The School of Graduate Studies Calendar is available online in PDF and HTML formats. It is also available in print (limited copies). Every effort has been made to ensure the compatibility of the online and print versions.

In the case of any discrepancy, the online version shall apply.

Any post-publication corrections and/or updates will be posted at www.sgs.utoronto.ca/calendar/2011-12. Students are strongly advised to consult the web page regularly to keep informed of changes.

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Graduate Studies at the University of Toronto

The University of Toronto began in 1827 as King’s College at York, York being the name of the city of Toronto at the time. Although master’s degrees were being awarded by the middle of the nineteenth century and the doctorate was established in the 1890s, the School of Graduate Studies did not become a distinct academic division within the University of Toronto until 1922. In 1965 the School was reorganized and expanded. Today it comprises more than 80 graduate units (departments, centres, and institutes), offering more than 150 graduate programs.

Most graduate units, while large enough to have a diversity of graduate courses, are small enough to allow students to have a sense of belonging to a recognized community of scholars, colleagues, and associates. The goal of graduate studies at the University of Toronto is to provide students with the best material and human resources to learn the methods and standards of research necessary to work professionally at the frontiers of knowledge. Research is central to graduate studies, particularly at the doctoral level. Research-oriented training conveys the importance of keeping pace with a subject, the knowledge of which is always changing. It fosters intellectual curiosity and a creative response to problems. It encourages students to communicate original discoveries effectively.

In the process of education, the graduate student comes to grips with the phenomenon of emerging knowledge. The process enriches the individual as well as the community participating in the exercise. The training and experience is valuable for all areas of work, whether one is teaching in a university; conducting research in government, industry, or private enterprise; or pursuing a professional career.

Research-oriented graduate training provides the means to embark on a lifelong voyage of intellectual discovery, an opportunity and challenge that gives graduate studies pre-eminence in formal education.

Mission Statement

The mission of the School of Graduate Studies is to promote university-wide excellence in graduate education and research and to ensure consistency and high standards across the divisions. Sharing responsibility for graduate studies with graduate units and divisions, and operating through a system of collegial governance, consultation, and decanal leadership, SGS defines and administers university-wide regulations for graduate education.

SGS also provides expertise, advice, and information; reviews the design and delivery of programs; develops performance standards; supports diversity, equity, fairness, and ethical conduct in graduate education; organizes services and financial assistance to graduate students; encourages a close and positive relationship between research and graduate instruction; and represents the cause of graduate education at the University of Toronto in the wider academic and general community.
I am delighted to welcome you to the many graduate communities of the University of Toronto. We are proud of our accomplishments as a centre for graduate education that integrates advanced scholarship and research into every degree program. Please use this publication to learn more about the excellent programs we offer.

Here at the largest graduate school in Canada, more than 14,600 graduate students are studying in an extraordinary range of scholarly fields. The enormous range of our programs makes it highly likely that we offer the focus and expertise you need to fulfill your aspirations for graduate study.

We welcome graduate applicants from around the world, inviting those who are successful to participate in advanced study that links research and scholarship with graduate training. We offer you a scholarly community of superb quality, one of the best academic library systems in the world, and a lively intellectual environment within a remarkably cosmopolitan city.

You can investigate graduate studies at the University of Toronto more closely through the website, www.gradschool.utoronto.ca. That site is a gateway to the fields of study that you may choose.

With my best wishes,

Brian Corman
Dean of Graduate Studies and Vice-Provost, Graduate Education
About this Calendar

Effective Academic Period
The 2011/2012 School of Graduate Studies Calendar is effective for the academic period September 1, 2011 to August 31, 2012. References in the calendar to "current academic year" refer to this period.

Available Calendar Formats
The SGS Calendar is edited annually, and is available in both online and printed editions. Every effort has been made to ensure the compatibility of both versions. In the case of any discrepancy, the online version shall apply. Any post-publication corrections and/or updates to the print edition of this calendar will be posted as amendments on www.sgs.utoronto.ca/calendar/2011-2012. Students are strongly advised to consult the web page regularly to keep informed of changes.

While graduate administrators are available to provide advice and guidance, it must be clearly understood that the ultimate responsibility rests with the student for completeness and correctness of program requirements and observance of regulations and deadlines. Students are responsible for seeking guidance from a responsible officer if they are in any doubt; misunderstanding or advice received from another student will not be accepted as cause for dispensation from any regulation, deadline, program, or degree requirement.

The SGS Calendar is posted on the SGS website in August. Published copies are printed by August and may be purchased using the online order form on the SGS website or in person from the SGS office at 63 St. George Street.

The SGS Calendar describes the broad range of graduate study opportunities available at the University of Toronto. It also contains policies and procedures related to graduate studies. The calendar is divided into six sections.

Sections
General Regulations outlines admission, registration, enrolment, grading, and graduation policies and procedures. Selected policies and codes established by the University of Toronto are also featured in this section with links to the full policy, accessible online.

Degree Regulations discusses general admission and degree requirements for graduate degree programs.

More details about each program are outlined in Degree and Diploma Programs by Graduate Unit.

Fees and Financial Support
Fees schedules, types of fees, and fees for graduate student categories are explained.

Financial Support describes awards, assistantships, grants, and loans available to graduate students.

Services for Students outlines university services available to enhance graduate life at U of T. Look for student housing information in this section.

Graduate Programs. The largest component of the calendar features a comprehensive list of the graduate units that offer degree programs. The term “graduate unit” refers to a department, centre, or institute.

The section is divided into three categories:
1. degree and diploma programs by graduate unit
2. collaborative programs
3. joint programs

Each graduate unit entry contains valuable information about the programs it offers together with admission and program requirements and course lists. Faculty who are affiliated with the graduate unit are listed by appointment category: full member, member emeritus, and associate member.

For additional details about a graduate program, visit the unit’s website and/or consult the graduate unit’s handbook.
Important Notices

Changes in Programs of Study and/or Courses

The programs of study that the SGS Calendar lists and describes are available for the academic year September 1, 2011, to August 31, 2012. They may not necessarily be available in later years. If the University of Toronto or the School of Graduate Studies must change the content of programs of study or withdraw them, all reasonable possible advance notice and alternative instruction will be given. However, the university will not be liable for any loss, damages, or other expenses that such changes might cause.

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

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 and the university will assume that he or she has done so. The rules and regulations of SGS are listed in this calendar. In applying to SGS, the student assumes certain responsibilities to the university and the school and, if admitted and registered, shall be subject to all rules, regulations, and policies cited in the calendar, as amended from time to time, with the exception of program requirements. Each student is required to satisfy the program requirements found in the SGS Calendar (see Graduate Programs) of the academic year in which the student first registered in the graduate program.

All university policies can be found at www.governigcouncil.utoronto.ca/policies.htm. Those 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

For more information about students’ rights and responsibilities visit http://life.utoronto.ca/get-help/rights-responsibilities.htm.

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

Person ID (Student Number)

Each student at the university is assigned a unique identification number. The number is confidential. The university strictly controls access to Person ID numbers. The university assumes and expects that students will protect the confidentiality of their Person IDs.

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 104, 12 Queen’s Park Crescent West, Toronto, ON M5S 1A8.

Fees and Other Charges

The university reserves the right to alter the fees and other charges described in the calendar.
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### Fall Session 2011

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<th>Event</th>
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</thead>
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<tr>
<td>M August 1</td>
<td>Civic holiday</td>
</tr>
<tr>
<td>M August 8</td>
<td>Registration for fall session begins</td>
</tr>
<tr>
<td>August</td>
<td>Undergraduate course enrolment begins†</td>
</tr>
<tr>
<td>F August 26</td>
<td>Last date for payment of tuition fees to meet registration deadline</td>
</tr>
<tr>
<td>M September 5</td>
<td>Labour Day</td>
</tr>
<tr>
<td>M September 12</td>
<td>Most formal graduate courses and seminars begin in the week of September 12†</td>
</tr>
<tr>
<td>Th September 15</td>
<td>Final date to submit final doctoral theses to SGS to avoid fee charges for 2011–2012</td>
</tr>
<tr>
<td>F September 16</td>
<td>Coursework must be completed and grades submitted for summer session courses and extended courses†</td>
</tr>
<tr>
<td>F September 16</td>
<td>Registration for fall session ends; after this date a late registration fee will be assessed</td>
</tr>
<tr>
<td>W September 21</td>
<td>Summer session grades available for viewing by students on the Student Web Service</td>
</tr>
<tr>
<td>M September 26</td>
<td>Final date to add full-year and fall session courses</td>
</tr>
<tr>
<td>F September 30</td>
<td>Final date for receipt of degree recommendations and submission of any required theses for master's degrees for fall convocation without fees being charged for the fall session†</td>
</tr>
<tr>
<td>F September 30</td>
<td>Final date to submit final doctoral thesis for fall convocation</td>
</tr>
<tr>
<td>M October 10</td>
<td>Thanksgiving Day</td>
</tr>
<tr>
<td>M October 31</td>
<td>Final date to drop fall session full- or half courses without academic penalty</td>
</tr>
<tr>
<td>November</td>
<td>Winter convocation information and dates are posted at <a href="http://www.convocation.utoronto.ca">www.convocation.utoronto.ca</a></td>
</tr>
<tr>
<td>W December 21</td>
<td>Winter break begins (for last day of classes before winter break, consult graduate units concerned)</td>
</tr>
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### Winter Session 2012

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>M January 9</td>
<td>Most formal graduate courses and seminars begin in the week of January 9†</td>
</tr>
<tr>
<td>F January 13</td>
<td>Final date for registration of students beginning program in winter session; after this date, a late registration fee will be assessed</td>
</tr>
<tr>
<td>F January 13</td>
<td>Coursework must be completed and grades submitted for fall session courses†</td>
</tr>
<tr>
<td>M January 16</td>
<td>Final date to submit doctoral theses without fee payment for winter session</td>
</tr>
<tr>
<td>W January 18</td>
<td>Fall session grades available for viewing by students on the Student Web Service</td>
</tr>
<tr>
<td>M January 23</td>
<td>Final date to add winter session courses†</td>
</tr>
<tr>
<td>F January 27</td>
<td>Final date for receipt of degree recommendations and submission of any required theses for March or June graduation for master's students without fees being charged for the winter session†</td>
</tr>
<tr>
<td>F January 27</td>
<td>Final date for all students to request that their degrees be conferred in absentia in March</td>
</tr>
<tr>
<td>F January 27</td>
<td>Fall dual registrants must be recommended for the master's degree by this date to maintain their PhD registration†</td>
</tr>
<tr>
<td>M February 20</td>
<td>Family Day</td>
</tr>
<tr>
<td>M February 27</td>
<td>Final date to drop full-year and winter session courses without academic penalty†</td>
</tr>
</tbody>
</table>
March graduation In absentia Information is posted at www.convocation.utoronto.ca

April For last day of winter classes, consult unit concerned

**Summer Session 2012**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>F April 6</td>
<td>Good Friday</td>
</tr>
<tr>
<td>F April 20</td>
<td>For students obtaining degrees at June convocation, coursework must be completed and grades submitted for full-year and winter session courses</td>
</tr>
<tr>
<td>F April 20</td>
<td>Final date for receipt of degree recommendations and submission of any required theses for master's degrees for June convocation(1)</td>
</tr>
<tr>
<td>F April 20</td>
<td>Final date for submission of final doctoral thesis for students whose degrees are to be conferred at the June convocation(1)</td>
</tr>
<tr>
<td>F April 20</td>
<td>Final date for degree recommendations of winter dual registrants for the master's degree to maintain their PhD registration(3)</td>
</tr>
</tbody>
</table>

**May**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>F May 4</td>
<td>Final date for registration for May session</td>
</tr>
<tr>
<td>F May 11</td>
<td>Final date to enrol in May–June or May–August session courses</td>
</tr>
<tr>
<td>F May 11</td>
<td>Coursework must be completed and grades submitted for full-year and winter session courses (except for extended courses)(4)</td>
</tr>
<tr>
<td>W May 16</td>
<td>Winter session grades available for viewing by students on the Student Web Service</td>
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**June**

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>F June 1</td>
<td>Final date to drop May–June F section courses without academic penalty(6)</td>
</tr>
<tr>
<td>F June 22</td>
<td>Final date to enrol in July–August courses(8)</td>
</tr>
<tr>
<td>F June 22</td>
<td>Final date to drop May–August session Y section courses without academic penalty(8)</td>
</tr>
<tr>
<td>M July 2</td>
<td>Canada Day holiday</td>
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<tr>
<td>F July 20</td>
<td>Final date to drop July–August S section courses without academic penalty(8)</td>
</tr>
<tr>
<td>F July 20</td>
<td>Coursework must be completed and grades submitted for May–June F section courses(6)</td>
</tr>
<tr>
<td>W July 25</td>
<td>Grades for May–June F section courses available for viewing by students on the Student Web Service</td>
</tr>
</tbody>
</table>

(1) Graduate students may only enrol in undergraduate courses with the approval of their supervisor or graduate unit. Students are responsible for meeting the deadlines and requirements of the undergraduate course as presented in class and in the undergraduate division's calendar. Graduate students will be graded under the graduate grading scale. Students should consult the undergraduate Faculty of Arts & Science Calendar for enrolment and dates.

(2) The precise dates of commencement of courses are determined by the graduate units; students are urged to contact the relevant graduate units for information. University of Toronto policy states that the first day of classes in the fall session in all teaching divisions should not be scheduled on the first and second days of Rosh Hashanah (from 1½ hours before sunset on Wednesday, September 28 to about 1½ hours after sunset on Friday, September 30) or on Yom Kippur (from about 1½ hours before sunset on Friday, October 7 to about 1½ hours after sunset on Saturday, October 8).

(3) A final thesis is the corrected, approved version of thesis which is submitted to SGS following the final oral examination.

(4) Graduate units may establish earlier deadlines for completion of coursework and may prescribe penalties for late completion of work and for failure to complete work, provided that these penalties are announced at the time the instructor makes known to the class the methods by which student performance shall be evaluated.

(5) For final dates for completing degree requirements, students should consult their own graduate unit.

(6) Graduate units may establish earlier deadlines to add/drop courses. Please note that the last date to cancel a course or registration with no academic penalty is not the same as the last date to be eligible for a refund.

(7) Students starting their program in the summer and OISE students are required to register by this date by paying the minimum tuition amount stated in their invoice.
Divisional Structure

Graduate units (departments, centres, and institutes) are allocated into four divisions. Collaborative (interdisciplinary) programs are designated as CP; joint programs are designated as (JP).

**Division I: Humanities**
- Ancient and Medieval Philosophy (CP)
- Ancient Greek and Roman History (CP)
- Art
- Book History and Print Culture (CP)
- Cinema Studies
- Classics
- Comparative Literature
- Diaspora and Transnational Studies (CP)
- Drama
- East Asian Studies
- Editing Medieval Texts (CP)
- English
- French Language and Literature
- Germanic Languages and Literatures
- History
- History and Philosophy of Science and Technology
- Jewish Studies (CP)
- Italian Studies
- Linguistics
- Medieval Studies
- Museum Studies
- Music
- Near and Middle Eastern Civilizations
- Philosophy
- Religion
- Slavic Languages and Literatures
- South Asian Studies (CP)
- Spanish
- Women and Gender Studies
- Women and Gender Studies (CP)

**Division II: Social Sciences**
- Adult Education and Counselling Psychology
- Anthropology
- Architecture, Landscape, and Design
- Asia-Pacific Studies (CP)
- Community Development (CP)
- Comparative, International and Development Education (CP)
- Criminology and Sociolegal Studies
- Curriculum, Teaching and Learning
- Dynamics of Global Change (CP)
- Economics
- Educational Policy (CP)
- Ethnic and Pluralism Studies (CP)
- European, Russian, and Eurasian Studies
- Financial Economics (JP)
- Geography
- Global Affairs
- Human Development and Applied Psychology
- Industrial Relations and Human Resources
- Information
- Law
- Management
- Management and Economics (CP)
- Political Science
- Professional Graduate Programs Centre (Mississauga)
- Public Policy and Governance
- Sexual Diversity Studies (CP)
- Social Work
- Sociology
- Sociology and Equity Studies in Education
- Theory and Policy Studies in Education
- Workplace Learning and Social Change (CP)
Division III: Physical Sciences

- Advanced Design and Manufacturing (JP)
- Aerospace Science and Engineering
- Astronomy and Astrophysics
- Astrophysics (CP)
- Biomedical Engineering
- Biomedical Engineering (CP)
- Chemical Engineering and Applied Chemistry
- Chemistry
- Civil Engineering
- Computer Science
- Electrical and Computer Engineering
- Environment and Health (CP)
- Environmental Engineering (CP)
- Environmental Studies (CP)
- Geology
- Geology and Physics (CP)
- Knowledge Media Design (CP)
- Materials Science and Engineering
- Mathematical Finance
- Mathematics
- Mechanical and Industrial Engineering
- Optics (CP)
- Physical and Environmental Sciences
- Physics
- Statistics
- Theoretical Astrophysics

Division IV: Life Sciences

- Aboriginal Health (CP)
- Addiction Studies (CP)
- Aging, Palliative and Supportive Care Across the Life Course (CP)
- Biochemistry
- Bioethics (CP)
- Biomedical Toxicology (CP)
- Biomolecular Structure (CP)
- Biotechnology (JP)
- Cardiovascular Sciences (CP)
- Cell and Systems Biology
- Dentistry
- Developmental Biology (CP)
- Doctor of Medicine/Doctor of Philosophy
- Ecology and Evolutionary Biology
- Exercise Sciences
- Forestry
- Genome Biology and Bioinformatics (CP)
- Global Health (CP)
- Health Policy, Management and Evaluation
- Health Services and Policy Research (CP)
- Immunology
- Laboratory Medicine and Pathobiology
- Medical Biophysics
- Medical Science
- Molecular Genetics
- Neuroscience (CP)
- Nursing Science
- Nutritional Sciences
- Occupational Science and Occupational Therapy
- Pharmaceutical Sciences
- Pharmacology and Toxicology
- Physical Therapy
- Physiology
- Psychology
- Public Health Sciences
- Rehabilitation Science
- Resuscitation Sciences (CP)
- Speech-Language Pathology
- Women’s Health (CP)
Graduate Programs at a Glance

This graduate programs chart lists degree programs, collaborative programs, and diploma programs. All programs are offered full-time unless otherwise noted.

