Y5/ 135Y5/ 137Y5/ (MAT133Y5, 233H5)

Corequisite: MAT232H5 is strongly recommended

Note: MAT133Y5 is *not* accepted as a prerequisite, except with the addition of MAT233H5.

STA258H5 Statistics with Applied Probability (SCI)

(Replaces STA248H5.) A survey of statistical methodology with emphasis on the relationship between data analysis and probability theory. Topics covered include descriptive statistics, limit theorems, sampling distribution, point and interval estimation both classical and bootstrap, hypothesis testing both classical and bootstrap, permutation tests, contingency tables and count data. A statistical computer package will be used. [36L, 12T]

Exclusion: ECO227Y5; STA302H5, 248H5

Prerequisite: STA257H5

STA261H5 Probability and Statistics II (SCI)

A sequel to STA257H5 giving an introduction to current statistical theory and methodology. Topics include: estimation, testing, and confidence intervals; unbiasedness, sufficiency, likelihood; simple linear and generalized linear models. [36L, 12T]

Exclusion: STA352Y1

Prerequisite: STA257H5/ ECO227Y5

STA299Y5 Research Opportunity Program (SCI)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

STA302H5 Regression Analysis (SCI)

(Formerly STA331H5) Analysis of the multiple regression model by least squares; statistical properties of the least square analysis, including estimation 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 methods. [36L, 12T]

Exclusion: ECO327Y5; STA302H5

Prerequisite: STA258H5/ 261H5; MAT222H5/ 223H5/ 248Y5

STA304H5 Surveys, Sampling and Observational Data (SCI)

[previously offered as STA322H5] The sample survey is a widely used technique for obtaining information about a large population at relatively small cost. Only probability samples can provide both an estimator and a measure of sampling error from the data itself. In addition to sampling error, non-sampling errors (refusals, not-at-home, lies, inaccuracies, etc.) are always present, and can produce serious biases.

The course covers: design of surveys, sources of bias, randomized response surveys. Techniques of sampling; stratification, clustering, unequal probability selection. Sampling inference, estimates of population mean and variances, ratio estimation, observational data; correlation vs. causation, missing data, sources of bias. [36L, 12T]

Prerequisite: STA107H5/ 257H5/ ECO227Y5

Offered in alternate years.

STA305H5 Experimental Design (SCI)

(Formerly STA332H5) This course covers topics in the design and analysis of experiments. The topics covered include analysis of variance, randomization, confounding, block designs, factorial designs, orthogonal polynomials and response surface methods. Applications include agricultural experiments, laboratory experiments, and industrial experiments, including quality control techniques. [36L, 12T]

Exclusion: STA402H5

Prerequisite: STA331H5/ ECO327Y5/ STA302H1/ STA302H5

STA310H5 Statistics for Forensic Sciences I (SCI)

An introduction to the principles and procedures of statistics for the forensic sciences. The course covers both classical and Bayesian methodologies. Topics from classical statistics include data presentation, statistical distributions, estimation, hypothesis testing, introduction to ANOVA, introduction to regression, and contingency tables. Topics from Bayesian statistics include subjective probability, conditional probabilities, prior and posterior probabilities. Statistical computing will be required. [36L, 12T]

Exclusion: BIO360H5, 361H5; ECO220Y5, 227H5; PSY201H5, 202H5; SOC300Y5; STA220H5, 221H5, 257H5, 258H5

Prerequisite: MAT132Y5/ 134Y5/ 135Y5/ 137Y5/ 138Y5

STA311H5 Statistics for Forensic Sciences II (SCI)

A continuation of STA310H5. Topics from Bayesian statistics include conditional probabilities, estimation, likelihood ratios, prior and posterior probabilities and distributions. Applications to forensic sciences include propositions, relevant and irrelevant information, discriminating power, value of evidence, transfer evidence, introduction to fibre and DNA analysis. Statistical computing will be required. [36L, 12T]

Prerequisite: MAT134Y5/ 135Y5/ 137Y5/ (MAT133Y5, 233H5), STA310H5/ 258H5/ 221H5/ ECO227Y5/ BIO361H5/ PSY202H5.

STA312H5 Topics in Statistics: Applied Statistical Modelling (SCI)

Introduction to a topic of current interest in statistics. Content will vary from year to year. Computer packages are used. [36L, 12T]

Prerequisite: STA258H5/ ECO327Y5

Offered in alternate years.

STA313H5 Topics in Statistics: Applications of Statistical Models (SCI)

Introduction to a topic of current interest in statistics. Content will vary from year to year. Computer packages are used. [36L, 12T]

Prerequisite: STA258H5/ ECO327Y5

Offered in alternate years.

STA348H5 Introduction to Stochastic Processes (SCI)

(Replaces STA347H5) Discrete Markov chains with a finite number of states, random walks, single-server queues, continuous-time Markov chains, Poisson processes, branching processes, birth and death process, M/M/n queues, Martingales, Brownian motion and Monte-Carlo simulation may be introduced. [36L, 12T]

Exclusion: STA347H5

Prerequisite: STA257H5/ ECO227Y5, MAT223H5

STA378H5 Research Project (SCI)

Research project.

STA388H5 Topics in Statistics (SCI)

Introduction to a topic of current interest in statistics.

Content will vary from year to year. Enrolment by permission of instructor only.

Prerequisite: P.I.

STA390H5 Modern Applied Statistics (SCI)

Topics from modern statistics for applied sciences. May include: bootstrap estimation and testing, Monte Carlo simulation, Bayesian estimation and testing, empirical Bayes methods. Statistical computing will be required. [36L, 12T]

Prerequisite: STA221H5/ 257H5; MAT134Y5/ 135Y5/ 137Y5

STA413H5 Estimation and Testing (SCI)

This course replaces STA412H5. This course covers advanced topics in probability and mathematical statistics. Topics include convergence in probability, convergence in distribution, and convergence with probability one, sufficiency, completeness, Rao-Blackwell and Lehman-Scheffe theorems, and asymptotics. [36L, 12T]

Exclusion: STA412H5

Prerequisite: STA261H5

Offered in alternate years.

STA431H5 Structural Equation Models (SCI)

Random vectors and matrices, univariate and multivariate regression with measurement error, latent variables, model identification, the LISREL model, path analysis, confirmatory factor analysis, longitudinal data analysis, robustness of the normal model. A statistical computing package will be used. [36L, 12T]

Prerequisite: STA258H5

Offered in alternate years.

STA437H5 Applied Multivariate Statistics (SCI)

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 the partial multiple and canonical correlations; multivariate analysis of variance; profile analysis and curve fitting for repeated measurements; classification and the linear discriminant function. There will be extensive use of statistical computing packages. [36L, 12T]

Prerequisite: STA331H5/ ECO327Y5/ STA302H1/ STA302H5

Offered in alternate years.

STA441H5 Methods of Applied Statistics (SCI)

(Formerly STA442H5) 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. [36L, 12T]

Prerequisite: Any statistics course from any discipline.

Offered in alternate years.

STA457H5 Applied Time Series Analysis (SCI)

This course develops the theory and methodology for the statistical analysis of time series. The methods may be broadly characterized as time domain methods based on correlation (Box-Jenkins), or frequency domain methods based on a decomposition of the series into cycles (Fourier). The course develops both of these to the point where they may be applied using standard statistical software. Model identification, estimation and forecasting are discussed. Applications in social and physical sciences are used. [36L, 12T]

Prerequisite: STA331H5/ ECO327Y5/ STA302H1/ STA302H5

Offered in alternate years.

Theatre, Drama and Performance Studies (HBA)

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The study of Theatre, Drama and Performance examines the relationship between the artists who create written texts intended for production, the artists who turn scripts into performances, and the audiences who experience the resulting theatrical event. It is the study of the event itself, and the acts of creation involved in producing that event. Understanding Theatre, Drama and Performance involves the study of plays, actors, theatres, designers and audiences from the classical Greek stage to the most modern experimental performance. Theatre, Drama and Performance Studies offers three programs:

- Theatre and Drama Studies (Specialist; joint program between U of T Mississauga and Sheridan College)
- Theatre, Drama and Performance Studies Major

- Theatre, Drama and Performance Studies Minor

The focus of Theatre, Drama and Performance Studies at U of T Mississauga, both curricular and extra-curricular, is the Erindale Studio Theatre and the Multi-Media Studio Theatre. The Erindale Studio Theatre is used for performances of Theatre Erindale, the production company of the Specialist Program, and for performances of the U of T Mississauga Drama Club. MiST is used for teaching and co-curricular and extra-curricular performances by all programs.

Courses in related topics are given in many disciplines. A list of these courses is given in the General Notes for All Programs below, and students interested in the field are advised to consider taking some of them. No more than a combination of 15.0 Drama-related courses may be taken.

Enrolment in any Program of Study, including the second year of the Theatre and Drama Studies program, requires completion of 4.0 previous credits or their equivalent.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CIN	Cinema Studies (page 97)
CLA	Classics (page 100)
DRE	Drama (page 311)
DRS	Drama (page 311)
ENG	English (page 153)
FRE	French (page 184)
GER	Language Studies (page 235)
ITA	Italian (page 230)

Specialist Program ERSPE1880 Theatre and Drama Studies (Arts)

The Specialist Honours Program in Theatre & Drama Studies, offered jointly with Sheridan Institute, involves the study of plays, actors, theatres, designers and audiences from the classical Greek stage to the most modern experimental performance. We give students the opportunity to earn a two-year (equivalent) conservatory diploma in professional actor training from Sheridan within a Specialist degree in performance history and theory and dramatic literature from U of T Mississauga. This high-powered combined program prepares students for a career on the stage or behind the scenes in professional theatre world, or for drama teaching at the high school or university level.

Within an Honours degree, 12.0 credits are required.

Limited Enrolment – Enrolment in this program is limited to students who are successful in an audition, conducted in the spring of each year. For audition requirements, please see the website www.utm.utoronto.ca/reg/audition. Enrolment in all studio courses (DRS) is restricted to students in the program. Students applying to proceed to the second year of the Theatre and Drama Studies program must have completed 4.0 credits with a minimum CGPA of 2.0.

Please note: "Taking a year off" from this program is possible, if difficult, after first year, problematic after second year, and impossible after third year.

Returning at any point requires a successful re-audition and interview and also depends on the availability of space in the class you wish to join.

First Year: DRE/ENG121H5, 122H5; DRS121H5, 122H5

Second Year: DRE200H5, 222H5; DRS221H5, 222H5

Third Year: 1.0 further DRE at the 300/400 level; DRS321H5, 322H5, 325H5, 326H5

Fourth Year: 1.0 further DRE course at 300/400 level; DRS421H5, 422H5, 425H5, 426H5; 2.0 additional credits in drama-related courses.

Students must take a minimum 0.5 DRE at the 400 level in either third or fourth year.

Major Program ERMAJ2468 Theatre, Drama and Performance Studies (Arts)

Theatre, Drama and Performance Studies is for students who are interested in a broadly based interdisciplinary study of performance history, theory, and dramaturgy, as well as a range of courses in film studies and dramatic literature drawn from across the humanities disciplines. All courses are taken at U of T Mississauga.

7.0 credits are required, as follows:

DRS courses cannot be counted toward this program.

First and Second Years: DRE/ENG121H5, 122H5, DRE200H5, 222H5

Higher Years: 1.0 DRE at the 300 level and 4.0 credits from the drama-related courses, at least 1.0 at the 300+ level.

See Notes for all programs, below.

Minor Program ERMIN2468 Theatre, Drama and Performance Studies (Arts)

Theatre, Drama and Performance Studies is for students who are interested in a broadly based interdisciplinary study of performance history, theory, and dramaturgy, as well as a range of courses in film studies and dramatic literature drawn from across the humanities disciplines. All courses are taken at U of T Mississauga.

4.0 credits are required, as follows:

DRS courses cannot be counted toward this program.

First and Second Years: DRE/ENG121H5, 122H5, DRE200H5, 222H5

Higher years: 1.0 300/400 DRE credit and 1.0 further DRE from the drama-related courses.

NOTES FOR ALL PROGRAMS

1. Additional DRE courses and the following drama-related courses can be used to fulfill the requirements for any Theatre, Drama and Performance Studies program: CIN202H5, 301H5*; 302H5*; 303H5*; CLA300H5; ENG220Y5, 330H5, 331H5*, 335H5*, 336H5*, 340H5*, 341H5*, 342H5*, 352H5*, 424H5*/425H5*/426H5* (when drama related), 434H5*/435H5*/436H5* (when drama related), 460H5*/461H5*/462H5*/463H5* (when drama related); 470H5*/471H5*/472H5*/473H5* (when drama related), FRE317H5, FRC393H5, 397H5; GER353H5, 355H5*; ITA242Y5/243Y5*, 244Y5/245Y5*, 306H5/307H5*, 312Y5/313Y5*, 314Y5/315Y5*, 342Y5/343Y5*, 372Y5*, 490Y5*, 495Y5*

*= Departmental prerequisites

2. Students enrolled in Specialist and Major programs in Drama who have completed 2.0 DRE credits may enrol in ENG330H5, 331H5, 335H5, 336H5, 340H5, 341H5, 342H5

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time. Pre- and co-requisites will be strictly enforced.