<table>
<thead>
<tr>
<th>Graduate Unit</th>
<th>Program</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Education and Counselling Psychology</td>
<td>Adult Education and Community Development</td>
<td>MA(^p), MEd(^p), EdD(^p), PhD(^\text{flex})</td>
</tr>
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<td></td>
<td>Counselling Psychology</td>
<td>MA(^p), MEd(^p), EdD, PhD(^\text{flex})</td>
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<td>Advanced Design and Manufacturing</td>
<td>Advanced Design and Manufacturing</td>
<td>MEng(^\text{DM}^p)</td>
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<td>Aerospace Science and Engineering</td>
<td>MASc, MEng(^p), PhD</td>
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<td>Anthropology</td>
<td>MA(^p), MSc(^p), PhD</td>
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<td>Landscape Architecture</td>
<td>MLA</td>
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<td>Urban Design</td>
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<td>Visual Studies</td>
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<tr>
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</tr>
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<td>Clinical Engineering</td>
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</tr>
<tr>
<td>Cell and Systems Biology</td>
<td>Cell and Systems Biology</td>
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<td>Chemical Engineering and Applied Chemistry</td>
<td>Chemical Engineering and Applied Chemistry</td>
<td>MASc, MEng(^p), PhD</td>
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<td>Cinema Studies</td>
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</table>

Note: All programs are offered full-time, unless otherwise indicated.  
\(p\) Part-time option available in addition to full-time program  
\(p\) Part-time option available in addition to full-time program  
\(\text{flex}\) Flexible-time program option available in addition to full-time program  
\(*\) Admissions suspended
### Graduate Programs at a Glance

<table>
<thead>
<tr>
<th>Graduate Unit</th>
<th>Program</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineering</td>
<td>Civil Engineering</td>
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<td>Classics</td>
<td>Classics</td>
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<td>Comparative Literature</td>
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<td>Computer Science</td>
<td>Applied Computing</td>
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<td>Computer Science</td>
<td>MSc, PhD</td>
</tr>
<tr>
<td>Criminology and Sociolegal Studies</td>
<td>Criminology</td>
<td>MA*, PhD</td>
</tr>
<tr>
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<td>Criminology/Law Combined Program</td>
<td>MA/JD</td>
</tr>
<tr>
<td>Curriculum, Teaching and Learning</td>
<td>Curriculum Studies and Teacher Development</td>
<td>MA*, MEd*, PhD</td>
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<tr>
<td></td>
<td>Elementary and Secondary Education</td>
<td>MT</td>
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<tr>
<td></td>
<td>Second Language Education</td>
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<td></td>
<td></td>
<td>MA/JD</td>
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<td></td>
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<td>Drama</td>
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<td>Ecology and Evolutionary Biology</td>
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<td>Electrical and Computer Engineering</td>
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</tr>
<tr>
<td>European, Russian, Eurasian Studies</td>
<td>European, Russian, and Eurasian Studies</td>
<td>MA</td>
</tr>
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<td></td>
<td>European, Russian, and Eurasian Studies/Law</td>
<td>MA/JD</td>
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<td>MA/JD</td>
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<td>Exercise Sciences</td>
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<td>French Language and Literature</td>
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<td>Geography</td>
<td>Geography</td>
<td>MA*, MSc*, PhD</td>
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<tr>
<td></td>
<td>Planning</td>
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<tr>
<td></td>
<td>Urban Design Studies</td>
<td>MUDS*</td>
</tr>
</tbody>
</table>

**Note:** All programs are offered full-time, unless otherwise indicated

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<th>Graduate Unit</th>
<th>Program</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology</td>
<td>Geology</td>
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<td>Germanic Languages and Literatures</td>
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<td>Health Administration/Social Work Combined Program</td>
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<td>Health Policy, Management and Evaluation</td>
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<td>Management of Innovation</td>
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<td>History and Philosophy of Science and Technology</td>
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<td>Child Study and Education</td>
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<td>Linguistics</td>
<td>Linguistics</td>
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<th>Graduate Unit</th>
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<th>Degrees</th>
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<td>Materials Science and Engineering</td>
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<td>MMF</td>
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<td>Pharmacology and Toxicology</td>
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<td>Philosophy</td>
<td>Philosophy/Law Combined Program</td>
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p- Program only offered part-time
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<th>Program</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Environmental Science</td>
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<td>Physical Therapy</td>
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<td>Political Science</td>
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<td>Professional Graduate Programs Centre</td>
<td>Management and Professional Accounting</td>
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<td>Public Health Sciences</td>
<td>Community Health</td>
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<td>MPP</td>
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<td>Statistics</td>
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<tr>
<td>Theory and Policy Studies in Education</td>
<td>Educational Administration</td>
<td>MA*, MEd*, EdD, PhDflex</td>
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**Note:** All programs are offered full-time, unless otherwise indicated.  
p  Part-time option available in addition to full-time program  
p~  Program only offered part-time  
flex  Flexible-time program option available in addition to full-time program  
*  Admissions suspended
## Collaborative Programs

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## Graduate Programs at a Glance

### Collaborative Programs

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<tr>
<th>Program</th>
<th>Participating Degree Programs</th>
<th>Degrees</th>
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<tbody>
<tr>
<td><strong>Book History and Print Culture</strong></td>
<td>Classics, Comparative Literature, East Asian Studies, English, French Language and Literature, History of Art, History, History and Philosophy of Science and Technology, Information, Italian Studies, Medieval Studies, Museum Studies, Music, Religion</td>
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<td><strong>Cardiovascular Sciences</strong></td>
<td>Biomedical Engineering, Dentistry, Exercise Sciences, Health Policy, Management and Evaluation, Laboratory Medicine and Pathobiology, Medical Biophysics, Medical Science, Nursing Science, Pharmacology, Pharmaceutical Sciences, Physiology, Public Health Sciences, Rehabilitation Science</td>
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<td><strong>Community Development</strong></td>
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## Graduate Programs at a Glance

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<th><strong>Degrees</strong></th>
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<td><strong>Diaspora and Transnational Studies</strong></td>
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Graduate Programs at a Glance

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## Graduate Programs at a Glance

### Collaborative Programs

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## Graduate Programs at a Glance

### Program Participating Degree Programs Degrees

#### Sexual Diversity Studies
- Anthropology
- Cinema Studies
- Classics
- Counselling Psychology
- Criminology
- Curriculum Studies and Teacher Development
- Drama
- East Asian Studies
- Educational Administration
- English
- Exercise Sciences
- Higher Education
- History
- History and Philosophy of Education
- History of Art
- History and Philosophy of Science and Technology
- Information
- Information Studies
- Italian Studies
- Law
- Linguistics
- Medieval Studies
- Museum Studies
- Music
- Near and Middle Eastern Civilizations
- Philosophy
- Political Science
- Psychology
- Public Health Sciences
- Public Policy
- Religion
- Social Work
- Sociology
- Sociology in Education
- Visual Studies
- Women and Gender Studies

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#### South Asian Studies
- Anthropology
- East Asian Studies
- English
- Geography
- History
- Music
- Political Science
- Religion
- Sociology in Education
- Women and Gender Studies

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www.sgs.utoronto.ca/calendar/2011-12
## Diploma Programs

### Graduate Unit

**Information**

**Nursing Science**

### Professional Graduate Programs Centre (Mississauga)

**Social Work**

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<th>Program Name</th>
<th>Diploma</th>
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<td>Concurrent Diploma in Anesthesia Care</td>
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<td>Diploma in Anesthesia Care</td>
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<td>DipNP (PMNP)</td>
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<td>Advanced Diploma in Social Service Administration</td>
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### Note

- All programs are offered full-time, unless otherwise indicated.
- `p` Part-time option available in addition to full-time program.
- `p~` Program only offered part-time.
- `flex` Flexible-time program option available in addition to full-time program.
- `*` Admissions suspended.
General Regulations

Exemptions
The Graduate Education Council of the School of Graduate Studies (SGS) has the power to waive the application of a regulation in individual cases. Such exemptions are granted only in exceptional circumstances and require the favourable recommendation of the graduate unit and of the School of Graduate Studies Admissions and Programs Committee.

1 Organization of the School of Graduate Studies

The School of Graduate Studies (SGS) is responsible for the oversight of all graduate programs in the University of Toronto and for developing and implementing appropriate regulations and operating procedures for admissions, programs of study, and completion of degree requirements.

According to its constitution, the School of Graduate Studies includes a council and is organized into four divisions. Each of the departments, centres, and institutes (referred to generally as graduate units) belongs to one of the divisions.

1.1 The Divisions
Division I – Humanities
Division II – Social Sciences
Division III – Physical Sciences
Division IV – Life Sciences

1.2 Graduate Education Council

The Graduate Education Council is an academic advisory and regulatory body. It exercises powers and duties, subject to the approval of Governing Council, as required, under the provisions of the University of Toronto Act. The Graduate Education Council consists of 35 elected members and numerous ex-officio members. Each division elects five faculty members and three graduate students to the council; a senior representative of the Graduate Students’ Union is a voting member. There are three administrative staff seats. The Graduate Education Council is chaired by the Dean of Graduate Studies and Vice-Provost, Graduate Education.

The Graduate Education Council is primarily responsible for determining policies and regulations affecting the administration and operation of graduate studies, determining general admission and program requirements for all graduate programs, and for advising Governing Council on initiatives in graduate studies. The Graduate Education Council is concerned with the quality of graduate education across the university.

1.3 Graduate Units

Graduate units (including departments, centres, and institutes) offer degree programs and courses and conduct research. A number
of graduate diploma programs are also offered.

Each graduate student is enrolled in one of the graduate departments/cen-
tres/institutes that offer graduate study. Interdisciplinary studies may be undertaken within collaborative programs, but a student must first register in a graduate unit (informally known as “home” unit). The graduate unit is responsible for ensuring that each student is admitted and enrolled in an appropriate program of studies and is responsible for thesis/research supervision in conformity with the policies and procedures of the School of Graduate Studies.

The Coordinator of Graduate Studies is responsible for the administration of graduate affairs within the unit, as delegated by the unit’s chair or director.

1.4 School of Graduate Studies
Centres and Institutes

Historically, a substantial number of centres and institutes with interdisciplinary foci were administered within the School of Graduate Studies. All these administrative units have been relocated to other Faculties, such as Arts and Science, Medicine, or the Ontario Institute for Studies in Education (OISE). Search for centres and institutes on the University of Toronto website using the A–Z index, accessible from the University of Toronto homepage.

1.5 Graduate Programs

Graduate programs are listed alphabetically in the Graduate Programs section of this calendar. They are also described on the University of Toronto website at www.gradschool.utoronto.ca.

1.5.1 Degree Programs

A diverse range of both research-oriented and professional degree programs are offered at both the master’s and doctoral levels.

1.5.2 Collaborative Programs

The School of Graduate Studies currently offers approximately 40 graduate collaborative programs. Collaborative programs emerge from cooperation between two or more graduate units and their graduate programs. The collective experience of the participating graduate programs provides the student with a broader base from which to explore a novel interdisciplinary area or some special development in a particular discipline.

The student must be admitted to, and enrol in, one of the collaborating graduate units (known as a “home” unit) and must fulfill all the requirements of the degree program in the home unit and any additional requirements of the collaborative program. Each collaborative program is designed to allow a focus in the area of specialty. On successful completion of the program, the student receives a transcript notation indicating completion of the collaborative program, in addition to the degree.

1.5.3 Combined Programs

The University of Toronto offers a number of combined programs involving two existing degree programs in different disciplines. The combination may comprise two graduate programs or a graduate and an undergraduate program. In most cases, the combination involves at least one professionally oriented program.

1.5.4 Diploma Programs

A limited number of graduate diploma programs are offered.

1.5.5 Conjoint Programs

The University of Toronto and the Toronto School of Theology offer a limited number of graduate conjoint programs.

1.5.6 Joint Programs

The University of Toronto participates in several joint degree programs involving partnership between two or more graduate units or universities.

1.6 Graduate Faculty

Responsibility for directing all elements of graduate teaching and supervision rests with members of the graduate faculty. Graduate faculty membership is initiated by the chair/director of the graduate unit. With the approval of the School of Graduate Studies, the chair confirms graduate membership to the faculty member. Membership is offered in the following categories:
Full members may act as the sole or major supervisor of a doctoral or master's thesis; as a member of thesis committees; serve as chair or voting member of a final oral examination committee, where such examinations are required by SGS, and perform all associated duties; assume responsibility for the setting and marking of comprehensive (general) examinations; teach, set, and mark examinations for a graduate course; and give such other graduate direction as may be required.

Associate members may be permitted to undertake all the duties of a full member but shall not serve as a sole or major supervisor, whether formally or otherwise, of a doctoral student nor act as the chair of a final doctoral oral examination.

Associate (restricted) members may be permitted to undertake the duties available to an associate member, but only as specified in writing at the time that the graduate membership is offered.

Members emeriti may perform all duties of a full member, but may only take on new supervision with the approval of the graduate chair or director.

2 Student Categories

The university offers admissions to three categories of graduate students:
1. degree or diploma student
2. special (non-degree) student
3. visiting student

2.1 Degree or Diploma Student

A degree or diploma student is registered in a graduate program in the School of Graduate Studies.

A degree student who has completed all requirements for the doctoral degree exclusive of thesis research will be designated as a doctoral candidate in the School of Graduate Studies. See General Regulations, section 8.5.1 Achieving Candidacy: Requirements and Time Limit.

2.1.1 Degree or Diploma Student on Probation

When credentials are from a university where the program of study cannot readily be appraised by the graduate unit, the applicant may be required to register on probation for a period of at least 4 months and not more than 12 months. Applicants must hold a recognized degree with appropriate standing.

After 4 months, but before the end of 12 months, the graduate unit may wish to recommend to the School of Graduate Studies that the student's probationary status be removed. Work completed during the period on probation will be credited towards the degree program. Students whose probationary status is not removed may remain registered on probation for the remainder of the academic year but will not be permitted to continue after that.

2.2 Special (Non-degree) Student

Two categories of special students are described below. Special students are not registered in a program of study which may lead to a degree. All special students must be enrolled in at least one graduate course; some may be enrolled in both undergraduate and graduate courses.

2.2.1 Special Student, Full-Time

Students who are changing disciplines or require preparatory work may be admit-
General Regulations

2.2.2 Special Student, Part-Time

Students wishing to take one or two graduate courses not for degree credit may be admitted as part-time special students.

2.3 Visiting Student

Visiting students are registered under special arrangements in the School of Graduate Studies and are not admitted to a degree.

3 Application for Admission to a Degree Program

3.1 Procedures

1. Formal application for admission should be submitted using the SGS Online Admissions Application (exceptions: MBA, MF, MMPA, and DIFA which have specialized application systems; MScPT, MScOT, and the MHSc in Speech-Language Pathology which participate in a common provincial application for professional rehabilitation medicine programs) accessible through the graduate unit website. Applicants must pay an application fee of $110; some graduate programs have set higher application fees. Payment options: (a) online using a credit card (MasterCard or Visa); (b) by mailing a certified cheque or money order in Canadian funds made payable to the University of Toronto. No decision on the application will be sent to the applicant until this fee has been paid.

2. Applicants must arrange to have one official copy of their complete academic records from all universities attended forwarded as part of their application. Letters of reference are also required. Individual graduate units may require further documentation.

3. Certified English translations of all international documentation written in a language other than English or French must also be submitted.

3.2 Application Deadlines

The graduate unit determines the date by which applicants should submit their applications, supporting documentation, and at least two letters of reference to be assured that they will be considered for a place in the program of their choice and for financial support.

For specific information on application and financial support deadlines, contact the graduate unit offering the program to which you are applying.

Earlier submission is recommended for applications from outside Canada to ensure timely arrival, particularly where special documentation (and/or translation) and proof of English language facility are required.

Most programs commence in September. Some graduate units offer January admission. A few programs commence at other times.
3.3 Financial Assistance

For detailed information about financial assistance, see Fees and Financial Support in this calendar.

3.4 Acceptance

Admission decisions are made by the graduate unit. The official acceptance letter is issued by the School of Graduate Studies. Admissions decisions are final and are not appealable.

Applicants who are offered acceptance pending receipt of final transcripts must submit one official copy of their final transcripts to the graduate unit before final acceptance can be approved. If final transcripts do not indicate that the expected degree has been conferred, official documentation indicating the anticipated date of degree conferral must be submitted before registration.

Normally, students accepted to the School of Graduate Studies must commence their program of study on the date specified in their letter of acceptance. If circumstances prevent a student from starting study on the specified date, the graduate unit may decide that the offer of admission be valid for a period not to exceed 12 months from the original commencement date. In such a case, an official transcript will be required to document any new study completed in the interim. If the period exceeds 12 months from the original date of expected commencement, a new application must be submitted.

If the graduate unit approves, students accepted to begin their programs in September will be permitted to start the preceding summer. Students taking courses during the summer will pay the summer session fees (academic and incidental), which is additional to the fall and winter session fees. Students engaged only in research do not pay summer session fees but must register.

4 Admission Policies and Procedures

The university’s admission policies and procedures are designed so that students entering a graduate program may normally have the capacity and preparation necessary to meet the challenge of the program effectively. The School of Graduate Studies regulations for admission specify minimal requirements only. Many graduate units have additional requirements. Meeting the minimal requirements of the graduate unit and the School of Graduate Studies does not guarantee admission.

The university reserves the right to determine whether credentials of other degree-granting institutions meet the standards for admission to University of Toronto programs. Admissions decisions are final and are not appealable.

4.1 Academic Requirements for Admission

All applicants will be considered on their individual merits for admission to any graduate program at the University of Toronto.

4.1.1 Master’s Programs

An appropriate bachelor’s degree with high academic standing from a recognized university is required. Other qualifications may be specified by the graduate unit. See General Regulations (section 5 Admission Regulations) and Degree Regulations for further details.

4.1.2 Doctor of Philosophy Programs

An appropriate master’s degree or, in some programs, an appropriate bachelor’s degree, with high academic standing from a recognized university is required. See General Regulations (section 5 Admission Regulations) and Degree Regulations for further details.

4.1.3 Other Doctoral Programs

Normally, an appropriate master’s degree with high academic standing from a recognized university is required. See appropriate graduate unit entry for specific details. See General Regulations (section
General Regulations

4.1.4 Diploma Programs

There are several types of graduate diplomas, including master's level and post-master's level. Some diploma programs involve concurrent registration with the degree program. The minimum requirements are as follows:

- A bachelor's degree is an appropriate degree for a master's level or concurrent master's diploma.
- A master's degree is an appropriate degree for a post-master's diploma.

Other qualifications may apply, as specified by a graduate unit.

4.1.5 Special Students

Special students must submit an application for admission for each academic year of study.

Applicants accepted as special student, full-time, must have completed an appropriate bachelor's degree with good academic standing from a recognized university. See General Regulations, section 5 Admission Regulations, for further details.

Applicants accepted as special student, part-time must hold an appropriate bachelor's degree, or its equivalent, from a recognized university. See General Regulations, section 5 Admission Regulations, for further details.

4.1.6 Advanced Standing

Advanced standing refers to academic credit awarded upon admission to a program of study that enables direct entry to an identified higher academic achievement level of the program. Students are eligible for advanced standing if they meet a clearly articulated set of objectives and/or course requirements for an advanced-standing option as defined in the graduate program calendar entry.

Not every program will offer an advanced-standing option. Consult the graduate unit regarding advanced-standing options.

4.1.7 Students Holding Graduate Degrees Registered as Graduate Students

The university may confer upon a person more than one graduate degree having the same title provided the degrees are completed in different fields of study.

4.1.8 Mature Students

Applicants who graduated five or more years ago but without achieving sufficiently high standing for admission to a graduate program may be considered for admission if, since graduation, they have done significant intellectual work and/or made a significant professional contribution that can be considered equivalent to a higher academic standing. This contribution and its impact on the profession must be detailed and documented (e.g., publications, research, professional advancement, development of new skills, responsibility, etc.) and presented as part of the application. Such applicants may be considered for admission if they have achieved qualifications at least equivalent to those stated in the preceding sections and if a graduate unit so recommends.

4.1.9 Eligibility of Members of Teaching and Administrative Staff

Members of teaching or administrative staff of the university or its federated or affiliated colleges who are engaged in graduate instructional and/or graduate administrative activities within the graduate unit offering the graduate program to which they are seeking admission are normally not eligible to be graduate students within that graduate unit at the University of Toronto. Exceptions may be granted by the SGS Admissions and Programs Committee when it is confident that the graduate program is sufficiently remote from the faculty or staff member's usual work that academic impartiality is not compromised.

4.1.10 English-Language Facility

It is essential that all incoming graduate students have a good command of English. Facility in the English language must be demonstrated by all applicants educated outside Canada whose primary language is not English. This is a requirement of admission.
and should be met before application, but must be met before the deadline to register. This requirement may be satisfied using one of the English-language facility tests listed in the Admission Regulations. Test results that are older than two years at the time of application cannot be accepted. In these circumstances, the applicant must retake the English-language facility test.

5 Admission Regulations

All applicants to the School of Graduate Studies must meet the minimum standards required by the school. However, satisfying minimum standards does not guarantee admission, since the number of qualified applicants far exceeds the number of places available. As a result, many well-qualified applicants cannot be accommodated.

5.1 Master's Programs

Minimum requirements:
1. An appropriate bachelor's degree that has appropriate breadth, depth and, where appropriate, an affinity to the graduate program to which the applicant is seeking admission as determined by the School of Graduate Studies.
2. An average grade equivalent to at least mid-B or better, normally demonstrated by an average grade in the final year or over senior courses.
3. At least two letters of reference.
4. Other qualifications as specified by a graduate unit.

5.2 Doctor of Philosophy Programs

Minimum requirements:
1. An appropriate master's degree or, in some programs, an appropriate bachelor's degree with high academic standing from a recognized university.
2. An average grade equivalent to a B+ or better in a previous master's degree program. Where relevant, demonstrated research competence equivalent to at least a B+ grade will be considered.
3. Direct entry from a bachelor's degree to a PhD program may be available when permitted by the graduate unit. For direct-entry applicants, an average grade equivalent to A- or better in courses in the relevant discipline is required.
4. At least two letters of reference.
5. Other qualifications as specified by a graduate unit.

5.3 Diploma Programs

There are several types of graduate diplomas, including master's level and post-master's level. Some diploma programs
General Regulations

involve concurrent registration with the degree program. Minimum requirements are as follows:
1. A bachelor’s degree is an appropriate degree for a master’s level or concurrent master’s diploma.
2. A master’s degree is an appropriate degree for a post-master’s diploma.
   Other qualifications may apply, as specified by a graduate unit.

5.4 Special Students

Before applying, applicants should identify the courses they wish to take and obtain approval from the graduate unit offering the course.
1. Full-time special students must have obtained an average grade equivalent to mid-B or better in the final year (or over senior courses) of a bachelor’s degree program.
2. Part-time special students who are accepted with less than mid-B standing are not normally considered admissible to a master’s degree at a later date.
3. At least two letters of reference are required for full-time special students.
4. Other qualifications as specified by a graduate unit.

5.4.1 Courses Taken as a Special Student

On the recommendation of the graduate unit, and with the School of Graduate Studies’ approval, graduate courses taken as a special student may count for up to 1.0 full-course equivalent (FCE) or 25% of the course requirements for the degree, whichever is greater, in a subsequent degree program at this university, provided that they have not already been credited towards another degree, diploma, certificate, or any other qualification. With the approval of the graduate unit, they may serve to satisfy prerequisite requirements. Special students’ programs must include at least one graduate course. Any tuition fees paid as a special student cannot be transferred to a subsequent degree program.

5.5 English-Language Facility Tests

The English-language facility requirements may be satisfied by using one of the following tests. Minimum scores are listed; however, many graduate units require a higher score, and applicants should consult the graduate unit to determine whether a higher minimum score applies.

<table>
<thead>
<tr>
<th>Academic Division</th>
<th>Paper-Based Test and TWE</th>
<th>Internet-Based Test including Writing and Speaking Sections</th>
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<tbody>
<tr>
<td>I. Humanities</td>
<td>Overall score: 580</td>
<td>Overall score: 93 Writing: 22 Speaking: 22</td>
</tr>
<tr>
<td></td>
<td>TWE: 5</td>
<td></td>
</tr>
<tr>
<td>II. Social Sciences</td>
<td>Overall score: 580</td>
<td>Overall score: 93 Writing: 22 Speaking: 22</td>
</tr>
<tr>
<td></td>
<td>TWE: 5</td>
<td></td>
</tr>
<tr>
<td>III. Physical Sciences</td>
<td>Overall score: 580</td>
<td>Overall score: 93 Writing: 22 Speaking: 22</td>
</tr>
<tr>
<td></td>
<td>TWE: 4</td>
<td></td>
</tr>
<tr>
<td>IV. Life Sciences</td>
<td>Overall score: 580</td>
<td>Overall score: 93 Writing: 22 Speaking: 22</td>
</tr>
<tr>
<td></td>
<td>TWE: 5</td>
<td></td>
</tr>
</tbody>
</table>

TOEFL Minimum Score Requirements

Consult the graduate unit to which you are applying to determine if a higher minimum score is required.
5.5.1 **Test of English as a Foreign Language (TOEFL)**

Educational Testing Service  
PO Box 6151  
Princeton, New Jersey  
08541-6151 USA  
Web: www.toefl.org  

The TOEFL examination is offered in two formats: the traditional paper-based format (only offered on specific dates in a limited number of countries) and the Internet-based format (offered year-round). Applicants registering for the paper-based TOEFL must include the Test of Written English (TWE) component. The Internet-based test must include the writing and speaking sections. All applicants must satisfy the minimum TOEFL score requirements set by each of the four SGS academic divisions listed in the accompanying chart.

5.5.2 **Michigan English Language Assessment Battery (MELAB)**

English Language Institute (ELI)  
University of Michigan  
Ann Arbor, Michigan  
48109-1057 USA  
Web: www.lsa.umich.edu/eli/testing/melab  
Required score: 85

5.5.3 **International English Language Testing System (IELTS)**

University of Cambridge Local Examinations Syndicate  
1 Hills Road  
Cambridge, UK  
CB1 2EU  
Web: www.ielts.org  

Applicants may also contact their nearest British Council Office. Note that applicants must take the academic module of this test.  
Required score: 7.0

5.5.4 **The Certificate of Proficiency in English (COPE)**

COPE Testing Limited  
429 Danforth Avenue  
PO Box 462  
Toronto, Ontario  
M4K 1P1 Canada  
E-mail: info@copetest.com  
Web: www.copetest.com  
Required score: 76 minimum total with at least 22 in each component and 32 in writing

5.5.5 **International ESL—Academic Preparation Level 60 (Advanced)**

School of Continuing Studies  
University of Toronto  
158 St. George Street  
Toronto, Ontario  
M5S 2V8 Canada  
E-mail: scs.registrar@utoronto.ca  
Web: http://learn.utoronto.ca/esl  
Required score: B
6 Structure of Academic Programs

6.1 Academic Year

In the School of Graduate Studies, the academic year begins in September and ends in August. The academic year is divided into three sessions: the fall session (September–December), the winter session (January–April), and the summer session (May–August).

6.2 Academic Programs

Academic programs leading to graduate degrees are defined by the units that offer them and by the degree regulations found in the Degree Regulations section. Consult the relevant graduate unit listing in the Graduate Programs section of this calendar or on the Web at www.sgs.utoronto.ca/programs.htm for additional information.

6.3 Minimum Period of Registration

All academic programs (full-time and part-time) specify a minimum period of registration defined as the shortest length of time a student must be registered in that program on a full-time basis in order to qualify for the degree. This period also establishes the minimum degree fee students must pay.

6.4 Normal Program Length

Normal program length refers to the period of time (sessions or academic years) that is normally required for a student to complete a program. Actual time to complete a program may vary for individual students. See each program entry (in the Graduate Programs section) for normal program length.

6.5 Residence

Many programs specify a period of residence during which the student is required to be on campus and consequently in such geographical proximity as to be able to participate fully in the university activities associated with the program. Residence provides the student with an opportunity to become immersed in the intellectual environment of the university.

6.6 Time Limit

All degree requirements must be completed within a specific period of time. The time limit for a degree is the maximum period of registration permitted for the completion of the degree. The time limit for all graduate degrees is as follows:

- PhD: 6 years (7 years for direct-entry, i.e., 5-year PhD students)
- flexible-time PhD program option: 6–8 years (depending upon program)
- professional doctoral: 5–6 years
- full-time master's: 3 years (except for the MArch: 4 years)
- part-time master's: 6 years
- combined degrees: 4 years

See Degree Regulations and General Regulations (section 7.1.10 Extension of Time for Completion of Degree Requirements) for more information.
7 Registration and Enrolment

Registration is the process by which a person has established, for an academic period, an active association with a program of study.

Enrolment is the approved engagement by a student in a course or other unit or component of a program of study.

The complete policy on Association, Admission and Registration is available on the University of Toronto website at www.governingcouncil.utoronto.ca/policies/assoc.htm.

7.1 Registration Policies and Procedures

7.1.1 Registration Procedures

Graduate students are required to register at the beginning of each session they wish to attend. New graduate students will receive registration instructions prior to the registration dates listed in the Sessional Dates www.sgs.utoronto.ca/informationfor/students/inform/deadlines.htm. Students may access registration instructions on the Web at www.sgs.utoronto.ca/informationfor/students/start/reg_enrol.htm.

Students registering in programs offered by the Ontario Institute for Studies in Education of the University of Toronto (OISE) should consult OISE for information.

For the fall and winter sessions, registration material is posted online and students should consult the SGS website or their graduate unit's website for detailed registration information. Students are asked to check their ROSI account to view their invoice online. Every effort is made to ensure that only students who are eligible to register receive registration material. However, receiving it does not override any other notification students receive about academic status and eligibility. New students who have received a conditional offer of admission should make arrangements with their graduate unit to clear conditions as soon as possible. The first step to registration is the payment of fees or arrangements to pay such fees. New students can access the School of Graduate Studies calendar online www.sgs.utoronto.ca/calendar.htm.

A student is considered to be registered once any conditions of admission have been satisfied and academic and incidental fees are paid or a fees arrangement has been made.

7.1.2 Full-Time Studies

Students registered as full-time students in the School of Graduate Studies must be engaged in their studies on a full-time basis, as required by government regulations for full-time graduate studies.

Full-time graduate students are defined according to government regulations as follows:

1. They must be pursuing their studies as a full-time occupation and identify themselves as full-time graduate students.
2. They must be designated by the university as full-time students.
3. They must be geographically available and visit the campus regularly.
4. They must be considered to be full-time students by their supervisors.
5. If an academic program requires an absence from the university, students must apply through their graduate unit for permission to be off campus.

A full-time student may be absent from the university for an extended period or may participate in a program offered by another university if, and only if, the student has received written permission from the graduate unit in which he or she is registered. A graduate student who, in a given session, is absent from the university without receiving prior approval may lose good academic standing. In exceptional cases, a graduate unit may recommend to the School of Graduate Studies the termination of the student’s registration and eligibility.

7.1.3 Part-Time Studies

From first registration, part-time studies are permitted in those master’s degree programs offering a part-time program.

Students wishing to take 0.5 or 1.0 full-course equivalent (FCE) not for degree credit are admitted as part-time special students, in any session. A switch from full-time to part-time status is not permitted once the minimum period of registration for a program has been completed.

7.1.4 Flexible-Time Studies

Some PhD programs offer a flexible-time PhD program option in which students are
registered full-time for four years and may transfer to part-time registration later in the program. See Degree Regulations, Admission Requirements, section 1.1.1.3 Flexible-Time PhD Program Option and Program Requirements, section 1.1.3.8 Flexible-Time PhD Program Option for further information.

### 7.1.5 Summer Session Courses

All students, whether attending formal courses or engaging in research or project work, must register for the summer session. Students may view summer session registration instructions on the SGS website. Doctoral, MSc, and MASc students register for the September–August or January–August period when they first register in September or January and, therefore, are already registered for the summer session.

In addition to a large program of research supervision and independent study, the School of Graduate Studies offers a limited number of graduate courses for credit towards higher degrees during the summer. Summer courses are equivalent to those offered during the fall and winter sessions but vary in duration and thus in frequency of meeting. Some courses will last 12–14 weeks while others will meet for only 7 weeks.

For students attending the May–August session, the maximum possible load is 2.0 full-course equivalents (FCEs). The maximum load in the May–June or July–August period is 1.0 FCE.

### 7.1.6 First Registration

Students beginning their degree programs normally register for the first time in September. In some cases graduate units may give permission for new students to start their programs either in January, May, or July.

### 7.1.7 Continuity of Registration

Students in a thesis program (doctoral or master's) or in coursework-only master's programs with other requirements to complete, such as a project, major research paper, or recital, must be continuously registered.

### 7.1.7.1 Master’s Students: Continuous Registration

Once they have first registered, full-time and part-time master's students in programs that require continuous registration must register annually until all degree requirements have been completed. Full-time master's students who have completed the minimum period of registration may not register as part-time students.

### 7.1.7.2 Master’s Students: Coursework-Only

Full-time master's students in course-work-only programs must register initially for the minimum registration period and thereafter for each session in which they are completing requirements for the degree. Master's students in coursework-only programs proceeding to their degree on a part-time basis register in those sessions in which they are completing course requirements for the degree. When all course requirements have been completed, part-time master's students must register annually until all other requirements have been completed. A switch from full-time to part-time status is not permitted once the minimum period of registration for a program has been completed.