List of Courses

DRS: These are studio courses limited by audition to those in the Theatre and Drama Studies Program; although participatory in nature, these courses may also require some written work.

DRS courses are taught at Sheridan Institute, Trafalgar Campus.

DRE courses are taught at U of T Mississauga.

DRE121H5 Traditions of Theatre and Drama (HUM)

An introductory survey of the forms and history of world drama from the classical period to the nineteenth century in its performance context. May include later works influenced by historical forms and one or more plays in the Theatre Erindale schedule of production. May include a research performance component. This course is also listed as ENG121H5. [36L]

Exclusion: DRM100Y1; ENG125Y1

DRE122H5 Modern and Contemporary Theatre and Drama (HUM)

An introductory survey of the forms and history of world drama from the late nineteenth century to the present in its performance context. May include film adaptations and one or more plays in the Theatre Erindale schedule of productions. May include a research performance component. This course is also listed as ENG122H5. [36L]

Exclusion: DRM100Y1; ENG125Y1

DRE200H5 Canadian Theatre History (HUM)

A survey of the history of theatre in Canada, with particular emphasis on developments since the mid-twentieth century.

Exclusion: DRM268H1

Prerequisite: DRE/ENG121H5, 122H5, or permission of the U of T Mississauga program director.

DRE222H5 The Performance Text (HUM)

An introduction to the techniques of dramaturgical analysis, through the study of a range of texts to which students might be exposed as theatre practitioners and audience members. Focus will be on the relationship between the performance event and its associated written text. Examples will emphasize modern and contemporary drama, as well as a range of styles, and will include one or more Theatre Erindale productions, and other appropriate productions, as well as a practical workshop component. [36L]

Exclusion: DRE240H5, 242H5, 244H5, 246H5

Prerequisite: DRE/ENG121H5, 122H5 or permission of U of T Mississauga program director.

DRE299Y5 Research Opportunity Program (HUM)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

DRE342H5 Studies in Twentieth Century Performance Styles (HUM)

A seminar on a topic chosen by the instructor, having a particular focus on twentieth century theories of performance. Includes optional practical workshop component. [24S]

Prerequisite: two of DRE200H5/ 220H5, 222H5, 240H5, 242H5, 244H5, 246H5 or permission of the U of T Mississauga program director.

DRE344H5 Studies in Theatre and Drama 1 (HUM)

Topic varies from year to year, depending on faculty research interests. [24S]

Prerequisite: 4.0 credits, including at least 1.0 Humanities course.

Recommended Preparation: DRE/ENG121H5, 122H5

DRE346H5 Studies in Theatre and Drama 2 (HUM)

Topic varies from year to year, depending on faculty research interests. [24S]

Prerequisite: 4.0 credits, including at least 1.0 Humanities course.

Recommended Preparation: DRE/ENG121H5, 122H5

DRE347H5 Studies in Theatre and Drama 3 (HUM)

Topic varies from year to year, depending on faculty research interests.

Prerequisite: 4.0 credits, including at least 1.0 Humanities credit.

Recommended Preparation: DRE/ENG121H5, 122H5

DRE348H5 Production Dramaturgy (HUM)

Plays from the Western theatrical tradition in contemporary productions

Prerequisite: DRE/ENG121H5, 122H5, 200H5/ 220H5, 222H5, or permission of the U of T Mississauga program director.

DRE350H5 Film Genres in Performance (HUM)

An introduction to the concept of genre through a selection of filmed and videotaped performances, playscripts, and theoretical readings. A number of genres will be covered, including some of: comedy, melodrama, police drama, western, science fiction, and horror. Includes optional practical workshop component. [24S; 24P]

Exclusion: CIN305Y

Prerequisite: 4.0 credits, including at least 1.0 Humanities course.

DRE352H5 Stage to Screen (HUM)

A theoretical and historical study of the relationship between live and recorded media, with special consideration of the translation/adaption from theatrical production to film and television production. Discussion will focus on case studies. Includes optional practical workshop component. [24S; 24P]

Prerequisite: 4.0 credits, including at least 1.0 Humanities.

DRE356H5 Theory of Drama (HUM)

A study of theories of drama, theatre and performance, with a special emphasis on semiotics. Topics will include the relationship between theatre and other modes of social interaction (the fashion show, the political convention), theatre and other performing arts, and theatre/drama as a literary genre. May include one or more Theatre Erindale and other productions in the syllabus. [24S]

Prerequisite: 4.0 credits, including at least 1.0 Humanities course.

Recommended Preparation: DRE/ENG121H5, 122H5

DRE358H5 The Audience and the Theatre (HUM)

A theoretical and historical examination of the theatrical performance with a focus on the role of the audience. Topics will include the shifting relationship with performers, both collaborative and manipulative, a reflection on what makes theatre audiences different from other audiences, and what precisely happens at various stages of the playgoing experience. The second part of the semester will be devoted to a series of historical case studies, ranging from ancient Greece through Shakespearian England to 17th-century Spain and 20th-century Germany. [24S]

Prerequisite: 4.0 credits, including at least 1.0 Humanities course.

Recommended Preparation: DRE/ENG121H5, 122H5

DRE360H5 Developmental Dramaturgy (HUM)

A theoretical, historical, and practical study of the process of developmental dramaturgy. The course will include a survey and analysis of historical and contemporary interpretations of the role of dramaturgy in the creation of new work. Students will also participate in the practical application of dramaturgical strategies and techniques. [24S]

Prerequisite: DRE/ENG121H5, 122H5; DRE200H5/ 220H5, 222H5

DRE362H5 Playwriting (HUM)

An introduction to the art and craft of writing for the stage. Through a variety of practical exercises, students will be encouraged to explore the unique properties of the theatrical environment. Topics for investigation will include general issues (such as language, plot structure, characterization, metaphor, and symbolism, etc.) as well as issues specific to the theatrical context (such as theatrical time and space, movement, engagement with an audience, relationship to other theatre practitioners, etc.). The class will involve writing in and out of class, as well as exercises in effective and constructive critique of one another's work. [36S]

Prerequisite: 4.0 credits, including at least 1.0 Humanities; permission of instructor. Admission to this limited enrolment course will be determined by the evaluation of a portfolio to be submitted by May 15 if an "F" course, by November 1 if an "S" course. Contact the Department for further information.

DRE366H5 Women in Theatre (HUM)

Topics in the history of women in English-language theatre. Topics will vary from year to year, depending on available faculty. May include a practical workshop component. [24S]

Prerequisite: 4.0 credits including at least 1.0 Humanities

Recommended Preparation: DRE/ENG121H5, 122H5

DRE392H5 Independent Study 1 (HUM)

An independent project in theatre and drama studies, chosen by the student and supervised by a member of the faculty. The form of the project will be determined in consultation with the supervisor. A written proposal, signed by the supervisor, must be submitted for approval to the Program Director by May 15 if an "F" course, by November 1 if an "S" course. Proposal forms are available from the Undergraduate Advisor. Independent Study courses may not be taken simultaneously.

Exclusion: DRM390Y5, DRE390Y5

Prerequisite: Permission of the U of T Mississauga program director, and completion of three DRM/DRE/DRS credits.

DRE394H5 Independent Study 2 (HUM)

An independent project in theatre and drama studies, chosen by the student and supervised by a member of the faculty. The form of the project will be determined in consultation with the supervisor. A written proposal, signed by the supervisor, must be submitted for approval to the Program Director by May 15 if an "F" course, by November 1 if an "S" course. Proposal forms are available from the Undergraduate Advisor. Independent Study courses may not be taken simultaneously.

Exclusion: DRM390Y5, DRE390Y5

Prerequisite: Permission of the U of T Mississauga program director, and completion of three DRM/DRE/DRS credits.

DRE399Y5 Research Opportunity Program (HUM)

For senior undergraduate students who have developed some knowledge of a discipline and its research methods, this course offers an opportunity to work on the research project of a professor. Students enrolled have an opportunity to become involved in original research, develop their research skills and share in the excitement and discovery of acquiring new knowledge. Project descriptions for the following fall-winter session are posted on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details
Exclusion: DRE299Y5

DRE420H5 Senior Seminar 1 (HUM)

A senior research seminar in Theatre and Performance. Topic will vary with instructor. [24S]
Prerequisite: 9 credits, including DRE/ENG121H5, 122H5; DRE200H5/ 222H5; or permission of the U of T Mississauga program director.

DRE422H5 Senior Seminar II (HUM)

A senior research seminar in Theatre and Performance. Topic will vary with instructor. [24S]
Prerequisite: 9 credits, including DRE/ENG121H5, 122H5; DRE200H5/ 222H5; or permission of the U of T Mississauga program director.

DRE463H5 Senior Seminar III (HUM)

A senior research seminar in performance and popular culture. Topic will vary with instructor. [24S]
Prerequisite: 9 credits, including DRE/ENG121H5, 122H5; DRE200H5/ 222H5; or permission of the U of T Mississauga program director.

DRS121H5 Acting 1 (HUM)

This course will introduce the elements of practical Vocal, Physical, Textual, and Improvisational training for the novice actor, together with an Introduction to Theatre Organization, with an emphasis on releasing the natural impulse. In addition, the student will spend a minimum of 3 hours per week (averaged) in Stagecraft Labs gaining basic backstage and front-of-house skills, and in production-related duties. Typical production tasks are concentrated in 3- to 9-week periods and may include evenings and/or Saturdays. [108P (72 studio classes plus minimum 36 labs and/or production)]
Corequisite: DRE/ENG121H5, 122H5

DRS122H5 Acting 2 (HUM)

The continuation of Acting 1 (see above). Stagecraft Labs are replaced, outside class hours, by a minimum of 3 hours per week (average) of production-related duties over the term. [108P (72 studio classes plus minimum 36 labs and/or production)]
Prerequisite: DRS121H5
Corequisite: DRE/ENG121H5, 122H5

DRS221H5 Acting 3 (HUM)

Half of this course will continue and build upon the work begun in first year in Voice, Text, and Movement. The other half will be an Introduction to Scene Study, including character analysis for the actor, with realistic material from the Canadian and International repertoire. The student will be assigned a minimum of 75 hours of production-related duties outside class time over the year; typical tasks are concentrated in 3- to 9-week periods and may include evenings and/or Saturdays. [108P (72 studio classes plus minimum 36 labs and/or production)]
Prerequisite: At least 4.0 credits including DRS121H5, 122H5 and DRE/ENG121H5, 122H5
Corequisite: At least one of DRE200H5/ 220H5, 222H5, 240H5, 242H5, 244H5, 246H5

DRS222H5 Acting 4 (HUM)

The continuation of DRS221H5 Acting 3. [108P (72 studio classes plus minimum 36 labs and/or production)]
Prerequisite: DRS221H5

DRS321H5 Acting 5 (HUM)

Vocal, Physical, and Interpretive Techniques for the developing actor now become more specialized. Clown, Period Movement, Contact Improvisation, Ensemble Singing, Intermediate Voice, Professional Practice, and various classical and contemporary Styles are included (components may vary with the availability of Guest Instructors). In addition, each student will be scheduled regularly for a half-hour Tutorial to work on acting problems in a one-on-one situation. [108P (96 studio classes plus tutorials)]
Prerequisite: DRS222H5 and permission of instructor, DRE200H5/ 220H5, 222H5
Corequisite: DRS325H5

DRS322H5 Acting 6 (HUM)

The continuation of DRS321H5, Acting 5. Tutorials culminate in the major solo performance and dramaturgy exercise called the Junior Project. [108P (96 studio classes plus tutorials and junior project)]
Prerequisite: DRS321H5 and permission of instructor
Corequisite: DRS326H5

DRS325H5 Production 1 (HUM)

The student will be cast in a public production, involving 12-33 hours of rehearsal and performance evenings and Saturdays for up to 9 weeks of the term. (Note that, at this level, evening classes in other departments are not possible.) [144P (average)]
Prerequisite: DRS222H5 and permission of instructor, DRE200/220H5, 222H5
Corequisite: DRS321H5

DRS326H5 Production 2 (HUM)

The student will be cast in a second public production, involving 12-33 hours of rehearsal and performance evenings and Saturdays for up to 10 weeks of the term. (Note that, at this level, evening classes in other departments are not possible.) [144P (average)]

Prerequisite: DRS325H5 and permission of instructor

Corequisite: DRS322H5

DRS421H5 Acting 7 (HUM)

Work on Voice, Text, and Movement continues at an advanced level. Solo Singing, Senior Voice, Unarmed Combat, Character Mask, and Dance for Actors are included (components may vary with the availability of Guest Instructors).

Regular half-hour Tutorials continue, with emphasis on the development of individual audition material.

Professional Practice classes include cold reading, mock auditions, and the realities of acting as a business. Styles include Acting for the Camera, plus workshops that could range from the Greeks to Chinese Opera.

[108P (96 studio classes plus tutorials)]

Prerequisite: DRS322H5, 326H5, and permission of instructor, 1.0 DRE credit at 300 level

Corequisite: DRS425H5

DRS422H5 Acting 8 (HUM)

The continuation of DRS421H5, Acting 7. [108P (96 studio classes plus tutorials)]

Prerequisite: DRS421H5 and permission of instructor

Corequisite: DRS426H5

DRS425H5 Production 3 (HUM)

The student will be cast in a third public production, involving 12-33 hours of rehearsal and performance evenings and Saturdays for up to 9 weeks of the term. (Note that, at this level, evening classes in other departments are not possible.) [156P (average)]

Prerequisite: DRS326H5 and permission of instructor, 1.0 DRE credit at 300 level.