Prior to completing all courses in a coursework-only program, and with the permission of their graduate unit, master's students admitted to a full-time or part-time program may “stop out” between sessions for up to 12 months. However, no change is made to the time limit for completing the degree.

Master's students are advised to consult their graduate units for further information on continuity of registration requirements, particularly with regard to the summer session; many graduate units expect their students to be registered for all three sessions.

Students are reminded that there are time limits for all degree programs. For further details, see General Regulations, section 7.1.10 Extension of Time for Completion of Degree Requirements.

### 7.1.7.3 Doctoral Students

All doctoral students must register annually until all degree requirements have been fulfilled. See General Regulations section 7.1.10 Extension of Time for Completion of Degree Requirements for further details.

### 7.1.8 Late Registration Fee

Since it is the student's responsibility to ensure that proper registration is completed on time, late registration will be subject to an
additional fee as specified in the Fees and Financial Support section of this calendar.

7.1.9 Failure to Register

Students will not receive credit for work completed during a session in which they have not registered.

Students who fail to register during a program requiring continuity of registration and who do not have an approved leave may only apply to re-register if at the time of application they are still within the maximum allowable time for the degree program (normal time limit plus maximum extension years). A student wishing to re-register must apply to the relevant graduate unit. Reinstatement requires approval from both the graduate unit and SGS. The program’s normal requirements and time limits will apply to reinstated students as if they had been continuously registered, and reinstated students must pay fees owing for any session(s) in which they did not register. Non-registered students forfeit any funding that would have been available had they been registered.

7.1.10 Extension of Time for Completion of Degree Requirements

7.1.10.1 Master’s Students

In exceptional circumstances, a master’s student who did not complete all the requirements for the degree within the period specified in the degree regulations may be considered for a maximum of three one-year extensions provided that the graduate unit concerned so approves. The first two extension requests require departmental approvals; the third requires departmental and School of Graduate Studies approvals. To apply for an extension, the student must complete the Program Extension Form (www.sgs.utoronto.ca/informationfor/students/inform/stuforms.htm) and present to the graduate unit concerned the causes for the delay and evidence that the remaining degree requirements may be completed within the period of the extension request. No registration beyond the extension period will be permitted.

For information on tuition fees, see Fees for Students on Extension, in the Fees and Financial Support section of this calendar.

7.1.11 Concurrent Registration Option

Note: Available at the master’s-degree level only.

The concurrent registration option is available only in degree programs with approved partner degree programs at the University of Toronto. Students who are accepted into each partner degree program separately may enrol in the concurrent program option in each degree program, subject to the approval of both programs. Graduate master’s programs may partner with other graduate programs or with undergraduate degree programs (e.g., JD).

7.1.12 Dual Registration

A student in a master’s program at this university who has been offered admission to a PhD program conditional on completion of the master’s program may be a dual registrant for only one session in both programs under the following conditions:

1. A minimal amount of work remains to complete the requirements for the master’s degree. A student may enrol in a maximum of 0.5 full-course equivalent (FCE; one half course) for the master’s program in the one session of dual registration with the approval of the graduate unit.
2. Permission has been granted by the graduate unit.

7.1.10.2 Doctoral Students

In exceptional circumstances, a doctoral student who has not completed all the requirements for the degree within the time limit for doctoral degree is eligible to apply for four one-year extensions. The first two extension requests require graduate unit approvals; the second two require graduate unit and School of Graduate Studies approvals. To apply for an extension, the student must complete the Program Extension Form (www.sgs.utoronto.ca/informationfor/students/inform/stuforms.htm) and present to the graduate unit concerned the causes for the delay and evidence that the remaining degree requirements may be completed within the period of the extension request. No registration beyond the four-year extension period will be permitted.

For information on tuition fees, see Fees for Students on Extension in the Fees and Financial Support section of this calendar.
3. The student will be engaged in full-time PhD studies and will be registered full-time in the PhD and part-time in the master’s program. Only the appropriate PhD fees will be charged.

4. The period of dual registration will be either September 1–January 31 or January 1–April 30.

In order to receive credit for the PhD for the period as a dual registrant, the student must be recommended for the award of the master’s degree by January 27 for September dual registrants, or by April 20 for January dual registrants. Otherwise, the PhD registration will be cancelled, no credit for the PhD will be allowed, and the student will continue to be registered as a master’s student only. An appropriate fees adjustment will be made so that the student will be charged fees only as a master’s student. PhD course credit will be retained for courses completed in the period of dual registration provided the graduate unit has informed the School of Graduate Studies.

Students who are not recommended for the master’s degree by the deadline and whose enrolment in the PhD is thereby cancelled may not apply for dual registration a second time. They must successfully complete the requirements for the master’s degree before registering in the PhD program.

7.1.13 Simultaneous Registration

Simultaneous registration in two full-time programs is not permitted. With the consent of both graduate units concerned, or of the graduate unit and another faculty or school, and written notification to the School of Graduate Studies, simultaneous registration in a full-time program and a part-time program may be permitted. Two part-time registrations in different programs also may be permitted. Students are responsible for the fees charged for both programs.

7.1.14 Leave Policy

Graduate students whose programs require continuous registration may apply to their Graduate Coordinator for a one-session to three-session leave during their program of study for:

1. **serious health or personal problems** which temporarily make it impossible to continue in the program; or
2. **parental leave** by either parent at the time of pregnancy, birth or adoption, and/or to provide full-time care during the child’s first year. Parental leave must be completed within 12 months of the date of birth or custody. Where both parents are graduate students taking leave, the combined total number of sessions may not exceed four.

Once on leave, students will neither be registered nor will they be required to pay fees for this period. In general, students on leave may not make demands upon the resources of the university, attend courses, or expect advice from their supervisor. As an exception, students on leave for parental or serious health reasons who wish to consult with their supervisor or other faculty are advised to make special arrangements through their department. Students on leave will not be eligible to receive University of Toronto financial assistance. In the case of other graduate student awards, the regulations of the particular granting agency apply.

Students may make application for a leave by completing the Leave of Absence Form (www.sgs.utoronto.ca/informationfor/students/inform/stuforms.htm) and submitting it to their Graduate Coordinator for approval. The form is then sent to the School of Graduate Studies for processing. The termination date of the degree program will be extended by the duration of the leave taken, i.e., one, two, or three sessions as appropriate. Except for parental leave or in exceptional circumstances, it is not expected that a student will be granted more than one leave under the terms of this policy. Normally the start and finish of the leave would coincide with the start and end of a session. When students require a leave to begin in mid-session, they are advised to contact the Director of Student Services at the School of Graduate Studies to make special arrangements.

Leave requests that do not fall under the terms of this policy will require final approval from the School of Graduate Studies.

7.1.15 Withdrawal from a Graduate Program

In order to withdraw from a program, students must submit a Program Withdrawal Form (www.sgs.utoronto.ca/informationfor/students/inform/stuforms.htm) to the School of Graduate Studies and return student cards to SGS. Withdrawal from a graduate program should be reported immediately to SGS. A rebate of fees, if any, will be determined by the date on which written notification of
withdrawal is received by SGS. Any application for re-admission by a student who has withdrawn must be made in competition with all other applicants.

Students enrolled in coursework-only degree programs who withdraw from all courses in which they are currently enrolled must withdraw from their programs. The School of Graduate Studies will approve recommendations from the graduate units that such students be eligible to re-register at any time within 12 months following withdrawal.

7.1.16 Policy on Graduate Courses and Other Academic Activities

See also SGS Guidelines on Graduate Courses and Other Academic Activities (www.sgs.utoronto.ca/governance/policies.htm).

7.1.16.1 Graduate Courses

All graduate programs are composed of a number of academic requirements that include graduate courses and other academic activities. A graduate course is a discrete, time-delimited unit of instructional/learning activity identified by a course code, in which students enrol. Graduate courses must be approved according to the relevant SGS policies and procedures. All graduate courses must have an instructor in charge who has a graduate faculty membership in the graduate unit(s) responsible for the course. A full graduate course (course weight of 1.0 full-course equivalent [FCE]) should involve a minimum of 48–72 hours of organized activity (e.g., two lectures or three hours of laboratory work a week over two sessions); a half course (0.5 FCE) should require approximately half this time commitment. Normally the beginning and end dates for courses should coincide with the beginning and end dates of university sessions.

Graduate courses may take many forms and their timing may not always coincide with the normal beginning and end of classes in each session.

If a course is not offered for more than five years, it becomes inactive and SGS will archive the course in the Repository of Student Information (ROSI). Download the SGS Guidelines for De-activating/Archiving and Re-activating Graduate Courses at www.sgs.utoronto.ca/Assets/SGS+Digital+Assets/governance/policies/CourseArchivingGuidelines.pdf.

7.1.16.2 Course Codes

All graduate courses have course codes consisting of:

• a prefix associated with the academic unit or program (three letters);
• a four-digit course number; and
• a suffix associated with the course weight (alpha character).

Normally, course weight is measured in full-course equivalencies (FCEs) and is indicated via a Y or H suffix:

Y (full course): 1.0 FCE, normally taken over two sessions
H (half course): 0.5 FCE, normally taken over one session

Course weight variations occur in some graduate programs. These variations often take the form of modular courses. A modular course is a course that has a non-standard weight, may have non-standard start and end dates within a session, and is usually combined with other course components so that the total equals 0.5 or 1.0 FCE. The minimum contact hour requirement applies to modular courses, equivalent to course weight.

7.1.16.3 Other Academic Activities

Graduate programs may have a variety of requirements that are not courses but constitute other academic activities that have been approved according to SGS policies and procedures. Some common non-course academic activities are major research papers, comprehensive examinations, practica, and internships.

7.2 Enrolment Policies and Procedures

7.2.1 Enrolment

After registration, students enrol with their graduate units and arrange programs of study (courses, research topics, supervisors, and so on). Students should contact the graduate unit for enrolment procedures. Enrolment should be completed by the deadline noted in the Sessional Dates.

Most of the formal classes and seminars in the fall session begin in the week of September following Labour Day. However, starting dates are determined by the graduate units, and students are urged to contact the relevant graduate units for information.
General Regulations

Not every course will be given in any one year. Consult the graduate unit concerning course availability.

7.2.2 Deadlines for Enrolment Changes

Graduate units may establish earlier deadlines for course changes. Courses must be dropped by completing a Course Add/Drop Form (www.sgs.utoronto.ca/informationfor/students/inform/stuforms.htm) or by using the Student Web Service (www.rosi.utoronto.ca), if the department permits access. In order to avoid academic penalties, courses must be dropped by the following deadlines:

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep. 26, 2011</td>
<td>Deadline to add full courses (Y) and half courses (H).</td>
</tr>
<tr>
<td>Oct. 31, 2011</td>
<td>Deadline to drop a fall session full course or half course without academic penalty.</td>
</tr>
<tr>
<td>Jan. 23, 2012</td>
<td>Deadline to add winter session full courses (Y) and half courses (H).</td>
</tr>
<tr>
<td>Feb. 27, 2012</td>
<td>Deadline to drop a full course (Y) or winter session half course (H), or withdraw from a program without academic penalty.</td>
</tr>
</tbody>
</table>

Students enrolled in coursework-only programs who drop all courses by the deadlines, must withdraw from the program. See General Regulations, section 7.1.15 Withdrawal from a Graduate Program.

7.2.3 Completion of Coursework and Grade Submission

Coursework must be completed and grades submitted by the following dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 13, 2012</td>
<td>Fall session (Y, H) courses</td>
</tr>
<tr>
<td>May 11, 2012</td>
<td>Fall/winter session (Y) and winter session (Y, H) courses *For students receiving degrees at June convocation, grades must be submitted by April 24.</td>
</tr>
<tr>
<td>Jul. 20, 2012</td>
<td>May/June summer session courses</td>
</tr>
<tr>
<td>Sept. 14, 2012</td>
<td>July/August summer session courses and extended courses</td>
</tr>
</tbody>
</table>

Graduate units may establish earlier deadlines for completion of coursework and may prescribe penalties for late completion of work and for failure to complete work, provided that these penalties are announced at the time the instructor makes available to the class the methods by which student performance shall be evaluated.

7.2.4 Coursework Extensions

Students are expected to meet the course deadlines, both of the School of Graduate Studies and of the graduate units in which they are registered, and are advised to plan their research projects accordingly. Students who find themselves unable to meet SGS deadlines for completing coursework can, under certain conditions, receive extensions for completing the work after the date set by SGS.

7.2.4.1 Petitions

The authority to grant an extension for the completion of work in a course beyond the original SGS deadline for that course rests with the graduate unit in which the course was offered, not the instructor of the course. Students will petition the graduate unit for extensions, using a standard form provided by SGS at www.sgs.utoronto.ca/informationfor/students/inform/stuforms.htm.

The deadline for requesting an initial extension is the deadline for completion of coursework and grade submission for courses offered in the relevant session, as specified in this calendar.

A student on extension who is unable to complete the required coursework in the extension period specified by the graduate unit may apply to the graduate unit for a continuation of the extension (subject to the time limits and deadlines for extensions, set out below); however, the student must make such a request before the expiry date of the extension period in place.

7.2.4.2 Grounds

Legitimate reasons for an extension can be academic in nature (e.g., unexpected problems of research in a course) or non-academic (e.g., illness). In order to ensure as much uniformity and fairness as possible in the granting of extensions (or continuations of extensions), the relevant graduate unit must be reasonably certain that:
1. the reasons for the delay are both serious and substantiated: the student must provide a statement detailing the reasons, together with a physician’s letter in the case of illness;
2. the student would not be granted an unfair academic advantage over fellow students in the course;
3. the student would not be placing in jeopardy the normal and satisfactory completion of new coursework; and
4. the student does have a reasonable chance of completing outstanding requirements within the time to be allotted.

7.2.4.3 Time Limits

If a graduate unit grants a petition for an extension, it must specify an extension period, which is not to run beyond the SGS deadline for completion of coursework and grade submission following the original SGS deadline for the course. Thus, the deadlines for course extensions are as follows:

<table>
<thead>
<tr>
<th>Date</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 11, 2012</td>
<td>Fall session (Y, H) courses</td>
</tr>
<tr>
<td>Sept. 14, 2012</td>
<td>Fall/winter session (Y) and winter session (Y, H) courses</td>
</tr>
<tr>
<td>Jan. 11, 2013</td>
<td>Summer session courses and extended courses</td>
</tr>
</tbody>
</table>

A graduate unit may grant a continuation of an extension that is already in place provided that it does not extend the total period of the extension beyond the foregoing deadlines.

Extensions beyond these deadlines will require the approval of both the graduate unit and the SGS Admissions and Programs Committee.

7.2.4.4 Grade-Reporting Procedures

The graduate unit will assign the temporary course report of SDF (Standing Deferred) to a student on extension, pending receipt from the instructor and graduate unit of a final course report. The final course report is due no later than the SGS deadline for completion of coursework and grade submission following the original one for the course. If, by that date, the student has not submitted the outstanding coursework, the submitted grade should be the actual grade earned in the course, calculated with zero assigned to any coursework that is still incomplete. If there are compelling reasons for a further extension, and a graduate unit-supported request is approved by SGS, then the temporary report of SDF will be maintained until either a final course report is received by SGS, or the relevant deadline has expired. Use of non-grade course reports such as WDR or INC, and amendments to submitted grades, must be approved by the SGS Admissions and Programs Committee.

7.2.4.5 SGS and Graduate Unit Notification

Graduate units are to notify SGS of extensions no later than the original deadlines for submitting grades for the relevant courses or, in case of continuations, no later than the expiry dates of the original periods of extension, providing in each case the new deadline for completion of coursework.

In addition, a graduate unit should notify the graduate unit in which the student is registered when it is not the same as the one granting the extension.

7.2.5 Extra Courses Not Required for the Degree

Graduate units may permit students to enrol in additional courses not required for the degree. Such courses must be so designated on the student’s enrolment form. These courses are subject to the same regulations regarding withdrawal, failure, and failure to complete work as are courses required for the degree, except that repetition or replacement of failed or incomplete courses may be waived by the graduate unit.

7.2.6 Prerequisite Courses

At least B- is required in all prerequisite courses but some graduate units may require a higher average; students should consult the graduate unit in advance.

7.2.7 Auditing of Graduate Courses

Graduate units determine if they wish to allow auditing of their courses and which groups of students and non-students specified in the University of Toronto’s Policy on Auditing of Courses (www.governingcouncil.utoronto.ca/policies/phoct2094.htm) they wish to allow. When auditing is allowed, the final decision to permit an individual to audit
rests with the instructor of the course. In all cases, students registered in the university who wish to audit courses have priority over others. An auditor may attend lectures and other class meetings, take part in class discussions, and, when the appropriate fee is paid, receive written confirmation of attendance. An auditor will not receive evaluations of participation and will not be allowed to submit assignments or write examinations and tests except by special and express permission. Audited courses are not recorded on the student's official transcript. The University of Toronto's Code of Student Conduct (online at www.governingcouncil.utoronto.ca/policies/studentc.htm) applies to auditors. Further information about access, certificates of attendance, and fees for auditing may be obtained from the office of the Director of Student Services at the School of Graduate Studies.

7.2.8 Transfer Credit and Exemptions

Transfer credit for graduate work completed in another program is limited to 1.0 full-course equivalent (FCE) or 25% of the course requirements for any degree, whichever is greater, provided that the courses have not been credited towards another degree, diploma, certificate, or any other qualifications. Such credit may be given on the recommendation of the student's graduate unit and with the School of Graduate Studies' approval, normally upon admission. Exceptions to the limit are allowed when approved for specific degrees.

Students participating in an approved exchange program on the recommendation of their graduate unit may receive transfer credit for up to 50% of the course requirements for their degree. They may also complete language requirements while on the exchange. When recommended by the unit and approved by the SGS Dean, that percentage may be exceeded by doctoral students. In all cases, transfer credit arrangements for exchange program participants must be approved in advance by the SGS Dean or designate.

Transfer of credit and course exemptions include the following categories:

1. **Transfer Credit: Course Equivalent**
   Credit received for course completed in a prior program is considered to be equivalent to course offered by the graduate unit, thus reducing the overall course credit requirements for degree.

2. **Transfer Credit: General Equivalent**
   Unassigned credit for course not identifiable with course offerings but which is evaluated as being appropriate for academic credit on transfer, thus reducing overall course credit requirements for degree.

3. **Course Exemption**
   The graduate unit may exempt a student from a specific course requirement permitting the substitution of another course to meet degree requirements. Overall course credit requirements for degree are not reduced.
Good Academic Standing and Satisfactory Academic Progress, Time Limits, Supervision, and Candidacy

8.1 All Degree Students

To be in good academic standing, a student registered in a degree program in the School of Graduate Studies must:

1. comply with the General Regulations of the School of Graduate Studies as well as with the Degree Regulations and program requirements governing that degree program; and

2. make satisfactory progress toward the completion of the degree.

All degree students are admitted under the General Regulations of the School of Graduate Studies, described in this section of this calendar. The degree regulations for the various doctoral and master's degrees offered by the School of Graduate Studies are specified in the Degree Regulations section of this calendar and in the Graduate Programs section, under the entry of the graduate unit offering the program. Each student is required to satisfy the program requirements found in the SGS Calendar (see Graduate Programs section) of the academic year in which the student first registered in the graduate program. Failure to maintain good academic standing may result in various sanctions, including ineligibility for financial assistance, lowest priority for bursaries and assistantships, and even termination. The School of Graduate Studies may terminate the registration and eligibility of a student

1. who fails to comply with the General Regulations of the School of Graduate Studies, the relevant Degree Regulations, or the specific degree requirements of the graduate unit in which the student is registered, or

2. who fails to maintain satisfactory progress in the degree program in which the student is registered, as measured either by the general standards of the School of Graduate Studies or by the specific standards of the graduate unit.

8.2 Full-Time Students

Students must meet the full-time studies requirements—see General Regulations, section 7.1.1 Registration Procedures.

8.3 Timely Completion of Graduate Program Requirements

Each graduate unit establishes specific requirements for degree programs, in addition to those of the School of Graduate Studies, as well as standards of satisfactory performance and progress. These requirements and standards are described in the appropriate entry in the Graduate Programs section of this calendar and in material published separately by graduate units. Continuation in a degree program requires satisfactory progress toward the completion of that program. A student's progress in a degree program will be considered satisfactory only if the student satisfies and completes the various requirements for that degree in a manner consistent with the SGS General Regulations and Degree Regulations and the graduate unit's time line for completion of the degree program. A graduate unit may recommend to the School of Graduate Studies that a student's registration and degree eligibility be terminated when a student fails to maintain satisfactory progress toward the completion of the degree.

8.4 Satisfactory Completion of Graduate Courses

Satisfactory performance in a degree program requires the completion of every course taken for graduate credit with a grade of at least a B-; some graduate units may require a minimum grade above a B- for some or all courses. If a student fails to complete a graduate course in a satisfactory manner (i.e., receives a grade report of FZ or NCR in a course, or receives a grade report below the minimum acceptable by the graduate unit then the graduate unit in which the student is registered may recommend to the School of Graduate Studies the termination of registration and eligibility of that student. If the student is permitted to continue, he or she must repeat the relevant course, or an alternative course recommended by the graduate unit and approved by the School of Graduate Studies, and obtain a satisfactory grade. The report for the course that was not completed
in a satisfactory manner as well as the report for the repeated or alternative course will appear on the student’s academic record.

8.5 Doctoral Students

8.5.1 Achieving Candidacy: Requirements and Time Limit

To achieve candidacy, students in doctoral degree programs must:

1. complete all requirements for the degree exclusive of thesis research and courses such as ongoing research seminars that run continuously through the program, and

2. have an approved thesis topic, supervisor, and supervisory committee.

Candidacy must be achieved by the end of the third year for all doctoral programs, except for the five-year PhD program, flexible-time PhD program option, and professional doctoral programs begun on a part-time basis. For those exceptions, candidacy must be achieved by the end of the fourth year of registration (see chart below).

Note: The foregoing time limits do not apply to courses that run continuously throughout the program.

<table>
<thead>
<tr>
<th>Doctoral Degree Program Categories</th>
<th>Time Limit to Achieve Candidacy</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD, four-year program</td>
<td>by end of third year</td>
</tr>
<tr>
<td>PhD, five-year program (direct-entry)</td>
<td>by end of fourth year</td>
</tr>
<tr>
<td>Flexible-time PhD program option</td>
<td>by end of fourth year</td>
</tr>
<tr>
<td>Professional doctoral program, full-time</td>
<td>by end of third year</td>
</tr>
<tr>
<td>Professional doctoral program, part-time</td>
<td>within four years of initial registration</td>
</tr>
</tbody>
</table>

In exceptional circumstances, a student who has not met these requirements may be permitted to register in the program for up to 12 months at the discretion of the graduate unit in which the student is registered. Continuation beyond 12 months will require the approval of both the graduate unit and the SGS Admissions and Programs Committee.

Completion of the program requirements identified above will signal the achievement of candidacy. Successful completion of candidacy is recognized by a notation on the transcript.

See also requirements and deadlines in the Degree Regulations section and unit entries in the Graduate Programs section of this calendar.

8.5.2 Supervision and Satisfactory Progress

All doctoral students should have an identified supervisor and supervisory committee as early as practicable in their program. The supervisory committee should consist of the supervisor and two other members of the graduate faculty. Where appropriate, the graduate unit should assist in selection of the supervisor. Both student and supervisor should be involved in the selection and approval of other supervisory committee members.

Unless the graduate unit has specified earlier deadlines, supervisory committees should be established no later than the end of the fourth session in all doctoral programs, except in five-year (direct-entry) PhD programs, flexible-time PhD program options, and part-time professional doctoral programs, where the supervisory committee should be established no later than the end of the seventh session (see chart below).

<table>
<thead>
<tr>
<th>Doctoral Degree Program Categories</th>
<th>Time Limit for Constituting Supervisory Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD, four-year program</td>
<td>by end of first session in second year</td>
</tr>
<tr>
<td>PhD, five-year program (direct-entry)</td>
<td>by end of first session in third year</td>
</tr>
<tr>
<td>Flexible-time PhD program option</td>
<td>by end of first session in third year</td>
</tr>
<tr>
<td>Professional doctoral program, full-time</td>
<td>by end of first session in second year</td>
</tr>
<tr>
<td>Professional doctoral program, part-time</td>
<td>by end of first session in third year</td>
</tr>
</tbody>
</table>

The student’s choice of supervisor and supervisory committee is subject to the approval of the graduate unit in which the student is registered. A student who encounters difficulties setting up a supervisory committee should consult the Chair, Director,
or Graduate Coordinator of the graduate unit in advance of the relevant deadline. A student who fails to constitute a supervisory committee by the required time may lose good academic standing.

A student is expected to meet with this committee at least once a year, and more often if the committee so requires. At each meeting, the supervisory committee will assess the student’s progress in the program and provide advice on future work. In each of two consecutive meetings, if a student’s supervisory committee reports that the student’s progress is unsatisfactory, the graduate unit may recommend to the School of Graduate Studies the termination of registration and eligibility of that student. A student who encounters difficulties arranging a meeting of this committee should consult the Chair, Director, or Graduate Coordinator of the graduate unit in advance of the relevant deadline for doing so. A student who, through his or her own neglect, fails to meet with the supervisory committee in a given year will be considered to have received an unsatisfactory progress report from the committee.

See also General Regulations, section 9 Graduate Student Supervision; Degree Regulations, section 1 Doctoral Degrees; and specific program requirements in the Graduate Programs section.

9 Graduate Student Supervision

9.1 Thesis Topic and Supervision

In those degree programs for which a thesis is part of the requirements, the work upon which the thesis is based must be conducted under the direction of one or more members of the faculty of the School of Graduate Studies.

A student must choose a thesis topic for which the graduate unit in which he or she is registered is able to provide adequate supervision.

A student’s choice of thesis topic, as well as his or her choice of supervisor and supervisory committee, is subject to the approval of the graduate unit in which the student is registered.

9.2 Doctoral Supervision

While the special, collaborative relationship between student and supervisor serves as a foundation for graduate education, particularly at the doctoral level, the primary responsibility for graduate programs and their supervision rests with the graduate unit. The Chair of the graduate unit has the principal obligation and authority for exercising these responsibilities, in accordance with the Constitution of the School of Graduate Studies, and, therefore, for implementing the academic and procedural standards established in the School of Graduate Studies.

Although this calendar outlines procedures to be followed in the supervision of doctoral students, it is clear that these have general applicability for all graduate students to some degree. It is essential that students have access to information relevant to their graduate program of studies, in all domains. Thus, each graduate unit will provide students with documentation that provides details of all procedures involved with graduate training, a list of members of the graduate faculty with relevant information concerning their participation, fields of expertise and supervision, and access to the document Graduate Supervision: Guidelines for Students, Faculty, and Administrators (available online at www.sgs.utoronto.ca/Assets/SGS+Digital+Assets/current/current+pdf/superv.pdf). In addition, updated statements must be made available to students on a regular basis. These will include a list of graduate students (with their
General Regulations

general thesis topic, supervisors, and advisors), the availability of financial assistance, and relevant information to affected students about the expected absences of their supervisor(s) and/or advisor(s). Any doctoral student who believes that his or her graduate unit is not following the supervision guidelines may inform his or her Coordinator of Graduate Studies or the Vice-Dean, Students, of the School of Graduate Studies.

The academic experience is greatly enhanced if members of the academic faculty, in addition to the direct supervisor, are readily and formally available for consultation and discussion with the graduate student. Therefore, an individual thesis supervisory committee or, as an alternative, an area supervisory committee, should be struck as early as possible for each graduate student, and certainly from the commencement of thesis supervision.

The graduate unit is responsible for adopting a procedure for monitoring the progress of doctoral students registered in its programs. Consistent with the document Graduate Supervision: Guidelines for Students, Faculty, and Administrators (available online at www.sgs.utoronto.ca/Assets/SGS+Digital+Assets/current/current+pdf/superv.pdf), the procedure must contain, at minimum, a supervisory committee that:

1. consists of the supervisor and at least two graduate faculty members;
2. meets with the student at least once per year to assess the student’s progress in the program and to provide advice on future work; and
3. submits a report detailing its observations of the student’s progress and its recommendations.

Further, the student must be given the opportunity to respond to the supervisory committee’s report and recommendations and to append a response to the committee’s report. Copies of the report must be given to the student and filed with the graduate unit.

9.3 Doctoral Final Oral Examination

All doctoral students must defend a thesis at a final oral examination organized by the graduate unit with the cooperation of the School of Graduate Studies (SGS), as follows:

1. The candidate shall defend the thesis at a final oral examination organized by the graduate unit with the cooperation of SGS. The process of scheduling the examination, allowing time for professional appraisal, can be expected to take at least eight weeks at the best of times, and candidates should discuss the timing with the graduate administration of their unit. Candidates should also ascertain whether their unit imposes regulations over and above the minimal conditions required by SGS.

2. The graduate unit will notify SGS eight weeks prior to the examination when the thesis is ready to go forward for examination. In the absence of any particular local procedure, the candidate’s supervising committee will advise SGS that the thesis is ready to proceed. In rare cases, a thesis may proceed to examination without the approval of the supervising committee; candidates who wish to proceed without such approval should contact the SGS Vice-Dean, Programs.

3. The thesis will be sent to an appraiser external to the University of Toronto, appointed by SGS on the recommendation of the graduate unit. (The supervisor of the thesis will propose a list of three or more names of possible external appraisers to the Graduate Coordinator or Chair, who will choose one and send the recommendation to SGS for approval. The graduate unit will certify that the external appraiser has an arm’s-length relationship to the candidate and supervisor.) The external appraiser should be a recognized expert on the subject of the thesis and be external to the university as well as to its affiliated teaching hospitals and research institutes. Such an individual must be an associate or full professor at the home institution or, if the individual comes from outside the academic sector, must possess the qualifications to be appointed to an academic position at this level. Arrangements with external appraisers are the responsibility of the graduate unit. In particular, the graduate unit must allow the external appraiser sufficient time to act. The graduate unit must have a copy of the thesis delivered to the appraiser at least six weeks, and preferably longer, in advance of the examination date. Appraisals must be submitted to SGS at least two weeks in advance of the examination date; if they are not, the examination may have to be rescheduled. The graduate unit must also ensure that copies of the thesis are made available to all other voting members of the exami-
4. An examination committee, appointed by SGS on the recommendation of the graduate unit, will conduct the final oral examination. The examination committee must include at least four, but no more than six, voting members: one to three of the voting members will have served on the candidate’s supervisory committee, and at least one voting member will not have been closely involved in the supervision of the thesis. Eligible for inclusion in the latter group are the external appraiser (in person or by audio connection), members of the graduate faculty of the candidate’s graduate unit, and members of the graduate faculty of other departments, centres, or institutes of the university. The examination committee may include, in addition, up to two non-voting members, who will be members of the graduate faculty of the candidate’s graduate unit or members of the graduate faculty of another graduate unit of the university. The examination committee may include, in addition, up to two non-voting members, who will be members of the graduate faculty of the candidate’s graduate unit or members of the graduate faculty of another graduate unit of the university. A quorum is four voting members. Graduate units must ascertain in advance the willingness of the persons named to act.

The SGS Vice-Dean, Programs, may modify the composition of the examination committee to fit exceptional circumstances.

5. SGS will appoint a non-voting chair to the examination committee. The chair will be a full member or member emeritus of the graduate faculty, holding no appointment to the graduate faculty of the candidate’s graduate unit.

6. The graduate unit is responsible for scheduling the examination, booking a room, and making appropriate technical arrangements.

7. The graduate unit must submit to SGS a Certificate of Completion together with the nomination form confirming completion of all other academic requirements, such as language and field requirements; an abstract of the thesis not longer than 350 words; and a copy of the examination program.

8. The graduate unit will send a copy of the external appraisal of the thesis to SGS as soon as it is received. The graduate unit is responsible for the distribution of copies of the external appraisal to the candidate (two weeks before the examination) and members of the examination committee. It should not be distributed beyond that group and the relevant administrative officers before the examination. The candidate is to be instructed not to communicate with the external appraiser/examiner until the examination is under way.

9. Members of the graduate faculty are entitled to attend the examination, and with the permission of the chair, they may ask questions of the candidate, but they must withdraw before the committee’s discussion and vote. A qualified observer may attend, subject to the same restrictions, if the graduate unit has received approval for such attendance in writing beforehand from the SGS Vice-Dean, Programs. Otherwise, the examination is closed to the public. The vote at the examination takes into account both the thesis and the oral defence itself.

10. The examination committee represents the SGS Graduate Education Council and through it the university. It is therefore responsible for the standard of the doctoral degree in this university. Graduate unit examinations held immediately in advance of the final oral must not therefore interfere with attendance at, or thoroughness of, the final examination.

The committee must evaluate the external appraisal of the thesis, which is to be considered only as an individual opinion to be employed as the committee sees fit. It must examine the candidate on the content and implications of the thesis. Where someone other than the candidate is a co-author of any portion of the thesis, the examination committee must be satisfied that the candidate’s personal contribution to the thesis is sufficient to fulfill the requirements of the doctoral degree. In addition to determining the adequacy of the thesis, the committee must satisfy itself that the thesis document meets the proper standards of scholarship.

The committee possesses the full authority of the School of Graduate Studies with respect to the examination.

11. A quorum for the final examination is four voting members, plus the examination committee chair who has no vote. Voting shall be by signed ballot, and the names of the examiners and their respective votes shall be read to the examination committee by the chair. If a quorum is not present, the chair may delay the examina-
tion to obtain a quorum or may postpone the examination to another date.

12. The candidate passes on the first examination:
   a. if the decision is unanimous; or
   b. if there is not more than one negative vote or abstention.

   If there is more than one negative vote or abstention, adjournment is mandatory.

   In the event of adjournment, the examination committee must provide the candidate, as soon as possible, with a written statement that indicates the reasons for adjournment and the committee’s requirements for the reconvened oral examination. In addition, the examination committee must decide the approximate date of the reconvened examination. The time between the adjourned examination and the reconvened examination should be as short as circumstances will permit and in no case shall exceed one year.