Corequisite: DRS421H5, DRE421H5

DRS426H5 Production 4 (HUM)

The student will be cast in a fourth public production, involving 12-33 hours of rehearsal and performance evenings and Saturdays for up to 10 weeks of the term. (Note that, at this level, evening classes in other departments are not possible.) [156P (average)]

Prerequisite: DRS425H5 and permission of instructor

Corequisite: DRS422H5

Visual Culture and Communication (HBA)

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Visual Culture and Communication (VCC) is an interdisciplinary undergraduate curriculum that provides students with a foundation in both visual cultural and communication studies (history, theory and criticism) and digital communication practices (with courses taught at Sheridan Institute). The Specialist Program offers grounding in both the analysis of visual culture, and the practices of visual communication. Students also take courses that are drawn from the Communication, Culture and Information Technology program.

Increasingly, global cultures are dominated by visual communication, from art to advertising, propaganda to documentary photography, and film to websites. People of all generations are becoming active producers and consumers of visual culture. As digital technology expands, expertise in visual communication and design becomes essential for meeting the challenges of the global culture. VCC will prepare students to take an active and informed role in shaping 21st-century visual culture by bringing

historical and theoretical study from multidisciplinary perspectives to bear on contemporary practice and debate.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

CCT	Communication, Culture and Information Technology (page 111)
CIN	Cinema Studies (page 97)
FAH	Fine Art History (FAH) (page 51)
FAS	Fine Art Studio (FAS) (page 62)
VCC	Visual Culture and Communication (page 315)
VST	Fine Art History (FAH) (page 51)

Specialist Program ERSPE1200 Visual Culture and Communication (Arts)

Within an Honours degree, 12.5 credits are required, including at least 1.0 credit at the 400 level in VCC.

Limited Enrolment – Enrolment in this program is highly competitive and will be limited as follows (meeting the minimum requirements does not guarantee admission):

1. Minimum of 4.0 credits to include CCT100H5/ CCT109H5, CCT101H5/ CCT110H5, VST100H5 and VST101H5
2. Minimum Cumulative Grade Point Average (CGPA) determined annually. It is generally between 2.7 and 3.0 and never lower than 2.2
3. Minimum 65% average among CCT100H5/ CCT109H5, CCT101H5/ CCT110H5, VST100H5 and VST101H5 with at least 60% in each course.

Tuition fees for students enrolling in this Department of Visual Studies program will be higher than for other Arts and Science programs.

Specialists in VCC are strongly urged to structure their studies as follows:

First Year: 2.5 credits: CCT100H5/ CCT109H5, CCT101H5/ CCT110H5, VST100H5, VST101H5, VCC201H5

Second Year: 1.0 credit: FAH202H5, CIN202H5
1.0 credit from: CCT200H5, CCT204H5, CCT260H5
1.0 credit from: CCT205H5, CCT206H5, CCT210H5, VCC205H5, VCC207H5

Third Year: 1.5 credits from: any VCC courses at the 300/400 level;
1.0 credit from: any CIN or FAH course at the 300/400 level; CCT310H5 or CCT410H5.
3.5 credits from CCT300H5, 305H5, 351H5, 352H5, 353H5, 357H5, 453H5; with permission 1.0 credit from FAS246H5, FAS346Y5, FAS347Y5 (Note: there are prerequisites for most 200/300-level courses in FAS.)

Fourth Year: 1.0 credit: VCC400H5 and one other 0.5 VCC credit at the 400 level

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

VCC201H5 Introduction to Visual Culture (HUM)

(Formerly FAH201H5/ CCT201H5) Introduces the ways in which we use and understand images across the realms of art, advertising, mass media, and science, with examples drawn from painting, photography, film, television, and new media. Presents a diverse range of recent approaches to visual analysis and key theories of visual culture. [24L, 12T]
Exclusion: FAH201H5, CCT201H5
Prerequisite: CCT100H5/ CCT109H5 or FAH105H5/ FAH202H5

VCC205H5 Monsters (HUM)

This course examines monster movies and television shows alongside readings from monster literature, comics, and critical essays. It considers the social significance of the monster in order to learn something about how the threat of the monster relates to historical anxieties concerning mass-media technologies, social deviance, and the hybrid forms of visual media culture that we typically associate with the era of 21st-century convergence culture but define the genre of monster media from its ancient beginnings.

The course assumes and builds upon knowledge gained in the first year foundations sequence, Introduction to Visual Studies 1 and 2.[24L, 24P]
Exclusion: VCC340H5
Prerequisite: VCC201H5

VCC207H5 Urban Sites and Sounds (HUM)

Introduces students to histories and theories of urban spaces emphasizing the modern city. Drawing from history, architecture, geography, and media studies, the course explores how urban change is evident in the spaces, forms, and sounds of the modern city. Case studies of specific urban environments depending on instructor's research emphasis. [24L, 12T]
Prerequisite: VCC201H5

VCC304H5 Visual Culture and the Politics of Identity (HUM)

Examines the ways in which social-cultural identities are constructed by, and at times disrupt various visual technologies, logics, and representational strategies. Issues and problems to be addressed include: nationality, stereotyping, invisibility, and surveillance. Course materials will be drawn from modern and contemporary art and visual culture, and will also include readings from the fields of feminism, race studies, queer theory, and performance studies. [24L, 12T]
Prerequisite: CCT200H5/ VCC201H5 or P.I.

VCC306H5 Visual Culture and Colonialism (HUM)

Many of our most popular and influential image technologies, visual forms, and ways of thinking about images first developed in the second half of the 19th century: the heyday of European colonialism. This course re-examines the visual culture of modernity in the light of this deeply colonial genealogy, through forms such as photography, colour printing, film, exhibitions, postcards, maps, scientific illustrations, and the body as image. [24L]

Exclusion: VCC320H5

Prerequisite: VCC201H5

VCC308H5 Activism in Visual and Media Culture (HUM)

This course will examine political and social activism in visual and media culture focusing on the role that visual representation has played in social movements and how artists/activists have employed visual media to achieve specific ends that challenge and resist dominant visual representations and political formations. [24L, 12P]

Prerequisite: VCC201

VCC309H5 Society and Spectacle (HUM)

Spectacles have been vehicles of social and political power at varying historical moments and locations. Since Guy Debord's *Society of the Spectacle* was published in 1967 the term has been deployed as a critical concept for thinking about visual culture. This course takes up a number of historical case studies in order to locate and situate phenomena associated with spectacle and spectacular visual entertainments. Topics may include the role of images in mediating contemporary social relations and the connection between spectacle and violence. [24L, 24P]

Exclusion: VCC209H5

Prerequisite: VCC201H5

VCC310H5 Audio Art In The Visual Field (HUM)

This course will survey the recent literature and examine the tactics and strategies by which audio art interrupts, infects, and interpenetrates the visual field. The course will investigate the methods utilized by contemporary artists to diffuse sound through various media: installation, performance, video, cinema, recording, radio, and the internet. Issues of intention and reception will be considered in the same breath as issues of technique and technology. The course will examine key terms such as silence, noise, voice, speech, echo, and listening. [24L]

Prerequisite: VCC201H5

VCC334H5 Media Realities (HUM)

This course examines the relationship between mass media technologies and the idea of "reality" with an emphasis on the electronic and digital forms that dominate the discourse of "reality" in contemporary media culture, television and the Internet. It will explore such questions as: How do shifting aesthetic conventions of realism, "reality" programming, and documentary inflect both theoretical and historical understandings of what constitutes reality? And how do our ideas of media technology inform these conventions and the understandings they produce? [24L, 24P]

Prerequisite: VST100H5, VST101H5, VCC201H5

VCC336H5 North American Consumer Culture: 1890-Present (HUM)

Examines the history and theoretical treatments of mass consumerism in North American society. We will look at the relationship between the market and cultural politics, cultural production, and mass consumption. Specific topics include: the shift from mass production to mass consumption; the growth of department stores; the rise of advertising; the relationship of race, class and gender to consumer capitalism; the development of product brands; and the emergence of global marketing. [24L]

Exclusion: HIS336H5

Prerequisite: VCC201H5/ HIS271Y5

Previously HIS336H5

VCC338H5 Picturing the Suburbs (HUM)

This course considers how images of suburbia circulate between two interrelated but often counter-posed realms of visual culture: the popular genres of film, television, and new media entertainment and the iconography of "high" art practices such as painting, photography, and avant-garde film. In the process it addresses such fundamental issues as the relation between art and mass-production, the aesthetics of private and public space, and the role that visual media play in constructing the socio-political space of the built environment. [24L, 24P]

Prerequisite: VCC201H5

VCC360H5 South Asian Visual Culture (HUM)

Popular imagery from the Indian subcontinent is now increasingly visible in the global arena, particularly via the West's discovery of 'Bollywood.' But what have these images meant to South Asians themselves, what are their histories, what traditions and practices do they draw on? This course introduces key concepts for understanding South Asian visual culture and its multifaceted postcolonial modernity. Images examined include popular prints, film, photography, comic books, urban environments, advertisements, crafts, art, propaganda, rituals, television, and the internet. [24L]

Prerequisite: VCC201H5

VCC390H5 Topics in Visual Culture and Communication (HUM)

An in-depth examination of topics in visual and media culture, from both historical and contemporary perspectives. Topics vary from year to year, and the content in any given year depends upon the instructor. This will be a broad-based lecture course for approximately 75 students. [24L, 12T]

Prerequisite: VCC201H5

VCC399Y5 Research Opportunity Program (ROP) (HUM)

This course provides a richly rewarding opportunity for third or higher year students who have developed some knowledge of visual culture and communication to work in the research project of a professor in return for 399Y course credit. Students enrolled have an opportunity to become involved in original research, enhance their research skills and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project description for the following summer and fall/winter session on the ROP website in mid-February and students are invited to apply at that time. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.

Exclusion: CCT299Y5, CCT399Y5

Prerequisite: VCC201H5, a minimum of 10.0 credits.

VCC400H5 Advanced Project (HUM)

This course is designed to serve as a capstone course for VCC specialists. Students engage with advanced readings in the field and refine skills in critical analysis of selected topics in VCC. A major focus is the design and implementation of an advanced research project selected in consultation with an instructor. [36S]

Exclusion: CCT400H5, HSC400H5

Prerequisite: VCC 201H5 and completion of 13.0 credits. Open only to VCC specialists.

VCC405H5 Individual Project (HUM)

A research project carried out under the supervision of a faculty member. Students will carry out a research project on a selected topic related to VCC. Students must obtain signed permission from the faculty member who they would like to have as their supervisor.

Prerequisite: Completion of 13.0 credits and CCT400H5

Enrolment is limited

VCC406H5 Post-Colonialism and the Image (HUM)

How has the legacy of modern colonialism across the globe impacted how we see images, how we think about them and how we make them? And how do images perpetuate or overturn the legacy of colonial power relations? This course introduces students to the key concepts and debates in post-colonial theory as they relate to visual studies. [24S]

Prerequisite: VCC201H5, VCC306H5

Recommended Preparation: VCC304H5

VCC407H5 Architectures of Vision (HUM)

Based upon Michel Foucault's work on modern architectures of surveillance, control, and discipline, this course examines such modern and contemporary architectural-visual formations as the museum, domestic interior, cinema, and the residential and commercial skyscraper. Ways in which these sites have come to define notions of citizenship, privacy and publicity, and community, will be of particular focus and concern. [24S]

Prerequisite: 13.0 credits including a minimum of 1.0 VCC credit and VCC201H5.

Recommended Preparation: FAH289H5; VCC304H5

VCC409H5 Capital, Spectacle, War (HUM)

This course investigates the conjunction of contemporary global capitalism, spectacle, and militarized neo-liberal governmentality in order to develop a critical understanding of the inter-related forces that constitute the most current and politically and ethically pressing events in the world today. These may include the war on terror, the disaster film genre, technologies of surveillance, politics of humiliation and scandal, and theological and financial speculation and visions of the future. Readings will draw upon both historical and in many cases the latest work in political theory, cinema and new media studies, critical philosophy, and religious studies. [24S]

Prerequisite: VCC201H5, VCC309H5 plus at least 1.0 in VCC

VCC411H5 Real Space to Cyberspace (HUM)

Traditional conceptions of and re-conception of architecture and space – public and private – brought about by digital technology. Impact of western versus non-western notions of space on conception of political, social, and inner life; impact of new technologies (hyperspace, virtual reality) on real space, and imagined space in western and non-western world. [24S]

Prerequisite: FAH105H5; VCC201H5 plus at least 1.0 credit in VCC.