   At the reconvened examination, no new committee members shall be added, except for necessary replacements. It is the obligation of the examiners to attend the reconvened examination.

   The candidate passes on the reconvened examination:
   a. if the decision is unanimous; or
   b. if there is not more than one negative vote or abstention.

   No further adjournment will be allowed.

   If a candidate is not recommended for the degree by the committee in charge of the second examination, the candidate is ineligible for further doctoral candidacy at the university. The examination committee must provide the candidate, as soon as possible, with a written statement that explains clearly and directly why the examiners found the candidate’s performance unsatisfactory on the written and/or oral components of the examination, as may be relevant.

13. If minor corrections in style are a condition of acceptance of the thesis, the candidate must complete the corrections within one month of the date of the examination, and the supervisor will inform the candidate of the necessary corrections. The supervisor must notify the School of Graduate Studies directly in writing that the required corrections have been made by the candidate, with a copy of the correspondence sent to the graduate coordinator of the graduate unit, before the candidate is recommended for the degree.

14. If minor modifications are a condition of acceptance of the thesis, the chair of the examination committee will appoint a subcommittee of the examination committee (to be approved by the examination committee) to supervise the proposed modifications. One member of the subcommittee is designated by the chair, with the approval of the examination committee, as the convenor. The convenor will be responsible for the preparation of a statement detailing the modifications required. Modifications must be completed within three months of the date of the oral examination. The members of the subcommittee will report on the acceptability of the completed modifications to the convenor. If all members of the subcommittee approve the completed modifications, the candidate will be passed without the necessity of reconvening the examination committee. The convenor of the subcommittee must certify in writing to the School of Graduate Studies, within three months of the original examination, that the modifications have or have not been satisfactorily completed. If one or more members of the subcommittee do not approve the completed modifications, the final oral examination must be reconvened within a year of the date of the original examination.

   The examination committee must decide the nature of minor modifications, but it is intended that minor modifications should be more than corrections in style and less than major changes in the thesis. A typical example of minor modifications might be clarification of textual material or qualification of research findings and conclusions.

15. The Library and Archives Canada publication agreement must be signed by the candidate when the final thesis is submitted electronically through T-Space; see General Regulations, section 9.4 Submission of Theses. The format of the submitted thesis must comply with the School of Graduate Studies guidelines.

16. SGS requires that every doctoral thesis be published substantially as it is accepted.

   It is the intention of the University of Toronto that there be no restriction on the distribution and publication of theses. However, in exceptional cases, the author,
in consultation with the thesis supervisor and with the approval of the chair of the graduate unit, shall have the right to postpone distribution and publication for a period up to two years from the date of acceptance of the thesis. In exceptional circumstances and on written petition to the Dean of the School of Graduate Studies, the period might be extended, but in no case for more than five years from the date of acceptance of the thesis unless approved by the SGS Graduate Education Council.

For further details, students should consult Producing Your Thesis at www.sgs.utoronto.ca/informationfor/students/finup/producingthesis.htm.

9.4 Submission of Theses

One electronic copy of the final approved version of the defended thesis (master’s or doctoral) must be submitted to SGS through T-Space (https://tspace.library.utoronto.ca), the digital research repository for the University of Toronto community. All theses will be submitted to the national thesis program at Library and Archives Canada, and theses will be made publicly available on the Theses Canada Portal. This program makes theses available to ProQuest, which in turn makes theses available for purchase on its ProQuest Dissertations & Theses Database and includes the catalogue records in its bibliographic services. It is the intention of the University of Toronto that there will be no restriction on the distribution and publication of theses. However, in exceptional cases, the author, in consultation with the thesis supervisor and with the approval of the chair of the graduate unit, shall have the right to postpone distribution and publication for a period of up to two years from the date of acceptance of the thesis. In exceptional circumstances and on written petition to the Dean of the School of Graduate Studies the period might be extended, but in no case for more than five years from the date of acceptance of the thesis, unless approved by the Graduate Education Council.

Following electronic submission of the thesis, a signed hard copy of the Library and Archives Canada Theses Non-exclusive License form (available online at www.collectionscanada.gc.ca/thesescanada), along with any necessary copyright permissions, must also be submitted to SGS. Candidates will be charged a fee for the processing and indexing of the thesis.

Specific formatting guidelines must be followed so that theses conform to the requirements of SGS and for the publication of the thesis. Theses that do not conform to these formatting guidelines will not be accepted. For more information about required fees, forms, copyright, thesis formatting, and other related matters, visit the Information for Students’ section of the SGS website: www.sgs.utoronto.ca/informationfor/students/finup/producingthesis.htm.

9.4.1 Doctoral Thesis

Prior to the final oral examination, required copies of the doctoral thesis must be submitted by the candidate to the graduate unit. The candidate should consult the graduate coordinator regarding requirements and deadlines for submission of material. The graduate unit is responsible for ensuring that one copy of the thesis is brought to the final oral examination.

Following successful completion of the final oral examination, an electronic copy of the final approved version of the thesis and the required form(s) must be submitted to SGS (see section 9.4 Submission of Theses). Confirmation in writing that any corrections or modifications deemed necessary after the defence must also be received by SGS (see General Regulations section 9.3 Doctoral Final Oral Examination). Thesis submission represents the request for graduation. A bound printed copy of the doctoral thesis in its final form may be required by the candidate’s graduate unit. Candidates should consult their unit to determine the format, number, and distribution of such copies.

9.4.2 Master’s Thesis

Students should consult their graduate unit for additional local format requirements, submission deadlines and procedures concerning master’s theses. An electronic copy of the thesis must be submitted to the School of Graduate Studies only after the thesis has been successfully defended and any final corrections have been made. The School of Graduate Studies also requires a copy of the letter from the student’s supervisor confirming completion of any required corrections. Students may also be required to submit a bound copy or copies of the thesis to the relevant graduate unit.
10 Graduation

10.1 Degree Recommendations

When all requirements for a master’s degree or graduate diploma program have been fulfilled, the graduate unit is required to submit a degree (or diploma) recommendation to the School of Graduate Studies indicating that the program has been satisfactorily completed by the student. Students should note that in the case of thesis masters’ programs, degree recommendations are only approved after the thesis and required supporting documents have been submitted to SGS.

When all requirements for a doctoral program have been fulfilled and a final copy of the thesis, as well as required supporting documents, have been submitted to SGS, the student will be recommended for graduation by SGS.

10.2 Convocation Ceremonies

Convocation ceremonies are held twice a year, in the spring and fall. Students who choose to attend a ceremony must attend the ceremony which directly follows the completion of their degree requirements. The Director of Student Services of the School of Graduate Studies submits the names of the graduands to the Office of Convocation, which is responsible for the procedures for the convocation ceremony and the issuance of diplomas.

Students who complete degree requirements by the January deadline can choose to have their degree conferred in absentia in March, where there is no ceremony but rather diplomas are mailed to graduands, or attend the ceremony in June.

Graduation information is available on the University of Toronto website at www.convocation.utoronto.ca.

11 Academic Appeals Policy

11.1 General

Graduate students may appeal substantive or procedural academic matters, including grades, evaluation of comprehensive examinations and other program requirements; decisions about the student’s continuation in any program; or concerning any other decision with respect to the application of academic regulations and requirements to a student. Decisions related to admission to an academic program, including admission to the doctoral program for current master’s students, are not subject to appeal. Appeals (except those under 11.1.1) must be initiated within the student’s home graduate unit (hereafter referred to in this policy as “department”) unless the appeal relates to a course outside the department, in which case it must be initiated in the department in which the course was taken, with notification to the student’s home department chair (hereafter referred to in this policy as “Chair of the department”). In the case of collaborative program core courses, the appeal is pursued through the student’s home department where representation from the collaborative program will be included in the constitution of an appeal committee or hearing.

11.1.1 Exception

The process of academic appeal described in this policy must be followed for all disputes except appeals related to failure of a final doctoral oral examination or related to termination of registration in a program. Such appeals must be made directly to the SGS Graduate Academic Appeals Board (GAAB). These appeals begin at Graduate Appeal Step 3 (section 11.3.3). In some such cases, the chair of GAAB may refer the appeal to the Graduate Department Academic Appeals Committee (GDAAC) for prior consideration and a recommendation to GAAB. The GDAAC does not have the right to overturn a failed final doctoral oral examination result or a termination of registration, but may recommend that such a decision be considered further by GAAB.

11.2 Informal Mediation

At any stage before filing and until the hearing of any appeal with the SGS Graduate
General Regulations

Academic Appeals Board, a student may consult the relevant SGS Vice-Dean for advice and/or informal mediation. The Vice-Dean will serve as informal mediator, attempting to resolve the dispute or clarify issues. Timelines are not affected by mediation. Consultation with the Vice-Dean at an early stage is encouraged. In cases where the Vice-Dean has approved the termination of a student's registration or in cases where perceived or actual conflict of interest is identified, the student will have access to an alternate informal mediator.

11.3 Steps

The overall graduate appeals process is set out in the table below. Students should note the timelines for each stage carefully.

11.3.1 Step 1: Informal

In the case of dispute, students must first attempt to resolve the matter with the instructor or other person whose ruling is in question. Should the matter not be resolved with the instructor, and should the student wish to pursue the matter, the student must discuss the matter with the Graduate Coordinator/Associate Chair (hereafter referred to in this

<table>
<thead>
<tr>
<th>STEPS AND TIMELINES</th>
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</thead>
<tbody>
<tr>
<td><strong>TIMELINE FOR STUDENT ACTION AT EACH STAGE</strong></td>
</tr>
<tr>
<td>See Note A below.</td>
</tr>
<tr>
<td><strong>1. Informal</strong></td>
</tr>
<tr>
<td>a. Student to instructor</td>
</tr>
<tr>
<td>b. Student to Graduate Coordinator</td>
</tr>
<tr>
<td><strong>8 weeks from date of decision being appealed</strong></td>
</tr>
<tr>
<td><strong>8 weeks from written notification of failure of the final PhD oral examination or termination of registration in a graduate program</strong></td>
</tr>
<tr>
<td><strong>3. SGS Appeal</strong></td>
</tr>
<tr>
<td>a. Notice of Appeal to GAAB²</td>
</tr>
<tr>
<td>b. Appeal begins here for students who wish to appeal failure of the final PhD oral examination or termination of registration in a graduate program.</td>
</tr>
</tbody>
</table>

Note A: A student may apply, in writing and with reasons, for an extension of time. Such applications may be made to the Chair of GDAAC for graduate-unit-level appeals or to the GAAB for SGS-level appeals. Any extension is within the discretion of the GDAAC Chair, or the GAAB, as appropriate, where the view is that compelling reasons exist.

Note B: Informal mediation is available via the SGS Vice-Dean at any stage before filing an appeal with the GAAB. Consultation with the SGS Vice-Dean at an early stage is encouraged. In cases where the Vice-Dean has approved the termination of a student’s registration or in cases where perceived or actual conflict of interest is identified, the student will have access to an alternate informal mediator.

Note C: The Chair of the appeal body retains discretion to extend time limits applicable to its response at any stage where, in its view, compelling reasons exist.

1 Graduate Department Academic Appeals Committee
2 Graduate Academic Appeals Board
3 Governing Council Academic Appeals Committee
policy as “Graduate Coordinator”) and/or Chair of the department.

11.3.2 Step 2: Department Appeal

Should such discussions fail to resolve the matter, the student may make a formal appeal in writing to the Graduate Department Academic Appeals Committee (GDAAC). The student must complete a Notice of Appeal to the GDAAC; a copy of this notice is available from the Graduate Coordinator in every graduate department. This form must be completed and delivered to the Chair of the graduate department or the Chair of GDAAC within the specified timeline of eight weeks from the date of the decision under appeal. The Chair of the GDAAC will determine, at his or her sole discretion, whether the appeal will proceed by way of an oral hearing and/or written submissions. In either case, at the conclusion of the hearing and/or review of the written submissions, the GDAAC will make a recommendation to the Chair of the graduate department regarding the merits of the appeal. The Chair of the department will then render the department-level appeal decision. GDAAC guidelines for department chairs are made available to all parties in an appeal.

11.3.3 Step 3: Appeal to GAAB

1. The student may appeal the decision of the Chair of the department by filing a Notice of Appeal to the SGS Graduate Academic Appeals Board (GAAB) within eight weeks of the decision of the chair of the department.
2. Filing a Notice of Appeal to GAAB is the first step for a student who is making an appeal regarding the failure of the final doctoral oral examination or termination of registration in a graduate program.

11.3.4 Step 4: Governing Council Appeal

A decision of the SGS Graduate Academic Appeals Board (GAAB) may subsequently be appealed by a student to the Governing Council’s Academic Appeals Committee, in accordance with its guidelines and procedures. An appeal to this committee shall be commenced by filing a notice of appeal with its Secretary no later than 90 days after the date of the GAAB decision under appeal.

12 Policies and Guidelines

Important School of Graduate Studies policies and guidelines affecting graduate students are included in the SGS Calendar. However, there are numerous additional policies and guidelines affecting graduate studies. These appear on the SGS website at www.sgs.utoronto.ca/governance/policies.htm. Furthermore, University of Toronto-wide policies affecting students are posted at www.governingcouncil.utoronto.ca/policies.htm.

12.1 Graduate Grading and Evaluation Practices Policy

There are currently two grading policies affecting graduate students: the Graduate Grading and Evaluation Practices Policy (GGEPP) and the University Grading Practices Policy (UGPP). Both are under review. The text of the GGEPP is provided here. The university-wide UGPP is accessible at www.governingcouncil.utoronto.ca/policies/grading.htm.

Purpose

The purpose of the Graduate Grading and Evaluation Practices Policy is to ensure that:

1. grading practices in the School of Graduate Studies are consistent with those throughout the university and reflect appropriate academic standards;
2. the evaluation of student performance is made in a fair and objective manner against these academic standards; and
3. grade scales in the School of Graduate Studies are compatible with those in other divisions of the university.

Application of Policy

The policy applies to all individuals and committees taking part in the evaluation of student performance in courses in the School of Graduate Studies.

Amendment to Policy

Amendments to the policy shall be recommended by the School of Graduate Studies Council through the Committee on Academic Policy and Programs to the Academic Board.
Distribution of Policy

A copy of the Graduate Grading and Evaluation Practices Policy shall be published in the SGS Calendar. A copy of the calendar or other document containing the policy shall be given to all students upon initial registration and to all instructors and others involved in the evaluation of student performance.

The policy is in three parts: Part I deals with grades, Part II outlines grading procedures, and Part III is the administrative appendix from the University Grading Practices Policy for undergraduate divisions, available upon request from the Graduate Student Services Office.

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 School of Graduate Studies and the appropriate graduate department, centre, or institute should be consulted.

I.2 Grades for each course shall be assigned with reference to the following meanings:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>Excellent</td>
</tr>
<tr>
<td>A</td>
<td></td>
</tr>
<tr>
<td>A-</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>Good</td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td></td>
</tr>
<tr>
<td>FZ</td>
<td>Inadequate</td>
</tr>
</tbody>
</table>

Wherever an undergraduate course taken by a graduate student is assigned a numerical grade, the mark will be translated into a letter grade according to the following equivalencies:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>90%–100%</td>
</tr>
<tr>
<td>A</td>
<td>85%–89%</td>
</tr>
<tr>
<td>A-</td>
<td>80%–84%</td>
</tr>
<tr>
<td>B+</td>
<td>77%–79%</td>
</tr>
<tr>
<td>B</td>
<td>73%–76%</td>
</tr>
<tr>
<td>B-</td>
<td>70%–72%</td>
</tr>
<tr>
<td>FZ</td>
<td>0–69%</td>
</tr>
</tbody>
</table>

Credit/No Credit Courses

A special category of graduate courses designated in graduate unit listings will be graded Credit (CR) or No Credit (NCR). Such courses are to be offered at the option of the graduate unit and must have the approval of the executive committee of the appropriate Division. CR and NCR evaluations are assigned for courses in which only very broad distinctions in assessing the quality of student performance are judged appropriate.

Grade Scales

I.3 Courses taken for graduate credit are assigned a letter grade according to the School of Graduate Studies usage as follows:
Non-grade Course Reports

The following non-grade course reports may appear on transcripts:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INC</td>
<td>Incomplete: Assigned as a final report by a graduate unit review committee or SGS Vice-Dean on the basis of incomplete coursework in special circumstances (e.g., medical reasons or when there are no grounds for assigning a failing grade). INC carries no credit for the course and is not considered for averaging purposes.</td>
</tr>
<tr>
<td>IPR</td>
<td>In Progress: Assigned by the instructor as the report for a course which is continued in a subsequent session or program. The final grade for the course will appear only once and only for the last enrolment period. IPR carries no credit for the course and is not considered for averaging purposes.</td>
</tr>
<tr>
<td>NGA</td>
<td>No Grade Available: Assigned by the division in the extraordinary case that a grade is not available for one of its students enrolled in a course. It must be replaced by a regular grade assigned by the instructor or by another symbol assigned during the divisional review. It carries no credit for the course and is not considered for averaging purposes.</td>
</tr>
<tr>
<td>SDF</td>
<td>Standing Deferred: Assigned by a graduate unit review committee to a student who has been granted an extension for the completion of coursework beyond the SGS deadline for completion of coursework, pending receipt from the instructor of a final course report. A final course report is due no later than the SGS deadline for completion of coursework and grade submission following the original one for the course. If, by that date, a final grade is not available and the student has not submitted the outstanding coursework, then the report of SDF will be replaced by a final report of INC. SDF carries no credit for the course and is not considered for averaging purposes.</td>
</tr>
<tr>
<td>TRF</td>
<td>Program Transfer: Assigned by the School of Graduate Studies to a continuing research/seminar course begun but not completed in the first program and not required in the new program to which the student has been officially transferred.</td>
</tr>
<tr>
<td>WDR</td>
<td>Withdrawal without academic penalty: Assigned by the graduate unit review committee, when there are extenuating circumstances, upon approval of the student’s request for late withdrawal from a course. It carries no credit for the course and is not considered for averaging purposes.</td>
</tr>
</tbody>
</table>

All grade revisions must be submitted to the School of Graduate Studies according to the SGS revised grade procedures.