VCC415H5 Theory and Criticism of Photography and New Media (HUM)

Introduces a variety of approaches for interpreting, criticizing, evaluating, and theorizing photographs and photography in general. Examines how the thinking of photography is revisioned via major theoretical models. Concludes with a unit on theory and criticism of New Media. [24S]

Prerequisite: VCC201H5, FAH291H5/ FAH391H5 and 1.0 credit in VCC at 300/400 level

VCC425H5 Art and Media Culture (HUM)

Explores intersection of art, pop culture and mass media in Europe and North America between World War II and 1970. Reviews how the definition of art moved into an expanded field of media culture. Examines key movements (e.g., Pop, Fluxus, Situationism) to ascertain artistic practice in the age of media culture. [24S]

Prerequisite: 13.0 credits including VCC201H5 and a minimum of 1.0 VCC credit.

Recommended Preparation: FAH289H5; VCC308H5

VCC427H5 Participatory Media (HUM)

In order to explore the complex social and political issues surrounding the discourse of democratic participation in today's "new media" culture, this course provides a historical and theoretical survey of "old" media technologies that embrace the aesthetics of participation, running from popular theatre forms (including vaudeville and Chautauqua) to call-in radio shows, avant-garde and novelty films, activist video art, and the audience-based talk and game shows of fifties television that most directly prefigure the participatory genres of contemporary media programming. [24S,24P]

Prerequisite: VCC201H5 plus at least 1.0 in VCC

VCC430H5 Performing Failure: Techniques of Mutism (HUM)

This course focuses on the aesthetic and theoretical tropes of failure flourishing since WWII and covers a heterogeneous range of material, from the psychopathological and the physiological, to experiments in degenerative digital media. Utilizing conceptual handles such as the syncope in Clément's *The Philosophy of Rapture*, Blanchot's *The Writing of the Disaster* and Deleuze's notion of the particular we will examine contemporary art practices that enact mutism and perform failure as a means to reconsider the imperatives of communication. [24S]

Prerequisite: VCC201H5 plus at least 1.0 in VCC

VCC490H5 Topics in Visual Culture and Communication (HUM)

An in-depth examination of topics in visual and media culture, from both historical and contemporary perspectives. Topics vary from year to year, and the content in any given year depends upon the instructor. [24S]

Prerequisite: 13.0 credits including VCC201H5 and a minimum of 1.0 VCC credit.

Women and Gender Studies (HBA)

Professors

K. Ruffle, B.A., M.A., Ph.D.

Director

Dr. Joan Simalchik
Rm. 153D, North Bldg.
905-569-4491
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Departmental Supervisor

Duncan Hill
Rm. 153B, North Bldg.
905-569-4913
historical.studies@utoronto.ca

Academic Counsellor

Sharon Marjadsingh
Rm. 153C, North Bldg.
905-569-4914
sharon.marjadsingh@utoronto.ca

The Women and Gender Studies program examines questions of gender in every field of study, focussing particularly on the perspectives of women and on feminist analyses. This focus, which crosses disciplinary lines, can be carried into many areas, such as Anthropology, Literature, Art, History, Linguistics, Philosophy, Politics, Psychology, Religion and Sociology.

Students should also review the Degree Requirements (Page 34) section prior to selecting courses.

For courses in this area see:

ANT	Anthropology (page 41)
CLA	Classics (page 100)
DRE	Drama (page 311)
FAH	Fine Art History (FAH) (page 51)
FRC	French (page 184)
FRE	French (page 184)
GGR	Geography (page 196)
HIS	History (page 207)
JAL	Linguistics (page 242)
PHL	Philosophy (page 263)
POL	Political Science (page 275)
PSY	Psychology (page 287)
RLG	History of Religions (page 220)
SOC	Sociology (page 296)
VCC	Visual Culture and Communication (page 315)
WGS	Women and Gender Studies (page 319)

Major Program ERMAJ1443 Women and Gender Studies (Arts)

7.0 credits are required, including at least 2.0 at the 300+ level. 0.5 of these 2.0 300+ level credits must be a WGS course.

NOTE: Some "WGS" courses were formerly labelled "ERI".

Limited Enrolment – Students enrolling at the end of first year (4.0 credits) must obtain a CGPA of at least 1.80. Students applying to enrol after second year (8.0 credits) must obtain a CGPA of at least 2.00 and a mark of at least 65% in WGS200Y5.

First Year: WGS200Y5

Higher Years: 2.0 at the 300+ level, 0.5 must be a WGS course.

4.0 credits from WGS courses or from the following list of electives: ANT331H5/ 335H5; CLA319H5; DRE366H5; FAH435H5; FRC303H5; FRE391H5; GGR313H5; HIS308H5/ 310H5/ 314H5/ 326Y5/ 386H5/ 441H5/ 454H5; ITA227Y5/ 228Y5/ 318H5; JAL355H5; PHL243H5/ 267H5/ 380H5; POL368Y5; PSY311H5/ 354H5; RLG314H5; SOC216H5/ 263H5/ 275H5/ 359H5/ 380H5/ 362H5/ 413H5/ 425H5; VCC304H5

Minor Program ERMIN1443 Women and Gender Studies (Arts)

4.0 credits are required, including 1.0 at the 300+ level, of which 0.5 must be a WGS course.

First Year: WGS200Y5Y

Higher Years: 1.0 at the 300+ level, 0.5 must be a WGS course.

2.0 credits from WGS courses or from the following list of electives: ANT331H5/ 335H5; CLA319H5; DRE366H5; FAH435H5; FRC303H5; FRE391H5; GGR313H5; HIS308H5/ 310H5/ 314H5/ 326Y5/ 386H5/ 441H5/ 454H5; ITA227Y5/ 228Y5/ 318H5; JAL355H5; PHL243H5/ 267H5/ 380H5; POL368Y5; PSY311H5/ 354H5; RLG314H5; SOC216H5/ 263H5/ 275H5/ 359H5/ 380H5/ 362H5/ 413H5/ 425H5; VCC304H5

Students without pre- and co-requisites or written permission of the instructor can be de-registered from courses at any time.

List of Courses

WGS101H5 Introduction to Women and Gender Studies (HUM)

This foundation course introduces the core ideas students will explore throughout their studies in Women and Gender Studies. It immerses students in a highly participatory and provocative encounter with history, social theory, politics, policy, art and culture seen through a gender lens. It provides an interdisciplinary overview of the historical 'waves' of women's movements for equality in a global context and background to the development of Women/Gender Studies as a site of learning and feminist inquiry. [24L]

Exclusion: WGS160Y1/ WGSTA01H3/WGSTA03H3; May not be taken with or after WGS200Y5.

WGS200Y5 Theories in Women and Gender Studies (HUM)

This course provides an opportunity to engage in an in-depth examination of specialized and scholarly work within women and gender studies with a focus on the diverse, multidisciplinary and transnational expressions of feminist thought. It incorporates study of the themes and debates concerning the socially constructed categories of femininity, masculinity and gender and in historical and contemporary contexts. [48L, 20T]

Exclusion: NEW160Y1; ERI200Y5; WGS160Y1; WSTA01H3

Recommended Preparation: WGS101H5

WGS205H5 Women and Popular Culture (HUM)

This course explores the forms and functions of popular culture and its representation and understanding of the social category of women. It examines specific media forms including, but not limited to, film, song, visual arts, music, video, television, advertising and new media forms. It critically analyzes the impact of these portrayals on women in society while examining the cultural constructions of race, sexuality, class and ability. [36L]

Exclusion: WGS271Y1; WSTB13H3; May not be taken with or after WGS470H5.

WGS210H5 Women and Work in Contemporary Canada (HUM)

This course covers a wide range of issues relating to female participation in public and private sectors of the today's Canadian workforce. It examines the relevance of education, perceptions, sexuality and family issues. Services and infrastructure, as well as collective bargaining are also addressed. [36L]

WGS250H5 Women in Families (HUM)

This course studies how the notion of family is conceptualized and organized transnationally and historically and examines the multiple familiar roles of women in diverse contexts. [36L]

Recommended Preparation: WGS200Y5

WGS299Y5 Research Opportunity Program (HUM)

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall-winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (299Y, 399Y and 499Y) (Page 327) for more details.
Prerequisite: Completion of at least 4.0 and not more than 9.0 credits.

WGS301H5 Gender and Islam (HUM)

The course explores historical and contemporary debates regarding the construction of gender in Islam. It examines historic and literary representations, ethnographic narratives, legal and human rights discourses, the politics of veiling, and Islamic feminism. This course situates Muslim women as complex, multidimensional actors engaged in knowledge production and political and feminist struggles, as opposed to the static, victim-centered, Orientalist images that have regained currency in the representation of Muslim women in the post 9/11 era. [24L]
Exclusion: NEW368H1; WSTC13H3
Prerequisite: WGS200Y5

WGS335H5 Women, Migration and Diaspora (HUM)

This course examines the process of migration to Canada from a gender perspective, noting the interplay between structural impediments and women's own agency. Historical perspectives on migration and government policy, and on ways women have rebuilt lives and shaped communities. [24L]
Exclusion: ERI335H5, NEW335H1; WGS380H1

WGS336H5 Women, History and Representation (HUM)

This course evaluates the ways in which the category 'woman' has been constructed, enacted and embodied, historically and contemporarily, in Western art forms and performance including theatre and literature. It interrogates the ways in which the art forms have been altered by feminist theoretical models and focuses on modes of representation and the possibilities, limitations, and criticisms suggested by them. [24L]
Exclusion: JNV300H1
Recommended Preparation: WGS200Y/WGS205H

WGS337H5 Special Topics in Women and Gender Studies (HUM)

A special topic by guest instructor. Topics vary from year to year. Check the web site for current offerings. [24L]
Recommended Preparation: WGS200Y5

WGS350H5 Critical Race Theory in Women and Gender Studies (HUM)

This course's central focus is an examination of the way race and gender operate together in structuring social inequality. It offers the analytical tools for exploring the interconnections between race and gender, along with other systems of domination, and incorporates perspectives from women of colour and from women in the global "South." [24L]
Exclusion: WSTB11H3
Prerequisite: WGS200Y5 or P.I.
Recommended Preparation: WGS368H5

WGS355H5 Wired Women: Gender, Cyberspace and New Information Technology (HUM)

The course examines how computer technologies facilitate women's participation in cyberspace and how women define and construct their involvement. It studies the simultaneous generation of new modalities of empowerment and disempowerment including language, role-playing, communication, gaming, and networking and conduits for sex trafficking, harassment and other forums of exploitation. [24L]
Recommended Preparation: WGS200Y5

WGS365H5 Gender, Justice and the Law (HUM)

This course discusses the construction and representation of women in Canadian and International law. It analyzes specific contexts and historical issues including employment, sexuality, reproduction, deviance and a variety of justice theories relating to gender. [24L]
Recommended Preparation: WGS200Y5

WGS366H5 Women and Psychology (HUM,SSc)

An interdisciplinary analysis of the relationship of women to a variety of psychological and psychoanalytical theories and practices. Topics include gender development, stereotyping and gender roles, the impact of gender on intimate relationships, women and the psychological establishment, women's mental health issues and feminist approaches to psychoanalysis. [24L]
Exclusion: PSYD18H; WGS372H1
Prerequisite: WGS200Y5
Recommended Preparation: WGS367H5

WGS367H5 Women and Health (HUM,SSc)

Feminist theories and frameworks examining the interconnections between women, health and biomedicine in North America and transnationally. [24L]
Exclusion: ERI367H5, NEW367H1, WGS367H1
Recommended Preparation: WGS200Y5

WGS368H5 Women in World Cultures (HUM)

Examines the diversity and shared experiences of women in western and non-western societies. This is primarily a history course, supplemented with some contemporary perspectives. It compares women in diverse economic, cultural and religious settings. [24L]

Exclusion: ERI368H5; NEW368H1; WGS368H1

WGS369Y5 Gender, Colonialism and Cultural Resistance (HUM)

An introduction to some of the main concerns and debates associated with post-colonialism. Historical exploration of how subordination was forged and resisted in specific colonial settings. Examination of nationalist discourses, diasporic spaces, and feminisms. [24L]

Exclusion: NEW369Y1; WGS369H1

Recommended Preparation: WGS200Y5

WGS370H5 Gender, Sexuality, Identity (HUM)

This course examines philosophical, psychoanalytic and literary texts on love, passion, and desire from a gender studies perspective. Theoretical in "ethos", the course seeks to understand the role of love in the construction of gendered identity and sexuality. It explores, among other things, the tension between the notion of love as a threat to the integrity of the self on the one hand and the ideal of love as a site of psychic, bodily, and spiritual rebirth on the other. [24L]

Prerequisite: WGS200Y5 or P.I.

WGS410H5 Independent Project in Study of Women & Gender (HUM)

An opportunity to carry out an extended research project under the supervision of a faculty member. A proposal must be presented to the faculty member and consent obtained before the end of the July registration period.

Exclusion: ERI410H5; WGS411Y5

Prerequisite: WGS200Y5, 2.0 WGS300+ level credits.

WGS411Y5 Independent Project in Study of Women & Gender (HUM)

An opportunity to carry out an extended research project under the supervision of a faculty member. A proposal must be presented to the faculty member and consent obtained before the end of the July registration.

Exclusion: ERI411Y5; WGS410H5

Prerequisite: WGS200Y5, 2.0 WGS300+ level credits.

WGS419H5 Gender and Disability (HUM,SSc)

A critical interdisciplinary investigation of how gender impacts on central topics in disability studies: the normalized body and cultural representations; sexuality; violence; the cognitive and social roles of medicine; transnational perspectives on disability; and disability rights and issues of social justice including the experience of people with disabilities and responses of resistance. [24S]

Exclusion: WGS366H1

Prerequisite: WGS200Y5, 1.0 WGS300+ level credits.

WGS420H5 Engendering Human Rights (HUM)

This seminar analyzes human rights responses to particular gendered sites of historical repression including examples of genocide, torture and war. It includes reactions generated from government and international organizations as well as remedies developed by victims/survivors. [24S]

Prerequisite: WGS200Y5, 1.0 WGS300+ level credits/HIS338H5/ HIS438H5

WGS434H5 Special Topics in Women & Gender Studies (HUM)

A special topic by a guest instructor. Topics vary from year to year. Check the web site for information about this offering each term. [24S]

Prerequisite: WGS200Y5, 1.0 WGS300+ level courses.

WGS435Y5 Women and Gender Studies Practicum (HUM)

The practicum allows advanced WGS students to combine theory and practice through part-time unpaid placement with a community agency, government body, educational or social change organization. [24S]

Exclusion: WGS470Y1

Prerequisite: WGS200Y5

Recommended Preparation: 1.0 WGS300+ level credits.

WGS450H5 Theories of Sexuality (HUM)

This course offers a critical overview of contemporary theories of sexuality. Topics include heterosexuality, homosexuality, and bisexuality; transgenderism and transsexuality; essentialism and constructivism; desire, pleasure, fantasy and ideology; normativity and resistance; performativity and queer theory; as well as emotional risk and vulnerability. [24S]

Prerequisite: WGS200Y5, 1.0 WGS300+ level credits.

WGS470H5 Feminism and Popular Culture (HUM)

This course examines the ambivalent relationship between feminist theory and popular culture. Major themes include: the visual construction of the gendered, sexualized, and racialized subject; power and ideology; the gaze, desire, and fetishization; fantasy, seduction, and idealization; as well as the possibility of resistant and/or counter hegemonic interpretations. [24S]

Prerequisite: WGS200Y5, 1.0 WGS300+ level credits.

Recommended Preparation: WGS368H5/ 369Y5

9.5 Departmental Structure and Programs

University of Toronto Mississauga Departmental Structure and Programs

University of Toronto at Mississauga offers undergraduate and graduate programs of extremely high quality. Our programs are offered through 15 academic departments and one institute. Each program is taught by outstanding academics and supported by professional and friendly administrative staff. For a complete listing of programs offered, please see the program section of this Calendar. For a listing of faculty, please consult the listings for each program. Our departmental structure is as follows:

Anthropology

Department Chair: Professor Jack Sidnell

E-mail: jack.sidnell@utoronto.ca

Undergraduate Assistant: Maria da Mota, Room 300, Terrence Donnelly Health Sciences Complex

Contact: maria.damota@utoronto.ca, 905-828-3726

Program Areas Offered: Anthropology (Arts), Anthropology (Science)

The Anthropology program offers students the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods and to involve them in the research programs of the department. Students planning an Anthropology concentration should consult faculty members for advice.

For more information on the department visit www.utm.utoronto.ca/anthropology

Biology

Department Chair: Professor Bryan Stewart

E-mail: biochair.utm@utoronto.ca

Undergraduate Advisor: Yen Du, Room 3057, William G. Davis Bldg.

Contact: yen.du@utoronto.ca, 905-828-3999

Program Areas Offered: Behaviour, Genetics and Neurobiology (Specialist), Biology (Specialist, Major, and Minor), Bioinformatics (Specialist), Biomedical Communications (Minor), Biotechnology (Specialist), Comparative Physiology (Specialist), Ecology and Evolution (Specialist), Forensic Science (Specialist, Major), Molecular Biology (Specialist), Paleontology (Major)

The Biology Department at U of T Mississauga encompasses a large and diverse group of research disciplines, state-of-the-art facilities, and computational support systems with a faculty committed to undergraduate and graduate education as well as primary research. Undergraduate students with an interest in biology who have good writing, verbal and mathematical/computational

skills will find contemporary biology programs at U of T Mississauga exciting and rewarding. A degree in biology (or one of the other biology-related programs) provides a foundation for further training in such areas as environmental science, law, biotechnology, genetic counseling, forensics, bioinformatics, health professions, public health, governmental regulatory agencies, biomedical ethics, professional writing, teaching, basic research and for a wide array of career opportunities in industry, government, and education.

Chemical and Physical Sciences

Chair: P.M. Macdonald

E-mail: pm.macdonald@utoronto.ca

Undergraduate Assistant: Elizabeth Kobluk, Room 4059, William G. Davis Building

Contact: elizabeth.kobluk@utoronto.ca, 905-828-3800

Program Areas Offered: Astronomy, Astronomical Sciences, Biological Chemistry, Biomedical Physics, Chemistry, Earth Science, Forensic Science - Chemistry, Geology, Physics, Science Education

The chemical and physical sciences are central to our understanding of life, matter, and the formation of Earth and the Universe. Chemical and physical scientists combine laboratory experimentation, physical measurements and observations with theory, mathematical and computer models to study all natural systems at scales ranging from single atoms, molecules and cells to planets, stars and the Universe. Students in our programs are prepared for future graduate and professional studies in the chemical and physical sciences as well as exciting careers in medicine, dentistry, pharmacy, biotechnology, information technology, materials science, resource exploration, environmental monitoring, and science teaching.

Concurrent Teacher Education Program (CTEP)

CTEP Program and Internship Co-ordinator: John Smith

E-mail: john.smith@utoronto.ca

Academic Advisor: Belinda Grayburn, Room 235, North Building

Contact: belinda.grayburn@utoronto.ca

The Concurrent Teacher Education Program (CTEP) is a partnership between the Ontario Institute for Studies in Education (OISE) and six other academic units of the University of Toronto, including U of T Mississauga. It allows students interested in a career in teaching to complete two undergraduate degrees at the same time during five full-time years of study. Upon successful completion of the program, U of T Mississauga students will earn both a Bachelor of Education and either an Honours Bachelor of Arts or an Honours Bachelor of Science and will be recommended for certification as secondary or primary

school teachers in Ontario. This program prepares students to become teachers at the Intermediate-Senior levels (Grades 7 to 12), or Primary-Junior levels (Grades K to 6) depending on their program of study.

Economics

Department Chair: Professor Varouj Aivazian

E-mail: varouj.aivazian@utoronto.ca

Student Advisor: Ruby Mack

Room 127A, Kaneff Building

Contact: ruby.mack@utoronto.ca, 905-828-5404

Program Areas Offered: Economics, Financial Economics, Economics and Political Science, International Affairs, Human Resources and Industrial Relations

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.

English and Drama

Department Chair: Professor Holger Syme

E-mail: holger.syme@utoronto.ca

Undergraduate Advisor: Dianne Robertson

Room 289, North Building

Contact: dianne.robertson@utoronto.ca, 905-828-5201

Program Areas Offered: English, Canadian Studies, Theatre and Drama Studies, Theatre, Drama and Performance Studies

The Department of English and Drama offers three English programs that are the same as those on the St. George campus and three Drama programs unique to U of T Mississauga. Faculty expertise includes all literary forms; their historical, social, and material contexts; literary and performance theory; theatre history; and creative writing. The department's faculty also teach courses in the Graduate Department of English and at the Centre for Drama, Theatre and Performance Studies.

Geography

Department Chair: Professor Kathi Wilson

E-mail: chair.utm.geography@utoronto.ca

Academic Counsellor: Sabrina Ferrari, Room 3282, William G. Davis Building

Contact: sabrina.ferrari@utoronto.ca, 905-828-5465

Program Areas Offered: Geocomputational Science, Geographical Information Systems, Geography, Environmental Management, Environmental Science

Geography studies earth surface processes that determine the current use of the environment as expressed in patterns of human land use. Geography draws on the earth sciences to understand variations in the physical environment, as well as on the social sciences and humanities to understand the ways in which human beings create and organize the regions, economies and landscapes that cover our globe. Geographical Information Systems (GIS) are further aspects of the discipline, focused on the acquisition, management and display of spatial information. By combining their interest in physical and human processes, geographers play a crucial role in studying environmental problems and in developing strategies for dealing with them at global, regional and local scales. Environmental Management and Environmental Science are interdisciplinary program streams that are administered by the Geography Department.

For more on Geography, please visit: geog.utm.utoronto.ca

For more on Environment, please visit env.utm.utoronto.ca

Historical Studies

Department Chair: Shafique Virani

E-mail: hschair.utm@utoronto.ca

Academic Counsellor: Sharon Marjadsingh, Room 153C, North Building

Contact: sharon.marjadsingh@utoronto.ca, 905-569-4914

Program Areas Offered: Classical Civilization, Diaspora and Transnational Studies, History, History and Political Science, History of Religions, Women and Gender Studies

Historical Studies is a transdisciplinary department established by the merging of Classics, Religion and History in January 2005. This department provides students with a globally-framed historical education that encompasses programs in Classical Civilization, Diaspora and Transnational Studies, History, History and Political Science, History of Religions and Women and Gender Studies. Students completing these programs will attain a deep and critical historical comprehension of the interplay of classical civilization, world religions and historical societies.

Please visit www.utm.utoronto.ca/historicalstudies for updated information on the department.

Language Studies

Department Chair: Professor Michael Lettieri

E-mail: michael.letteri@utoronto.ca

Academic Counsellor: Rosa Ciantar, Room 235, North Building

Contact: rosa.ciantar@utoronto.ca, 905-828-3725

Program Areas Offered: French and Italian, French Studies, Functional French, Francophone Studies, French Language and Literature, Italian, Language Teaching and Learning: French and Italian, Language Teaching and Learning: French, Language Teaching and Learning: Italian; Experimental Linguistics.

The Department of Language Studies bases its mission on the notion that language and culture are inseparable and that the study of other cultures also offers new perspectives. By stressing cultural, linguistic, and critical skills, the department prepares students to succeed in further study and gives its graduates an important advantage as they pursue careers in an increasingly competitive global environment. The department is recognized as a leader in literary and critical scholarship, interdisciplinary innovation in curriculum and technology, and for its tradition of excellence in teaching and pedagogical research.

Management

Department Chair: Professor Mihkel Tombak

E-mail: mihkel.tombak@utoronto.ca

Student Advisor: Mary Wellman, Room 215, Kaneff Centre

Contact: mary.wellman@utoronto.ca, 905-828-5309

Program Areas Offered: Commerce, Management

Commerce Programs (BCom and BA (Major))

The Commerce programs combine economics and the various sub-disciplines of business and management enabling students to develop analytical skills and gain knowledge of institutions. The programs requires the study of a range of management disciplines and of topics in economics. The Specialist Program in Accounting allows students to complete the prerequisite studies for professional accounting qualifications (e.g. CA; CMA; CGA).

Management Programs (BBA and HBA/HBSc)

The BBA Management **Specialist** program leads to a BBA degree. Most of the courses have been specifically designed as part of an integrated package. The program provides the student with an understanding of the important aspects of management and with an integrated set of management skills. The Management **Major** program leads to either an Honours BA or an Honours BSc degree, depending on your second discipline. For example, Chemistry and Management will prepare you for a career in the chemical industry; English and Management for publishing.

Please visit our website for updated information on the Department: www.utm.utoronto.ca/management

Mathematical and Computational Sciences

Department Chair: K. Khanin

E-mail: chairmcs.utm@utoronto.ca

Undergraduate Counsellor: Yvette Ye, Room 4006, William G. Davis Building

Contact: ugmcs.utm@utoronto.ca, 905-828-3801

Program Areas Offered: Bioinformatics, Computer Science, Mathematical Sciences, Statistics

The Department of Mathematical and Computational Sciences is an amalgamation of Computer Science, Mathematics and Statistics, and provides opportunities for study in all of these disciplines. An overview of each discipline, as well as course offerings and program requirements, are listed under "Bioinformatics," "Computer Science," "Mathematics" and "Statistics."

Philosophy

Department Chair: Sergio Tenenbaum

E-mail: chair.philosophy.utm@utoronto.ca

Undergraduate Advisor: Dianne Robertson
Room 289, North Building

Contact: dianne.robertson@utoronto.ca, 905-828-5201

Program Areas Offered: Logic, Philosophy, Philosophy of Science

Philosophy asks and tries to answer some of the deepest and most persistent questions about ourselves and our relations to each other and the natural world: What is knowledge? What is justice? What is goodness? Who am I? What am I? Philosophy tries to answer these questions by employing a highly reflective methodology: by employing concepts, reasoning and strategies of explanation that have themselves been critically assessed within philosophy for their clarity, soundness and cogency. Philosophers are also aided in answering these questions by a critical engagement with the views, spread over millennia, of the likes of Plato, Aristotle, Descartes, Leibniz, Hume, Kant, Hegel, Nietzsche, Frege and many others, on these very questions. Specialists, Majors and Minors can look forward to a substantial engagement with deep issues and thinkers.

Political Science

Department Chair: Professor Ed Schatz

E-mail: ed.schatz@utoronto.ca

Academic Counsellor: Norma Dotto, Suite 3125, William G. Davis Bldg.