1.4 A table of correspondence and a translation table are defined in the appendix for each letter grade scale included in the University Grading Practices Policy in order to allow the conversion, when necessary, of a grade assigned from one scale to the corresponding grade in the other.

Grade Reporting

1.5 All letter grades assigned to graduate students enrolled in School of Graduate Studies courses shall be from the same scale, but, where approved, the CR/NCR scale may also be used. The grades assigned in a course must all be from the same scale except that non-SGS students in graduate courses will be assigned grades from the refined letter grade scale or the numerical scale of marks as found in Part III.

1.6 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).

a. 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.

b. 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.

1.7 A list of the currently approved non-grade symbols and their meanings is given in the appendix of the University Grading Practices Policy. Those used by the School of Graduate Studies appear in the table above and have in some cases been modified for graduate courses.

1.8 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 the School of Graduate Studies must indicate
the relationships between the graduate grade scale, the grade meanings, the basic letter grade scale, and the scale of 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

Course Procedures

II.1 To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, the School of Graduate Studies has adopted these regulations governing course procedures.

a. As early as possible in each course (and no later than the School of Graduate Studies’ last date for course enrolment), the instructor shall make available to the class and shall file with the department, centre, or institute the method(s) by which student performance shall be evaluated. This information should describe the method(s) (essays, tests, examinations, seminar presentations, etc.), the relative weight of these method(s) in relation to the overall grade, and the timing of each major evaluation. Any penalties for late completion of and for failure to complete work, should be announced at the time the instructor makes available to the class the method(s) by which student performance shall be evaluated.

b. After the method(s) 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 department, centre, or institute.

c. The relative value of each part of an examination shall be indicated to the student at the time of the examination. In the case of a written examination, the value of each part shall be indicated on the examination paper.

d. Commentary, as appropriate in the instructor’s judgement, on assessed work other than final examinations and time for discussion of it shall be made available to students.

Commentary, as appropriate in the instructor’s judgement, on final examinations and time for discussion of it shall be made available to students at their request.

e. Grades shall be recommended by the instructor in reference to the approved grade scales on the basis of each student’s performance.

Examinations

II.2

a. Students should be provided with clear information about the expectations of the examiners, including the types of anticipated questions.

b. Students should have the opportunity to review their answers in written examinations within four months of the reporting of the grades. A recovery fee may be set to cover administrative costs, including photocopying.

c. The School of Graduate Studies has developed a procedural guide for the re-reading, by an external reviewer, of examinations written for courses by graduate students. It is to be used only when departmental appeal mechanisms have been exhausted. Costs of preparing materials for the external reader are shared between the graduate unit and the student.

Other Departmental Assessments

II.3

Departments, centres, or institutes may expect graduate students to complete requirements for a degree other than coursework, such as departmental examinations, language examinations, fieldwork, or internships. Graduate students should be given a written statement describing the evaluation processes. It is appropriate that departmental evaluations of performance in these settings should accord with the principles enunciated in the other sections of this Graduate Grading and Evaluation Practices Policy, and that the effect upon deadlines of disruptions to academic programs, as described below, be taken into account. Students should also be informed of procedures for appeal.
Grade Review and Approval Process

II.4  

a. Grades shall be recommended by the instructor to the Chair or Director (or designate) of the graduate department, centre, or institute. The grades shall then be reviewed and approved following the graduate unit’s procedure. Grades shall not be reported or released to students as official until this review procedure has been carried out. Normally, the graduate unit’s review and approval by the Chair or Director constitutes final approval of grades, under the authority of the Dean of the School of Graduate Studies. Grades may be changed on appeal by the student, following the procedures of the School of Graduate Studies. Decisions regarding these matters will be made by the chair of the department.

b. 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.

c. The graduate unit’s review of grades may result in the request for clarification of the evaluation methods used, or of apparent anomalies in the list of grades in a course. In the case of anomalies, the chair or director, or designate, must discuss the grade(s) with the instructor; no grade should be changed without such discussion. In the event the matter is not settled to the mutual satisfaction of the chair or director, or designate, and the instructor, the matter shall be referred to the Vice-Dean of the School of Graduate Studies. If it is not settled at that level it should be referred to the Dean of the School of Graduate Studies, whose authority for the assigning and reporting of grades is final (subject only to the formal SGS appeals procedures).

d. At any time, the School of Graduate Studies may request an explanation of any grades for a course that appear not to be based on the approved grade scales or otherwise appear anomalous in reference to this policy.

Exceptional Circumstances and Academic Appeals

II.5  

a. Students with health problems or other personal circumstances that may adversely affect their performance in or their ability to complete coursework, examinations, or other departmental assessments may request special consideration. Requests, supported by a medical certificate or other appropriate evidence, should be submitted to the instructor or the Coordinator of Graduate Studies as soon as possible or within 48 hours of the deadline or date of assessment. The medical certificate must confirm the student was adversely affected by the health problems and must show the dates of illness and that the physician was consulted at the time of the illness.

b. Students may on occasion dispute substantive or procedural academic matters, including grades. The recommended route for the resolution of such disputes is to discuss the matter first with the instructor or the person whose ruling is in question. If the dispute persists, the student may wish to pursue a formal academic appeal; see General Regulations section 11 Academic Appeals Policy.

Conflict of Interest

II.6  

When 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 director, or designate, who shall take steps to ensure fairness and objectivity.

Procedures in the Event of Disruption

II.7  

a. In the event of disruption of the graduate academic program, the following principles shall apply:

i. the academic integrity of academic programs must be honoured; and

ii. students must be treated in a fair manner, recognizing their freedom of choice to attend class and to use academic facilities, or not, without penalty. Decisions regarding these matters will be made by the Chair of the department.
b. The Vice-President and Provost, or the Academic Board, shall declare when a disruption of the graduate 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.

c. Instructors responsible for courses that are disrupted shall determine, as the disruption proceeds, whether any changes to classroom procedures are needed to complete the course.

d. Changes in classroom procedures should, where possible, first be discussed with students prior to the class meeting in which a vote is to be taken by the students present on the proposed changes. Changes agreed upon unanimously should be forwarded to the chair or director, or designate, with a report on the attendance at the class.

If unanimity on changes has not been arrived at, or where a vote is not feasible, the instructor, after the class discussion, will provide the chair or director, or designate, with his or her recommendation, along with the results of any classroom votes. The Chair or Director (or designate) shall then make a decision.

e. If classes are not able to convene, the instructor, with the prior approval of the Chair or Director (or designate) shall make changes deemed necessary to the classroom procedures.

f. In the absence of the instructor such changes will be made by the Dean in consultation with the Chair or Director (or designate) and with the approval of the Provost.

g. If courses are to be cancelled, approval of the SGS Council is required. If the council cannot meet, the approval of the Dean—or in the absence of the Dean, the approval of the Provost—is required.

h. 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 office of the graduate unit, reporting to SGS Council, as well as listing in the campus press. When classes resume, students must be informed, at class, of any changes made during the disruption.

i. If 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.

j. If students have not attended classes that are meeting, they nonetheless remain responsible for the coursework and for fulfilling course requirements. However, where possible, reasonable extension of deadlines for course requirements, or provision for make-up tests, shall be made. Reasonable alternative access to material covered should be provided.

k. A student who feels, owing to his or her special circumstances, that changes to classroom procedures have unreasonably affected his or her grade may appeal the grade following procedures for appeal set out above.

Part III: Administrative Appendix

Available at www.governingcouncil.utoronto.ca/policies/grading.htm.

12.2 Intellectual Property

The university believes that all contributors to the successful realization of new technologies and knowledge should share fairly and appropriately in the benefits. For details and further information, visit www.research.utoronto.ca/for-researchers-administrators/applying-for-funding/intellectual-property/.

12.3 Research Ethics

The university’s Policy on Ethical Conduct in Research requires each academic division to formulate its own guidelines. The divisional guidelines apply to graduate students enrolled in graduate units within those faculties. See also SGS Student Guide on Ethical Conduct of Research Involving Human Subjects on the SGS website at www.sgs.utoronto.ca/governance/policies/ethicresearch.htm.
12.4 Policy on Academic Sanctions for Students Who Have Outstanding Obligations to the University

Academic sanctions are applicable to any student who has an outstanding obligation to the university. Recognized obligations are as follows:

1. tuition fees
2. academic and other incidental fees
3. residence fees and other residence charges
4. library fines
5. bookstore accounts
6. loans made by colleges, Faculties, or the university
7. health service accounts
8. unreturned or damaged instruments, materials and equipment
9. orders for the restitution, rectification, or the payment of damages, fines, bonds for good behaviour, and requirement of public service work imposed under the authority of the Code of Student Conduct.

The following academic sanctions will be imposed on students who have outstanding recognized financial obligations to the university.

1. Statements of results or official transcripts of record or both will not be issued.
2. The university will not release the official document (called the diploma) which declares the degree earned, nor provide oral confirmation or written certification of degree status to external enquirers. Indebted graduands will be allowed to walk on stage and have their names appear on the convocation program.
3. Registration will be refused to a continuing or returning student. Payments made by continuing or returning students shall be applied first to outstanding university debts, and second, to current fees.

For a complete online text of this policy, see the Governing Council website: www.governingcouncil.utoronto.ca/policies/sanction.htm.

12.5 Code of Behaviour on Academic Matters

The Governing Council of the University of Toronto has approved a Code of Behaviour on Academic Matters applying to members of the university. The Code of Behaviour on Academic Matters addresses the responsibilities of all parties to the integrity of the teaching and learning experience. It concerns the accountability of faculty members and students as they cooperate in all phases of this relationship. Honesty and fairness must inform these activities, the foundation of which is mutual respect for the aims of education and for those ethical principles which characterize the pursuit and transmission of knowledge within the university.

The code addresses offences, procedures, sanctions: more information appears in three appendices. The Code is enforced by Divisional Deans, the Provost, and the University Disciplinary Tribunal.

In cases involving graduate students, the divisional dean is the Dean of the School of Graduate Studies.

The full text of the Code of Behaviour on Academic Matters is available on the University of Toronto website at www.governingcouncil.utoronto.ca/policies/behaveac.htm.

12.6 Policy and Procedures: Sexual Harassment

Harassment in any situation is reprehensible. In particular, within the university community it fosters a hostile or unfair environment which counteracts the spirit of cooperation and education. To guard against sexual harassment, the Governing Council of the University of Toronto has approved a Policy and Procedures: Sexual Harassment, which protects students, faculty, and staff from sexual harassment within the university community. All complaints will be guided by a spirit of fairness to each party and insures a fair and impartial hearing. Under the policy, complainants have the right to seek a remedy and respondents have the right to know both the allegations and the accuser. The highest standards of confidentiality are maintained in order to protect any party against unsubstantiated claims which might result in harm or malicious gossip. The full text of the policy and procedures is available at www.governingcouncil.utoronto.ca/policies/sexual.htm.

12.7 Code of Student Conduct

Students have an obligation to make legal and responsible decisions concerning their conduct. The university has no gen-
eral responsibility for the moral and social behaviour of its students. In the exercise of its disciplinary authority and responsibility, the university recognizes that students are free to organize their own personal lives, behaviour, and associations subject only to the law and to university regulations that are necessary to protect the integrity and safety of university activities, the peaceful and safe enjoyment of university housing by residents and neighbours, or the freedom of members of the university to participate reasonably in the programs of the university and in activities in or on the university’s premises.

Non-academic offences are defined in the university’s Code of Student Conduct. The code addresses offences, procedures, interim conditions and measures, and sanctions.

The full text of the Code of Student Conduct is available on the University of Toronto website at www.governingcouncil.utoronto.ca/policies/studentc.htm.

12.8 Policy on Access to Student Academic Records

Academic records of students are ultimately the property of the university; it is the responsibility of the university to establish overall university policy in this area. The Policy on Access to Student Academic Records establishes university-wide aims, objectives, criteria, and procedures that apply to the academic records of students.

The Policy ensures that students, alumni, and former students are allowed as great a degree of access to their own academic records as is academically justifiable and administratively feasible. A student’s right to privacy in relation to his or her academic records is safeguarded as far as both internal university access and external public access are concerned. The Policy calls for basic university-wide consistency in the kinds of information collected, recorded, filed and made available.

The complete Policy on Access to Student Academic Records is available on the University of Toronto website at http://www.governingcouncil.utoronto.ca/policies/Guidelines_Concerning_Access_to_Student_Academic_Records.

12.9 Policy on Official Correspondence with Students

The university and its divisions may use the postal mail system and/or electronic message services (e.g., electronic mail and other computer-based online correspondence systems) as mechanisms for delivering official correspondence to students.

Official correspondence may include, but is not limited to, matters related to students’ participation in their academic programs, important information concerning university and program scheduling, fees information, and other matters concerning the administration and governance of the university.

12.9.1 Postal Addresses and Electronic Mail Accounts

Students are responsible for maintaining and advising the university—via the university’s student information system (currently ROSI)—of a current and valid postal address as well as the address for a university-issued electronic mail account that meets a standard of service set by the Vice-President and Provost.

Failure to do so may result in a student missing important information and will not be considered an acceptable rationale for failing to receive official correspondence from the university.

12.9.2 University Rights and Responsibilities Regarding Official Correspondence

The university provides centrally supported technical services and the infrastructure to make electronic mail and/or online communications systems available to students. University correspondence delivered by electronic mail is subject to the same public information, privacy and records retention requirements and policies as are other university correspondence and student records. The university’s expectations concerning use of information and communication technology are articulated in the guidelines on Appropriate Use of Information and Communication Technology, available on the website of the Office of the Vice-President and Provost at www.provost.utoronto.ca/policy/use.htm.
12.9.3 Students’ Rights and Responsibilities Regarding Retrieval of Official Correspondence

Students are expected to monitor and retrieve their mail, including electronic messaging account(s) issued to them by the university, on a frequent and consistent basis. Students have the responsibility to recognize that certain communications may be time-critical. Students have the right to forward their university-issued electronic mail account to another electronic mail service provider address but remain responsible for ensuring that all university electronic message communication sent to the official university-issued account is received and read.

To read an online version of this policy, visit www.governingcouncil.utoronto.ca/policies/studentemail.htm.

12.10 Safety in Field Research

In the normal course of university-related life, university members may participate in a wide range of activities taking place at locations away from the university campuses. Some of these activities include field research, field placements, and internships.

The University of Toronto Policy on the Framework on Off-Campus Safety is designed to provide university staff and faculty involved in the planning and execution of university-related off-campus activities with a set of core planning principles with respect to safety.

The full policy is available on the University of Toronto website at www.governingcouncil.utoronto.ca/Assets/Governing+Council+Digital+Assets/Policies/PDF/ppmay191988.pdf.

Students are also encouraged to review the Guidelines for Safety in Field Research produced by the Office of Environmental Health and Safety at www.ehs.utoronto.ca/resources/manindex/policies/fieldres.htm.

12.11 Statement on Appropriate Use of Information and Communication Technology

The University of Toronto provides guidelines on the appropriate use of information and communication technology (ICT) within the university community. ICT resources are made available for all employees, students, and other members of the university community, but remain the property of the university. Users are expected to limit their use to the performance of university-related activities, although a reasonable allowance will be made for personal use. Users should not have an expectation of complete privacy in using the university’s ICT and related services.

The full text of the guidelines is posted on the Provost’s website at www.provost.utoronto.ca/policy/use.htm.

12.12 Statement on Human Rights

Acknowledging its fundamental and distinctive commitment to freedom of thought, inquiry, and expression, the University of Toronto affirms its commitment to the values of equal opportunity, equity, and social justice. In this affirmation, the university:

1. acknowledges that it conducts its teaching, research and other activities in the context of a richly diverse society;
2. recognizes that the attainment of excellence in pursuit of its mission is furthered by the contribution made by persons reflecting this rich diversity;
3. acts within its purview to prevent or remedy discrimination or harassment on the basis of race, gender, sexual orientation, age, disability, ancestry, place of origin, colour, ethnic origin, citizenship, creed, marital status, family status, receipt of public assistance, or record of offence;
4. acts conscientiously in keeping with its own policies and existing legislation related to human rights, such as its Code of Behaviour on Academic Matters, its Policies and Procedures: Sexual Harassment, its Employment Equity Policy and the Human Rights Code of the Province of Ontario.
The University of Toronto offers graduate programs leading to doctoral and master’s degrees. Numerous degree types are offered in a variety of programs in multiple graduate units. Degree types that are specific to one graduate program are listed below; however, details are found in each program entry; see Graduate Programs by Graduate Unit, referred to as “graduate unit entries” below.