Contact: norma.dotto@utoronto.ca, 905-828-3921

Program Areas Offered: Political Science (Specialist, Major, Minor), Joint Programs with History and Economics

Political Science is an enormously wide-ranging discipline and U of T Mississauga faculty cover all its main branches.

Courses reflect on questions such as: Who has the right to rule? How do we balance freedom and social order? How should Western democracies respond to the threat of terrorism? Is the Prime Minister of Canada little more than an elected dictator? Does the spread of the internet and other modern communications technologies offer a whole new range of opportunities for citizen participation and influence on government or does it subject citizens to government surveillance and control of their lives on an unprecedented scale? Can international agreements like the Kyoto Accord be effective?

Political science attempts to explore these and other key questions of the modern world in a systematic fashion, emphasizing evidence, argument and analysis.

Some Political Science graduates use their degrees in their jobs in government, in private sector firms dealing with government and in organizations attempting to influence public policy.

Psychology

Department Chair: Professor Meredyth Daneman

E-mail: psychair.utm@utoronto.ca

Associate Chair and Undergraduate Director: Dr. Stuart Kamenetsky, Room 4004, CCT Building

Contact: stuart.kamenetsky@utoronto.ca, 905-828-3958

Academic Counsellor: Jodie Stewart, Room 2037B, William G. Davis Building

Contact: jodie.stewart@utoronto.ca, 905-828-5414

Program Areas Offered: Behaviour, Genetics and Neurobiology, Exceptionality in Human Learning, Psychology, Forensic Psychology (with Forensic Science)

Psychology is the science that examines the structure and organization of behaviour in animals and humans. It is concerned with the means by which behaviour is acquired, and explores the mechanisms of adaptation to the social and physical environments. Emphasis is on cognitive, social, physiological, genetic and other factors that determine or affect behaviour.

Among the topics covered by Psychology courses are developmental changes in behaviour, learning, the structure and organization of the senses, modes of perceiving and responding to the environment, genetic events that shape behaviour, the origins and implications of drives, motives, conflicts, and emotions, and the wide variety of individual and species differences that are produced by differences in genetic endowment, physiology and past experience.

Sociology

Department Chair: Professor Shyon Baumann

E-mail: shyon.baumann@utoronto.ca

Associate Chair, Undergraduate Affairs: Professor Cynthia Cranford

E-mail: c.cranford@utoronto.ca

Academic Counsellor: Julie Waters

Contact: julie.waters@utoronto.ca, 905-569-4288

Program Areas Offered: Sociology, Criminology and Socio-Legal Studies

The Department of Sociology offers five programs: a Minor, Major and Specialist in Sociology and a Major and Specialist in Criminology and Socio-Legal Studies. Sociologists study social structures and social processes. These structures include, the family, social class, race and ethnic relations, religious affiliation, criminal behaviour and the criminal justice system, the global system and the environment among many others. As a science, sociologists are committed to rigorous research including both quantitative and qualitative data. The Criminology and Socio-Legal Studies Specialist is intended for students who wish to go on to graduate studies in this or a similar area. The Major provides a broad foundation for students who may have an academic or civic interest in law, crime and criminal justice. This might include: a) students who at a later stage may wish to pursue more advanced work in areas related to, for example, law, criminology, criminal justice, public policy, or social work; and b) students wanting to know more about the complexities of criminal and deviant behaviour, and the administration of legal and criminal justice, particularly in relation to public policy issues.

Visual Studies

Department Chair: Prof. Louis Kaplan

E-mail: dvschair.utm@utoronto.ca

Undergraduate Counsellor: Stephanie Sullivan

E-mail: s.sullivan@utoronto.ca

Contact: Ph. 905-828-3899, Fax: 905-569-4262

Website: www.utm.utoronto.ca/dvs

Program Areas Offered: Art History (Specialist, Major, Minor), Art and Art History (Specialist, Major), Cinema Studies (Minor), Visual Culture and Communication (Specialist, with CCIT)

The Department of Visual Studies (DVS) incorporates a wide range of methods, theories and media in order to examine the place of visuality in human experience. In fostering deep and critical engagement with visual evidence, programs in the DVS help students develop expertise in visual literacy, a fundamental skill in today's image- and media-saturated environment. Courses offered in the DVS examine the history, production and reception of a range of visual and aural texts, including photography, new media, popular culture and advertising; painting, sculpture, architecture and the built environment; contemporary art, curatorial studies and museum culture; and time-based media, including film and television. Courses analyze many geographical and chronological settings, from ancient Rome to contemporary South Asia, and engage a variety of theoretical and methodological perspectives. DVS programs also are designed to foster the

development of critical reading and writing skills. The department's collaborative programs with Sheridan offer the possibility for students to receive both practical and academic studies in Art and Art History and in Visual Culture and Communication. The department houses the award-winning Blackwood Gallery and the Visual Resource Library, which also assists students. Graduates of DVS programs go on to careers in curatorial and museum work, web design, teaching, and arts journalism, as well as pursuing graduate study in art history, architecture, cinema studies, cultural studies, studio art and related fields. Units within the department:

Blackwood Gallery

Website: www.blackwoodgallery.ca

General Inquiry: 905-828-3789

Visual Resources Library

Room 3021, CCT Building

Website: www.utm.utoronto.ca/vrl

Contact: 905-569-4610

Institute of Communication, Culture and Information Technology (ICCIT)

Director: Professor Anthony Wensley

E-mail: iccit.utm@utoronto.ca

General Inquiry: 905-569-4489

Communication, Culture and Information Technology (CCIT)

Director: Professor Anthony Wensley

E-mail: anthony.wensley@utoronto.ca

Undergraduate Advisor: Rose Antonio

E-mail: rose.antonio@utoronto.ca

Program Areas Offered: Communication, Culture and Information Technology; Digital Enterprise Management; and Interactive Digital Media

General Inquiry: 905-569-4398

Professional Writing and Communication (PWC)

Director: Professor Guy Allen

E-mail: guy.allen@utoronto.ca

Student Advisor: Lisa Peden

E-mail: lisa.peden@utoronto.ca

Program Areas Offered: Professional Writing and Communication

General Inquiry: 905-569-4398

10 Course Descriptions

10.1 Course Key

The word "courses" refers to full courses, or the equivalent in full and/or half courses.

Course Designations

"ANT," "AST," "BIO," etc. To the best of our ability, all courses are listed in the Academic Calendar using the three letter prefix as the alpha link. Most courses are listed under the departmental that is responsible for this area. i.e. ANT = Anthropology courses.

Course Number

The course number generally indicates the level of difficulty, e.g., a 100 level course normally indicates an introductory course, a 400-level course is an intensive course at the senior level.

Campus Code

Each course code includes a campus code that indicates on which campus a particular course is offered. 1= St. George 3= U of T Scarborough 5= U of T Mississauga

Course Suffixes

The "Y" or "H" following the Course Number in this calendar indicates only the credit value: "Y" = a full course, for which one credit is given. "H" = a half-course, for which one-half credit is given.

To determine the periods of instruction, refer to the course timetable on the U of T Mississauga website, www.utm.utoronto.ca, where the following course suffixes apply:

- F Course given in the Fall Session or the first sub-session of the Summer.
- S Course given in the Winter Session or the second sub-session of the Summer.
- Y Course extending over both Fall and Winter Sessions or over the entire Summer Session.

NOTE: Not all courses listed in this calendar will be offered in any one single session. Check the timetable for each session for the specific courses offered in that session.

Types and Duration of Instruction

"L" = Lectures

"P" = Practical work in laboratories or studios

"S" = Seminars

"T" = Tutorials

In the Fall+Winter Sessions, the normal period of instruction is 24 weeks, with each session being 12 weeks. Total hours of instruction are indicated by codes at the end of the course description; for instance, "48L" = 48 lecture hours, "24T" = 24 tutorial hours.

NOTE: Please note that the number of hours listed is approximate only. The actual contact hours of a course, or of different sections of a course, may vary somewhat

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. The variation is at the discretion of the department sponsoring the course. Any questions concerning the allotment of hours in a course should be addressed to the course sponsor.

10.2 Symbols Used in Course Descriptions

- (P.I.) Permission of instructor required to enrol.
- (I) Open to first-year students (shown after 200+ course number).
- (1) Course available on the St. George campus; i.e., ANT100Y1 (shown at the end of course number)
- (3) Course available on the U of T Scarborough campus; i.e., ANTA01Y3 (shown at the end of course number)
- (5) Course available on the U of T Mississauga campus; i.e., ANT100Y5 (shown at the end of course number)

The comma (,) the semi-colon(;), the ampersand (&) and the plus sign (+) all mean "AND".

The slash (/) means "OR"

NOTE: In the biological and science teaching programs there may be occasions when anatomical, biochemical, physiological and pharmacological observations are made by students on themselves or on fellow students. These include some 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 teaching program, participation is voluntary.

10.3 Research Opportunity Program (299Y, 399Y and 499Y)

The Research Opportunity Program (ROP) provides an opportunity for students to earn 1.0 full credit by participating in a faculty member's research project.

The ROP application and approval process (ROPAPP) is online. Descriptions of ROP299Y, 399Y and 499Y projects will be available late February to early March of each year. Students wishing to apply for placement in an ROP project must log in to the ROPAPP using their UTORid. Access to the application is through the ROP website, www.utm.utoronto.ca/rop. Students will be notified by e-mail if they are successful in obtaining placement in the program. Successful students will be automatically registered in their approved ROP course during the normal registration periods for both Summer and Fall-Winter sessions, respectively. NOTE: The ROP is an instructor-based approval program.

Students will not be permitted to accept more than one 299Y5 course. However, they will be permitted to accept more than one 399Y5 or 499Y5 course, as long as they are not in the same discipline. A list of the prerequisites and exclusions can be found on the ROP website. Students are responsible for reading and understanding the rules and prerequisites required for acceptance into the program.

Each #99Y5 course will bear the three-letter designator of the academic discipline concerned, i.e., ENG399Y5, SOC399Y5 etc. Not all departments will necessarily participate in the ROP each year.

If you have any questions concerning prerequisites and exclusions or about program and degree requirements with respect to the ROP, arrange to speak with an academic advisor in the Office of the Registrar or the undergraduate advisor for the program.

For more information visit www.utm.utoronto.ca/rop.

11 Publications (Electronic and Paper)

The Calendar

The printed and electronic versions of the U of T Mississauga Calendar serve as an academic information guide and statement of the most important rules and regulations for students seeking to obtain the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Commerce or Bachelor of Business Administration from the University of Toronto Mississauga.

Course descriptions, complete curriculum information, exclusions, prerequisites, academic advisory information and information on each program area is available in the calendar. You should read all information regarding the programs they are interested in, including all course descriptions, prerequisite and exclusionary information and degree requirements. This information will help you to select the courses you need to complete your program of choice while meeting your needs and interests. Academic advisors are available at the Office of the Registrar and through most programs to assist you in answering questions regarding programs, courses, timetabling and preparation for courses. When researching the courses and programs, you are encouraged to pay particular attention to exclusions, prerequisites and corequisites. If you wish to have such requirements waived, or if you have equivalent qualifications, you must consult the program offering the course.

U of T Mississauga Registration Guides

A supplementary Fall/Winter Registration Guide is issued in April/May and a Summer Registration Guide is issued in March/April. They contain specific registration and

enrolment instructions. The information contained in these guides is as important as that in this calendar. The information contained in the guides is also available at www.utm.utoronto.ca/reg.

Student Account Information

This information on academic and incidental fees, payment procedures and refunds, is available on the Student Accounts website, www.fees.utoronto.ca. Students who want a paper copy sent to them can contact Student Accounts and the information will be mailed to them.

Summer Session Information

The list of course offerings for Summer Session is available in February. Check the www.utm.utoronto.ca/timetable.

Home Page on the World Wide Web

This electronic publication of the University of Toronto Mississauga provides frequently updated information about the University of Toronto Mississauga, its academic program, the library, campus events, research and expertise, alumni information, student organizations and other such information. Visit the site regularly at: www.utm.utoronto.ca

12 Officers: U of T Mississauga and University of Toronto

A list of officials of the University of Toronto can be found at: www.utoronto.ca/govcncl/tgc

13 Codes and Policies

13.1 Guidelines Concerning Access to Student Academic Records

Purpose: The University supports appropriate access to, and privacy of, official student academic records consistent with its commitment to the requirements of Freedom of Information and Protection of Privacy Act (FIPPA). These guidelines are intended to outline university-wide procedures and criteria for access, privacy, custody, and retention of the academic records of students of academic divisions of the University in order to ensure clarity and consistency of practice.

1. For the purposes of these Guidelines:

- (a) "Student" means any person registered at the University for full-time or part-time study in a program that leads to a degree or post-secondary diploma or certificate of the University or in a program designated as a program of post-secondary study at the University by the Governing Council or other University body having delegated authority. On the date of an enquiry or request relevant to this policy, persons who have been registered within a period of two calendar years shall be included in the provisions which relate to "students".
- (b) "alumnus" or "alumna" means any person who has received a degree or post-secondary diploma or certificate from the University, or any person who has completed one year of full-time studies or the equivalent thereof as determined by the Governing Council, towards such a degree, diploma or certificate, and is no longer registered at the University.
- (c) "former student" means any person who has been registered at the University in a program as defined in Section 2(a), has not been registered at the University within a period of two calendar years, and who is not an alumna.
- (d) "Student Society" means a recognized student group as defined by the Policy for Compulsory Non-Academic Ancillary Fees.

2. Definition of the official student academic record

These guidelines pertain to student personal and academic information regardless of where, and in what medium, it resides. The official student academic record consists of the following information relating to a student's admission to and academic performance at this University:

- (a) Permanent information
 - i. Personal information which is required in the administration of official student academic records such as name, student number, citizenship, social insurance number.
 - ii. Registration and enrolment information.
 - iii. Results for each course and academic period.
- (b) Information used during the period of enrolment
 - i. Narrative evaluations of a student's academic performance subsequent to his or her admission, used to judge his or her progress through an academic program.
 - ii. Basis for a student's admission such as the application for admission and supporting documents.
 - iii. Results of petitions and appeals filed by a student.
 - iv. Medical information relevant to a student's academic performance which has been furnished at the request or with the consent of the student concerned.

- v. Letters of reference which may or may not have been provided on the understanding that they shall be maintained in confidence.
- vi. Personal and biographical information such as postal address, email address and telephone number.

3. Access to official student academic records

(a) Access by a student

- i. A student may examine and have copies made, at his or her expense, of his or her official student academic record defined in Section 1 above, with the exception of those portions of the record which comprise letters of reference (Section 2(b)(v)) 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. A student's request to examine a part of his or her official student academic record shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall normally occur within 30 days of receipt of the request, or within such lesser period as a division may determine.
- iii. A student has the right to challenge the accuracy of his or her official student academic record and to have his or her official student academic 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 does not appear on reports such as transcripts or statements of results.

(b) Access by alumni and former students

- i. An alumnus or alumna or a former student may examine and have copies made of the portion of his or her official student academic record as defined in Section 2(a) above.
- ii. A request from an alumnus or alumna or a former student to examine the portion of the official student academic record as defined in Section 2(a) shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall normally occur within 30 days of receipt of the request, or within such lesser period as a division may determine.

- iii. An alumnus or alumna or a former student shall have the right to challenge the accuracy of his or her official student academic record only under such terms and conditions as the academic division may determine and publish in the divisional calendar.

(c) Access by University Staff and members of official University and divisional councils and standing committees

- i. Members of the teaching and administrative staff of the University and members of official University and divisional councils and committees shall have access to portions of an official student academic record only as they need it for purposes related to the performance of their duties, and where their access to it is necessary and proper in the discharge of the University's functions.
- ii. Access to medical information as defined in Section 2(b)(iv) shall be granted to members of the teaching and administrative staff only with the prior express consent of the student.
- iii. The Division of University Advancement shall have access to such personal information of students and alumni as is required for its own fundraising activities, such as maintaining contact with alumni. This information includes program(s) of study, years of attendance, and degree(s) obtained, but does not include academic performance.

(d) Access by University campus organizations

- i. University of Toronto Student Societies shall have access to the following information for the legitimate internal use of that organization: the name, sessional address, and telephone number of students who have been charged a compulsory non-academic incidental fee on behalf of the society. For purposes where an individual student's identity must be verified, additional information may be provided. The nature of the information, and the terms and conditions under which it will be provided, must be satisfactory to the Vice-President and Provost or designate and shall be reflected in formal confidentiality agreements which provide that the information is adequately safeguarded and used only for the purpose for which it is provided.
- ii. Names and addresses of students will also be provided to Student Societies for the purpose of distributing materials when all of the following conditions are met:

- A. The name and address information is not released to a third party (except as noted below).
 - B. The name and address information is not used for commercial purposes.
 - C. The organization proposes to distribute materials which, in the opinion of the University Registrar, the University would be willing to distribute if reimbursed by the organization. The materials to be distributed support or are related to the University or University activities and are not advertisements for non-University organizations.
 - D. The campus organization enters into a confidentiality agreement which includes agreeing to use the name and address information only for the specific purpose for which it was provided. In the event that the distribution of the materials is being conducted by a third party (e.g., a mailing house) on behalf of the student society, the confidentiality agreement shall be between the University and the third party.
- iii. Notwithstanding other provisions of these guidelines, for the sole purpose of administering drug, health and dental insurance plans organized those Student Societies which are also Representative Student Committees as designated by the Governing Council, a list of the names, addresses, student numbers, faculty codes, birth dates, and gender of students charged the compulsory non-academic incidental fee for the relevant plan may be provided to the insurance company designated by the student organization. The information included in the lists, and the terms and conditions under which they will be provided, must be satisfactory to the Vice-President and Provost or designate and shall be reflected in formal agreements which ensure that the information is adequately safeguarded and used only for the purpose for which it is provided. If it is demonstrated, to the satisfaction of the Vice-President and Provost or designate that the information is required for the administration of the plan and there is no practicable means for the information to be provided directly by the University to the insurance company, a similar list may be provided directly to the student organization under the same terms and conditions.
- (e) Access by others
- i. The public conferral of degrees, diplomas and certificates is a core activity of the University and the information on the face of these records, together with the dates on which they were conferred, is personal information that is maintained for the purpose of creating a record that is available to the general public.
 - ii. Any other information contained in the official student academic record, shall be released to other persons and agencies only with the student's prior express written consent, or on the presentation of a court order, or in accordance with the requirements of professional licensing or certification bodies, of the Ministry of Training, Colleges and Universities for an annual enrolment audit, or otherwise as required by law. Requests granted to any persons or agencies outside the University for access to a student's academic record shall be kept on file within a division. The release of the information concerning alumni and former students contained in the portions of the academic record as defined in Section 2(a) shall also be governed by the above provisions.
 - iii. In the event that a student, alumnus or alumna or a former student is deceased, his or her personal representative shall be granted access to information in the individual's official student academic record to the extent that such access relates to the administration of the estate of the deceased.
- (f) Refusal of access
- The University reserves the right to withhold the official transcripts, diplomas and/or degree certifications of students, alumni and former students who have outstanding debts or obligations to the University in accordance with the Policy on Academic Sanctions for Students Who Have Outstanding University Obligations.
- 4. Custody and retention of official student academic records**
- (a) Academic records of students are normally under the custodial responsibility of the academic division. Every academic division maintaining official student academic records shall draw up plans for the eventual disposition of their records in consultation with the University Archivist and in accordance with an approved records schedule which is in compliance with this policy.
 - (b) Those portions of the official student academic record as defined in Section 1(a) shall be maintained permanently. Each academic division's records schedule shall specify the document, form or medium in which these records will be maintained.
 - (c) Official student academic records preserved in the University Archives because of their archival

value shall become open to researchers authorized by the University thirty years after a student has died.

- (d) Academic records shall be kept at all times under appropriate security.

13.2 Discipline Codes

Code of Behaviour on Academic Matters

The Governing Council of the University of Toronto has approved a *Code of Behaviour* that 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, the full text of the Code is available from the Faculty Office and the Office of the Registrar.

B. ACADEMIC OFFENCES 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.

B.I.

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 by 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 (for a more detailed account of plagiarism, see Appendix "A" in full text of the Code);
 - (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 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 reference to any criterion that is not academically justified;
- (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 knowingly 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 that it was.

B.II. Parties to Offences

1. (a) Every member is a party to an offence under this Code who knowingly:
 - i. actually commits it;
 - ii. does or omits to do anything for the purpose of aiding or assisting another member to commit the offence;
 - iii. does or omits to do anything for the purpose of aiding or assisting any other person who, if that person were a member, would have committed the offence;
 - iv. abets, counsels, procures, or conspires with another member to commit or be a party to an offence; or
 - v. abets, counsels, procures, or conspires with any other person who, if that person were a member, would have committed or have been a party 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. PROCEDURES IN CASES INVOLVING STUDENTS

At both divisional level and the level of the University Tribunal, the procedures for handling charges of academic offences involving students reflect the gravity with which the University views such offences. At the same time, these procedures and those that ensure students the right of appeal represent the University's commitment to fairness and the cause of justice.

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 U of T Mississauga campuses, the college is deemed to be the faculty.

Not proceedings of Tribunal

- 1 No hearing within the meaning of Section 2 of the *Statutory Powers Procedure 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.

Instructor's duties

- 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.

Instructor's report to the department chair

- 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)1.)

Dean's or Chair's meeting with student

- 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.

Dean's warning; admissions used at a hearing

- 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.

No further action

- 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.

Imposition of sanction

- 8 If the student admits the alleged offence, the dean or the department chair may either impose the sanction(s) 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.

Student may refer matter

- 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.

Referral of matter to Tribunal

- 10 If the student does not admit the alleged offence, the dean may, after consultation with the instructor and the department chair, request 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.

Decanal procedures at trial

- 11 Normally, decanal procedures will not be examined in a hearing before the Tribunal. A failure to carry out the procedures referred to in this section, or any defect or irregularity in such procedures, shall not invalidate any subsequent proceedings of or before the Tribunal, unless the chair of the hearing considers that such failure, defect or irregularity resulted in a substantial wrong, detriment or prejudice to the accused. The chair will determine at the opening of the hearing whether there is going to be any objection to defect, failure or irregularity.

Student's standing pending disposition

- 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, until the final disposition of the accusation, to indicate that the standing in a course and/or the student's 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.**

Recording cases; referral to records; reporting cases; advice on cases

- 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.

Analogy to faculty member

- 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.

Analogy to procedures

- 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, 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 *Department Chair's duties*

- 1 In an assignment worth ten 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.

Sanctions listed

- 2 One or more of the following sanctions may be imposed by the dean where a student admits to the commission of an alleged 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.

Recording on academic transcript

- 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.

Provost's guidelines

- 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" in full text of the Code. (See "Code of Behaviour on Academic Matters," available in the Office of the Registrar.)

13.3 Summary of Code of Student Conduct

Non-academic offences are defined in the University's *Code of Student Conduct* (2003), the full text of which may be obtained from the Office of the Registrar. Below are extracts from 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:

- 1. has not been dealt with as failure to meet standards of professional conduct as required by a college, faculty or school; and
- 2. 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*; (Ontario Human Rights Code) 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
- 3. 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.
- 4. 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.

1. 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)

- (a) 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's premises, knowing that their conduct will cause such fear, or recklessly as to whether their conduct causes such fear.

- (b) The conduct mentioned in subsection (i) consists of:
 - i. repeatedly following from place to place the other person or anyone known to them;
 - ii. repeatedly and persistently communicating with, either directly or indirectly, the other person or anyone known to them;
 - iii. 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
 - iv. 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. Silent or symbolic protest is not to be considered disruption under this Code. Noise that obstructs the conduct of a meeting or forcible blocking of access to an activity constitutes disruption.*

3. Offences Involving Property

- (a) No person shall knowingly take, destroy or damage premises of the University of Toronto.

- (b) No person shall knowingly take, destroy or damage any physical property that is not her or his own.
- (c) No person shall knowingly destroy or damage information or intellectual property belonging to the University of Toronto or to any of its members.
- (d) No person, in any manner whatsoever, shall knowingly deface the inside or outside of any building of the University of Toronto.
- (e) No person, knowing the effects or property to have been appropriated without authorization, shall possess effects or property of the University of Toronto.
- (f) No person, knowing the effects or property to have been appropriated without authorization, shall possess any property that is not her or his own.
- (g) No person shall knowingly create a condition that unnecessarily endangers or threatens destruction of the property of the University of Toronto or of any of its members.

4. Unauthorized Entry or Presence

No person shall, contrary to the expressed instruction of a person or persons authorized to give such instruction, or with intent to damage or destroy the premises of the University of Toronto or damage, destroy or steal any property on the premises of the University of Toronto that is not her or his own, or without just cause knowingly enter or remain in or on any such premises.

5. Unauthorized Use of University Facilities, Equipment or Services

- (a) No person shall knowingly use any facility, equipment or service of the University of Toronto contrary to the expressed instruction of a person or persons authorized to give such instruction, or without just cause.
- (b) No person shall knowingly gain access to or use any University computing or internal or external communications facility to which legitimate authorization has not been granted. No person shall use any such facility for any commercial, disruptive or unauthorized purpose. *Appropriate uses for University connections to external networks are described, for example, in the policy document "Appropriate Use Policy for the Net Network."*
- (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 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 guilty of 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.

Note: The President of the University or another senior officer designated by the President has been given the authority to grant such permission for the premises of the University of Toronto under the authority of the Governing Council of the University. The President has designated the **Vice-President, Business Affairs, who is the Chief Administrative Officer of the University** to exercise this authority. Various officers of institutions federated with the University of Toronto have authority to grant such permission with respect to the premises of the federated institutions.

C. PROCEDURES**1. 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 student, staff or faculty members 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 of misconduct.
- (d) Pursuant to the provisions of Section D., interim conditions may be imposed by the head of the division.
- (e) For the 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 the Governing Council.
- (f) Whenever possible and appropriate, reason 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 the 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 a Hearing Officer. The case will be presented by the Investigating Officer, who may be assisted and represented by legal counsel. If the right to a hearing is waived, or after a hearing, the Hearing Officer will rule on whether the student or students have committed the offence alleged and may impose one or more sanctions as listed below. The accused student or students

may be assisted and represented by another person, who may be legal counsel.

- (f) Appeals against decisions of bodies acting under authority from the council of a division to hear cases arising out of residence codes of behaviour may be made to the Hearing Officer of the division, where provision therefor has been made by the council of the 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 heads 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 a 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 must 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 guilty of committing 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 for a period of 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 any divisions for a period of up to one year.
- 7 Recommendation for expulsion from the University.

13.4 University Grading Practices Policy

The purpose of the University Grading Practices Policy is to ensure that:

1. grading practices throughout the University reflect appropriate academic standards;
2. the evaluation of student performance is made in a fair and objective manner against these academic standards;
3. 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 scale used in a division 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 references 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:

1. the refined letter grade scale: A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F;
2. the numerical scale of marks, consisting of all integers from 0 - 100; and/or
3. 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.

I.5 A table of correspondence and a translation table are defined in the Appendix, (See Grading Scheme (Page 30) of this Calendar) for each of the letter grade scales referred to in 1.3(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.6 Only one *letter* scale, as referred to in 1.3(a) may be used in a division for assigning grades, but the numerical scale and the H/P/FL and CR/NCR scales, as referred to in 1.3(b) and (c) respectively, may also be used. The grades assigned in a course, however, must all be from the same scale.

I.7 Grades in each course shall be assigned according to the practice of the division offering the course. Grades in each course shall be reported according to the practice of the division administering the program in which the student is registered (the reporting division).

1. Grades shall be reported as assigned when the division offering the course is also the reporting division, when the offering and reporting divisions use the same grade scale, and when the grades are assigned from the H/P/FL or CR/NCR scales.
2. In all other cases, grades shall be reported as converted to the scale used by the reporting division, and the conversion shall be made according to the tables of correspondence and translation tables defined in the Appendix. (See Grading Scheme (Page 30) of this Calendar.)
3. With the exception of H/P/FL and CR/NCR scales, two different letter grade scales may not be used on the same transcript.
4. A grade not reported in the form originally assigned by the offering division must on request be made available to the student in that form by the reporting division.

I.8 All non-grade symbols used in reporting course results must correspond to the University-wide standard. A list of the currently approved symbols and their meanings is given in the Appendix A.2. (See Grading Scheme (Page 30) of this Calendar.)

I.9 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 issued by every division of the University must indicate the relationship between the divisional grade scale, the grade meanings, the basic letter grade scale, whether refined or unrefined by plus and minus signs, and the scale or numerical marks as well as the translation table. A list of non-grade symbols and meanings shall also be included in 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.

II.1 Divisional Review Committee

In each division, a committee chaired by the divisional head or a 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:

1. administer the implementation of the University Grading Practices Policy at the divisional level and oversee the general consistency of grading procedures with the division;
2. formulate, approve, and administer the University's specific regulations concerning the grade scale or scales to be used, the assignment of non-grade symbols for course work, classroom procedures and approved methods of evaluation;
3. 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.*

II.2 Classroom Procedures

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.

1. 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.

2. After the methods of evaluation have been made 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.
3. 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.
4. 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.
5. Commentary on assessed term work and time for discussion of it shall be made available to students.
6. 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 withdrawal from the course without academic penalty.
7. Grades shall be recommended by the instructor in reference to the approved grade 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).

II.3 Procedures in the Event of Disruptions

Principles

The following principles shall apply in the event of disruption of the academic program:

1. The academic integrity of academic programs must be honoured; and
2. Students must be treated in a fair manner recognizing their freedom of choice to attend class or not without penalty.

Procedures

1. 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.

2. Individual instructors or multi-section coordinators responsible for courses that are disrupted shall determine, as the disruption proceeds, whether any changes to classroom procedures are needed to complete the course.
3. 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.
4. Where consensus on changes has not been arrived at, or where a vote is not feasible, the instructor, after the 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 any classroom votes. The chair or division head shall then make a decision.
5. 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.
6. 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.
7. Where changes to the classroom procedures are made, students who do not wish to complete the course under the revised procedures may withdraw without academic penalty. This must be done prior to the last day of classes.
8. 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.
9. A student who feels, owing to his or her special circumstances, that changes to the classroom procedure have unreasonably affected his or her grade may appeal the grade following the procedures as set out in each division.

II.4 Assessment in Clinical and Field Settings

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:

1. 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;
2. a mid-way performance evaluation with feedback to the student;
3. written documentation of the final assessment. In addition, for such clinical and field experiences, divisions must ensure that:
4. 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.

II.5 Grade Review and Approval Process

The following principles and procedures shall govern the grade review and approval process.

1. 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.
2. 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 be included.

NOTE:

The Faculty has no intention of requiring course results to conform to a prescribed pattern. Courses with under 30 students, and 400 level courses, are subject to no scrutiny by the Faculty. In the case of larger courses, experience has shown that the results in an average class of reasonable size will normally fall somewhere within the following broad guidelines:

- (a) Grade "A" between 5% and 25%.
 - (b) Grades "A" and "B" combined: not over 75%.
 - (c) Grade "F": not over 20%.
3. 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.
 4. Membership on the Divisional Review Committee may include students but should not include members of the divisional appeals committee(s).
 5. 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 process.
 6. Where a departmental review committee changes course grades, the faculty office shall be so informed. Having done so, the faculty office shall relay this information, upon request, to the students or the instructor with a description as to the reason for the change and the methodology used.
 7. 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.
 8. 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

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.

II.6 Student Access to Examination Papers

1. 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.
2. 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.
3. 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.

II.7 Conflict of Interest

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.

Index

- Academic Honesty, 29
- Academic Information Sources, 34
- Academic Status, 32
- AccessAbility Resource Centre, 12
- Accommodation for Religious Reasons, 27
- Admission 'On Probation', 8
- Admission as a Non-Degree Student, 8
- Admission as Non-Degree Visiting Students, 9
- Admission from Secondary Schools Outside Ontario, 7
- Admission Information, 7
- Admission of External Students to a Second Bachelor's Degree Program, 9
- Admission of Senior Citizens, 9
- Admission of U of T Mississauga Students to a 2nd Bachelor's Degree Program, 8
- Admission Requirements, 7
- Admission Requirements for Applicants from Ontario Secondary Schools, 7
- Admission Restricted to Part-time, 8
- Admission with Transfer Credit: College or University, 7
- Advising and Counselling: Academic, Personal, Financial, 13
- Alphabetical Listing of Programs and Courses, 40
- Anthropology (HBA, HBSc) Program, 40
- Application Forms and Information, 9
- Art and Art History (HBA) Program, 60
- Art History (HBA) Program, 49
- Astronomical Sciences (HBSc) Program, 67
- Astronomy (HBSc) Program, 68

- Bachelor of Business Administration – BBA – Degree Requirements, 37
- Bachelor of Commerce – BCom – Degree Requirements, 37
- Bachelor of Education - BEd - Degree Requirements, 38
- Behaviour, Genetics, and Neurobiology (HBSc) Program, 69
- Bioinformatics (HBSc) Program, 71
- Biological Chemistry (HBSc) Program, 72
- Biology (HBSc) Program, 72
- Biomedical Communications (HBSc) Program, 84
- Biomedical Physics (HBSc) Program, 86
- Biotechnology (HBSc) Program, 87

- Campus Police, 13
- Canadian Studies (HBA) Program, 88
- Career Centre, 13
- Central Student Services, 17
- Chemistry (HBSc) Program, 90
- Choosing Courses, 21
- Cinema Studies (HBA) Program, 97
- Classical Civilization (HBA) Program, 99
- Codes and Policies, 328
- Commerce (BCom, HBA) Program, 103
- Communication, Culture and Info. Technology (HBA) Program, 108
- Comparative Physiology (HBSc) Program, 122
- Computer Science (HBSc) Program, 122
- Concurrent Teacher Education (HBA, HBSc and BEd) Program, 130
- Conference and Event Services, 14
- Course Descriptions, 326
- Course Key, 326
- Course Loads and Overloads, 22
- Course Regulations, 20
- Courses at other U of T divisions, 20
- Courses at Other Universities, 22
- Credit/No Credit, 31
- Criminology and Socio-Legal Studies (HBA) Program, 134

- Declaration of Absence at U of T Mississauga for any reason, 26
- Deferral of Admission, 20
- Deferred Examinations, 28
- Definition of a Course, 20
- Degree Requirements, 34
- Degrees Offered, 34
- Department of Physical Education, Athletics and Recreation, 14
- Departmental Appeals, 32
- Departmental Structure and Programs, 322
- Diaspora and Transnational Studies (HBA) Program, 135
- Discipline Codes, 331
- Distribution Requirements, 35
- Dropping Courses, 19

- Earth Science (HBSc) Program, 137
- Ecology and Evolution (HBSc) Program, 141
- Economics (HBA, BCom) Program, 141
- Economics and Political Science (HBA) Program, 150
- English (HBA) Program, 151
- English Facility Requirement, 9
- Enrolling in Courses in other U of T Divisions, 22
- Environment and Human Society (HBA) Program, 160
- Environmental Analysis and Monitoring (HBSc) Program, 160
- Environmental Management (HBA) Program, 160
- Environmental Science (HBSc) Program, 163
- Erindale Courses Program, 169
- European Studies (HBA) Program, 170
- Examination Conflicts, 27
- Examination Re-reads, 28
- Examinations, 27
- Exceptionality in Human Learning (HBSc) Program, 171

Exclusions, Prerequisites, Corequisites, Recommended Preparation, Extra Courses, Supplemental Courses, 21

Fees, 10

Financial Economics (HBSc) Program, 173

Forensic Science (HBSc) Program, 174

French (HBA) Program, 181

French and Italian (HBA) Program, 190

General Regulations, 17

Geocomputational Science (HBSc) Program, 191

Geographical Information Systems (HBSc) Program, 192

Geography (HBA, HBSc) Program, 194

Geology (HBSc) Program, 204

Government Financial Aid (OSAP), 11

Grade Point Average, 31

Grades, 30

Grades Review Procedure, 32

Grading Scheme, 30

Graduation, 34

Grants, 12

Guidelines Concerning Access to Student Academic Records, 328

Health and Counselling Centre, 15

Health Sciences Communication Program, 205

History (HBA) Program, 206

History and Political Science (HBA) Program, 218

History of Religions (HBA) Program, 219

Honours Bachelor of Arts – HBA – Degree Requirements, 36

Honours Bachelor of Science – HBSc – Degree Requirements, 35

Human Communication and Technology Program, 226

Human Resources and Industrial Relations (HBA) Program, 226

Important Information, 4

Ineligible Enrolment in Courses, 20

International Affairs (HBA) Program, 227

International and Canadian Student Exchanges, 23

International Centre (IC), 12

International Summer Abroad Program, 23

Italian (HBA) Program, 228

Language Citation Program, 24

Language Studies Program, 235

Language Teaching and Learning: French and Italian (HBA) Program, 240

Letters of Permission, 22

Libraries, 15

Linguistics (HBA) Program, 241

Logic (HBA) Program, 245

Management (HBA, BBA) Program, 246

Mathematics (HBSc) Program, 255

Mature Student Admission, 9

Molecular Biology (HBSc) Program, 261

Office of the University Ombudsperson, 16

Officers: U of T Mississauga and University of Toronto, 328

Outside Centre Examinations, 28

Paleontology (HBSc) Program, 261

Payment of Fees, 10

Petitions, Appeals, Deferrals, 32

Philosophy (HBA) Program, 261

Philosophy of Science (HBA) Program, 268

Physics (HBSc) Program, 269

Political Science (HBA) Program, 274

Professional Experience Year, 23

Professional Writing and Communication (HBA) Program, 280

Program: Definition, Enrolment, Types, Requirements, 38

Programs, 38

Psychology (HBSc) Program, 284

Publications (Electronic and Paper), 327

Quality Service to Students (QSS), 16

Reactivation of Student Record, 19

Registration, 18

Registration Regulations, 18

Research Opportunity Program (299Y, 399Y and 499Y), 327

Responsibilities of Students, 17

Robert Gillespie Academic Skills Centre, 12

ROSI (or Repository of Student Information) – Online enrolment services, 20

Rules of Conduct for Examinations, 27

Scholarships and Awards, 11

Science Education (HBSc) Program, 294

Second Degree Requirements, 34

Self-Designed Program of Study, 39

Services for Student Success, 12

Sessional Dates, 6

Sociology (HBA) Program, 295

Statement of Results, 29

Statistics, Applied (HBSc) Program, 304

Student Accounts and Scholarships, 10

Student Affairs and Services, 14

Student Housing and Residence Life, 16

Student Organizations, 12

Studying Elsewhere Without Prior Letters of Permission, 23

Summary of Code of Student Conduct, 334

Symbols and Terms Used in Program Descriptions, 39

Symbols Used in Course Descriptions, 327

Term Tests, 26

Term Work Regulations, 25

The Office of the Registrar, 16

Theatre, Drama and Performance Studies (HBA) Program, 309

Transcripts, 24

Transferring from Another U of T Division or Faculty, 10

U of T Mississauga Final Examinations, 27

University Grading Practices Policy, 337

Visual Culture and Communication (HBA) Program, 314

Withdrawal from a Session, 20

Women and Gender Studies (HBA) Program, 318

Women's Centre, 17