1 Doctoral Degrees

The University of Toronto offers programs of study leading to four doctoral degrees. Degrees offered in multiple programs are listed first, followed by degrees specific to one graduate program.

1.1 Doctor of Philosophy (PhD)

The PhD is offered in a variety of programs in multiple graduate units. For specific admission and program requirements, consult graduate unit entries. The Graduate Education Council of the School of Graduate Studies has recommended that all graduate units offering the PhD design a four-year program that can be completed on a full-time basis by a student who has a master’s degree in a discipline deemed appropriate to the intended field of study. Where graduate units are aware that it may be difficult for students to complete their PhD programs within four years, they have been asked to include a statement to that effect in their calendar entries.

1.1.1 Admission Requirements

1.1.1.1 Four-Year PhD Program

Students admitted to this program require an appropriate master’s degree with at least B+ standing from a recognized university in a discipline deemed appropriate to the intended field of study.

A student who is admitted on condition that the requirements for an acceptable master’s degree at another university are completed may be permitted conditional registration, unless this is excluded by the terms of the letter of admission. A student who is conditionally registered must submit to the graduate unit, not later than January 31 of the first year of enrolment, official verification of completion of the requirements for the master’s degree. If verification is not submitted by that date, additional requirements may
be added to the PhD program. See further information in the Admission Regulations section of General Regulations.

1.1.1.2 Five-Year PhD Program (Referred to as “Direct-Entry”)  
Students admitted to this program, where offered, require an appropriate bachelor’s degree with at least A- standing from a recognized university in courses in the relevant discipline. Students who hold a master’s degree in another discipline or require further preparation also normally would be admitted to this program.

1.1.1.3 Flexible-Time PhD Program Option  
Applicants may apply to a flexible-time PhD program option in a graduate unit offering such an option that has been approved through University of Toronto governance. Applications to flexible-time PhD program options are subject to the SGS General Regulations and Degree Regulations and must meet the same admission requirements as applicants to the full-time PhD program. In addition, applicants to the flexible-time PhD program option must demonstrate that they are “practicing professionals”, that is, they are active professionals who are engaged in work activities that may include consulting, community organizing, self-employment, contractual work, or equivalent. This category may include recently retired individuals who maintain professional engagement.  
Applicants to the flexible-time PhD program option must demonstrate:  
1. That the research and proposed program of study is related to the applicant’s professional work and vice-versa;  
2. That they will continue their professional activities while registered in the program.  
Admission to this option is subject to availability of a supervisor.

1.1.2 Transfers  
1.1.2.1 Master’s to PhD  
A student may be recommended for transfer from a master’s program to a PhD program. In such cases, the student will transfer to a five-year PhD with the years in the master’s program being counted as part of the PhD program. The total number of courses required for the PhD is the sum of the normal master’s and PhD course requirements unless otherwise specified by the graduate unit.

1.1.2.2 PhD to Master’s  
Students transferring from the PhD to the master’s program must complete all of the normal master’s degree requirements, or their equivalent, in order to be awarded the master’s degree. These transfers are made on the recommendation of the graduate unit and must be approved by the SGS Vice-Dean, Students. A second University of Toronto master’s degree of the same name will not be conferred unless it is undertaken in a different field of study from the first. Students who transfer from the PhD to the master’s program will not be permitted to transfer subsequently to the PhD program within the same graduate unit unless approved by the SGS Admissions and Programs Committee.

1.1.3 Program Requirements  
PhD students must register for every successive session, including summers, on a full-time basis following the first session of registration unless granted a leave of absence. The minimum period of registration is one academic year, that is, three consecutive sessions. All PhD students are subject to rules and regulations outlined in the General Regulations section, including Good Academic Standing requirements, in addition to these PhD degree requirements and those of the graduate unit in which the student is registered. See also 1.1.3.8 Flexible-Time PhD Program Option, below.

1.1.3.1 Approval  
The graduate unit must approve a student’s program of advanced study and research.

1.1.3.2 Program  
Specific program requirements are set by the graduate units and are found in their respective entries. The thesis topic and the name of the supervisor must be submitted by the middle of the first session of the second year. Graduate units may, at their discretion, require an earlier date.
1.1.3.3 **Language Requirement**

The student must have an adequate knowledge of such language or languages, other than English, as are required by the graduate unit and the degree program. (See individual graduate unit entries for specific requirements.)

Testing and certification of languages may be administered by the appropriate language department or by the student’s own graduate unit.

The graduate unit in which the student is registered is responsible for ensuring that an acceptable certificate of language competence is deposited in the official student file.

1.1.3.4 **Achieving Candidacy: Requirements and Time Limit**

See General Regulations, Good Academic Standing section for detailed requirements.

1.1.3.5 **Thesis**

The candidate, through the graduate unit, shall present a thesis embodying the results of original investigation, conducted by the candidate, on the approved topic from the major field. The thesis shall constitute a significant contribution to the knowledge of the field and must be based on research conducted while registered for the PhD program.

A thesis should have a coherent topic with an introduction presenting the general theme of the research and a conclusion summarizing and integrating the major findings. Nonetheless, it may contain a collection of several papers. The collection of papers may be expanded or supplemented by unpublished material, scholarly notes, and necessary appendices. In all theses, pagination should be continuous; there should be a common table of contents and an integrated bibliography for the whole thesis. A thesis must be prepared in a standard format (see National Library guidelines and Guidelines for the Preparation of Theses).

The thesis should normally be written in English, but with the permission of the School of Graduate Studies, a graduate unit may permit or require students in that unit to write the thesis in French.

In Division I, the Humanities, permission may be given for a thesis to be written in a language other than English or French when the language has been approved for use in theses by the graduate unit concerned.

Before such permission can be granted, the graduate unit chair must certify in writing to the School of Graduate Studies that the candidate has passed a supervised essay-type examination, written in English, that demonstrates his or her proficiency in writing correct and idiomatic English prose. A supplementary abstract of about 5,000 words in English or French must form part of a thesis that is written in a language other than English or French, and no language other than English or French may be used for the conduct of final doctoral examinations.

See also General Regulations sections Doctoral Supervision and Submission of Theses.

1.1.3.6 **Final Oral Examination**

All students must defend a thesis at a final oral examination organized by the graduate unit with the cooperation of SGS. See Doctoral Final Oral Examination in General Regulations for detailed requirements and deadlines.

1.1.3.7 **Time for Completion of Degree**

All requirements must be completed within six years from first enrolment for the four-year PhD program and within seven years for the five-year PhD program. In exceptional circumstances, a candidate who has failed to complete all the requirements for the degree within this period may be considered for a maximum of four one-year extensions. See Extension of Time for Completion of Degree Requirements, Doctoral Students in General Regulations.

PhD students who have not completed the degree requirements before the time limit for the degree or by the end of the extension period may not enrol further.

For flexible-time PhD program option, see details below.

1.1.3.8 **Flexible-Time PhD Program Option**

Graduate units may offer a flexible-time PhD program option, approved by University of Toronto governance. Such a program option is offered where there is sufficient demand by practicing professionals in related fields. The design and delivery of a flexible-time PhD program option permits continued employment by the student in areas related to the student’s field of research, except for short specified periods of time. In these
programs, theory and praxis uniquely engage and inform each other. See further information in Degree Regulations, Admission Requirements section 1.1.1.3 Flexible-Time PhD Program Option.

The flexible-time PhD program option differs from the full-time PhD program only in design and delivery. Students in a flexible-time PhD program option will register full-time during the first four years and part-time during subsequent years in the program. Students are required to be registered for every successive session, including summers, following the first session of registration unless granted a leave of absence. Each graduate program offering a flexible-time PhD option will identify a normal program length for students in the option which normally will be five or six years.

The time limit, between six to eight years, will be established through the departmental regulations. Transfers between the full-time PhD program and the flexible-time PhD program option are not permitted. Students in the flexible-time option must satisfy the SGS General Regulations and Degree Regulations in the SGS Calendar, including good academic standing supervision and candidacy regulations.

1.2 Doctor of Education (EdD)

The EdD program is offered in a variety of programs in multiple graduate units. The EdD program is designed to provide opportunities for more advanced study for those already engaged in a career related to education.

All students are subject to rules and regulations outlined in the General Regulations section, including Good Standing requirements, in addition to these degree requirements and those of the graduate unit in which the student is registered. See specific admission and program requirements in the Graduate Programs section.

All students must defend a thesis at a final oral examination organized by the graduate unit with the cooperation of SGS. See Doctoral Final Oral Examination in General Regulations for detailed requirements and deadlines.

In exceptional circumstances, a candidate who has failed to complete all the requirements for the degree within the time limit of six years may be considered for a maximum of four one-year extensions. See Extension of Time for Completion of Degree Requirements in General Regulations.

Students who have not completed the degree requirements before the six-year time limit or by the end of the extension period may not enrol further.

1.2.1 Admission Requirements

1. An MEd or MA in Education, or its equivalent from a recognized university, in the same area of specialization proposed at the doctoral level, completed with standing equivalent to a B+ or better.

2. Successful professional experience in education, or in a relevant field.

A student may be enrolled in one of the following graduate units:
- Adult Education and Counselling Psychology
- Sociology and Equity Studies in Education
- Theory and Policy Studies in Education

1.2.2 Program Requirements

For specific program and registration requirements, see the Graduate Programs section of this calendar.

1. Normally, a minimum of one Fall Session and one Winter Session of full-time study must be taken consecutively, i.e., Fall Session (September to December) followed by Winter Session (January to April) or Winter Session (January to April) followed by Fall Session (September to December).

2. In most programs, students may begin their studies on a part-time basis.

3. Eight half-courses are required for students who have a MEd or MA degree or the equivalent in the same area of specialization proposed at the doctoral level. An eight half-course EdD program should include at least four half-courses in the home graduate unit except as otherwise stated in graduate unit program descriptions.

4. Students in some graduate programs will be required to take a comprehensive examination. Consult specific graduate-unit entry for details.

5. A thesis embodying the results of original investigation conducted by the student under the direction of an OISE thesis committee.

6. Students undergo an SGS final oral examination on the content and implications of the thesis, to determine the adequacy
2 Master's Degrees

The University of Toronto offers programs of study leading to the master's degrees listed below. All master's students are subject to rules and regulations outlined in the General Regulations section, including applicable good standing requirements, in addition to the degree requirements specified in the relevant graduate unit entry. Numerous degree types are offered in a variety of programs in multiple graduate units. Degrees offered in multiple graduate programs are listed first, followed by degrees specific to one graduate program.

2.1 Degrees in Multiple Graduate Programs

2.1.1 Master of Arts (MA)

The MA program is offered in a variety of programs in multiple graduate programs.

2.1.1.1 Admission Requirements

1. Applicants must hold an appropriate bachelor's degree with high academic standing from a recognized university.
2. If the master's program is not a continuation of a course of study previously pursued as an undergraduate, or if there are deficiencies in meeting graduate unit admission requirements, prerequisite work may be required and the usual length of program may be extended.

2.1.1.2 Program Requirements

1. Under the direction of a graduate unit, a student in this university must pursue a program of advanced study approved by the graduate unit.
2. All requirements for the degree of MA must be satisfactorily completed within 3 years (full-time)/6 years (part-time) from first enrolment.

Admission and program requirements may vary; consult the individual graduate unit entry for details.

2.1.2 Master of Science (MSc)

The MSc program is offered in a variety of programs in multiple graduate units.
2.1.2.1 Admission Requirements
1. Applicants must hold an appropriate bachelor's degree with high academic standing from a recognized university.
2. If the master's program is not a continuation of a course of study previously pursued as an undergraduate, or if there are deficiencies in meeting graduate unit admission requirements, prerequisite work may be required and the minimum length of program may be extended.

2.1.2.2 Program Requirements
1. Under the direction of a graduate unit, a student in this University will pursue a program of advanced study approved by the graduate unit.
2. All requirements for the degree of MSc must be satisfactorily completed within 3 years (full-time)/6 years (part-time) from first enrolment.

Admission and program requirements may vary; consult the individual graduate unit entry for details.

2.1.3 Master of Applied Science (MASc)
The MASc program is offered in a variety of programs in multiple graduate units. The MASc degree is intended primarily for those who wish to prepare for a career in research and/or plan to continue their graduate studies through the PhD degree.

2.1.3.1 Admission Requirements
1. Applicants must hold the degree of Bachelor of Applied Science or an equivalent degree in engineering. An applicant having an appropriate bachelor's degree in science or applied mathematics may be admitted as a student by the graduate unit concerned.

A student may be enrolled in one of the following graduate units:
- Aerospace Science and Engineering
- Biomaterials and Biomedical Engineering
- Chemical Engineering and Applied Chemistry
- Civil Engineering
- Electrical and Computer Engineering
- Geology
- Materials Science and Engineering
- Mechanical and Industrial Engineering

2.1.3.2 Program Requirements
1. Under the direction of a graduate unit, a student in this University must pursue a program of advanced study approved by the graduate unit. Normally the program will include not more than three full-year courses or equivalent and the preparation of a research thesis, the latter being the major requirement.
2. All requirements for the degree of MASc must be satisfactorily completed within 3 years (full-time)/6 years (part-time) from first enrolment.

Admission and program requirements may vary; consult the individual graduate unit entry for details.

2.1.4 Master of Education (MEd)
The MEd program is offered in a variety of programs in multiple graduate units.

2.1.4.1 Admission Requirements
1. Applicants must hold an appropriate bachelor's degree from a recognized university, completed with standing equivalent to a mid-B or better in the final year.
2. A year of professional education for teaching, or the equivalent in pedagogical content, is helpful.
3. At least one year of relevant, successful, professional experience.

A student may be enrolled in one of the following graduate units:
- Adult Education and Counselling Psychology
- Curriculum, Teaching and Learning
- Human Development and Applied Psychology
- Sociology and Equity Studies in Education
- Theory and Policy Studies in Education

2.1.4.2 Program Requirements
The minimum program requirements for the MEd degree are as follows:
1. Under the direction of a graduate unit, a student undertakes one of four options to complete the program.
Option I—Coursework Plus Comprehensive
- 5.0 full-course equivalents (FCEs)
  plus a comprehensive examination/requirement

Option II—Research Project
- 4.0 full-course FCEs plus a research project or a Major Research Paper

Option III—Thesis
- 3.0 FCEs plus a thesis

Option IV—Coursework-Only
- 5.0 FCEs

2. The MEd degree program requires that a minimum of half of the courses must be taken in the home department unless otherwise specified by the department.

3. All requirements for the degree must be satisfactorily completed within 3 years (full-time)/6 years (part-time) from first enrolment.

   Admission and program requirements may vary; consult the individual graduate unit entry for details.

2.1.5 Master of Engineering (MEng)

The MEng program is offered in a variety of programs in multiple graduate units. The MEng degree is intended primarily for those who wish to pursue advanced study at the master’s level which is especially suited for professional practice.

2.1.5.1 Admission Requirements

1. Applicants must hold the degree of Bachelor of Applied Science or an equivalent degree in engineering. An applicant having an appropriate bachelor’s degree in science or applied mathematics may be admitted as a student by the graduate unit concerned.

   A student may be enrolled in one of the following graduate units:
   - Aerospace Science and Engineering
   - Chemical Engineering and Applied Chemistry
   - Civil Engineering
   - Electrical and Computer Engineering
   - Materials Science and Engineering
   - Mechanical and Industrial Engineering

2.1.5.2 Program Requirements

1. Under the direction of a graduate unit, a student must pursue a program of study approved by the graduate unit. The program will be equivalent in weight to full-time study for at least two sessions (eight months), and may include a project in addition to lecture and laboratory courses.

2. There is no general residence requirement for the degree. However, a period of residence may be required, depending on the individual student’s program and experience. This required period will be as recommended by the graduate unit and approved by the School of Graduate Studies, but must not exceed two sessions.

3. The degree program must be completed within 3 years (full-time)/6 years (part-time) from first enrolment.

   Admission and program requirements may vary; consult the individual graduate unit entry for details.

2.1.6 Master of Health Science (MHSc)

The MHSc program is offered in a variety of programs in multiple graduate units. Admission and program requirements vary; consult the individual graduate unit entry for details.

- Biomedical Engineering
- Health Policy, Management and Evaluation
- Medical Science
- Speech-Language Pathology

2.2 Degrees in Single Graduate Programs

Each of the following degrees is offered in an individual graduate unit and program. Admission and program requirements for the degree program are outlined in the applicable entry in the Graduate Programs section of this calendar unless otherwise noted. All master’s students are subject to rules and regulations outlined in the General Regulations section, including good standing requirements, in addition to the degree requirements specified in the relevant graduate unit entry.

2.2.1 Master of Architecture (MArch)

See Architecture, Landscape and Design entry.
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| **2.2.2 Master of Biotechnology (MBiotech)**  
  See Biotechnology entry in Joint Programs. |
| **2.2.3 Master of Business Administration (MBA)**  
  Admission and program requirements for the following degree programs are outlined in the Management entry in Degree and Diploma Programs by Graduate Unit.  
  - Master of Business Administration in Management  
  - Executive Master of Business Administration in Management  
  - Global Executive Master of Business Administration in Management |
| **2.2.4 Master of Engineering in Design and Manufacturing (MEngDM)**  
  See Advanced Design and Manufacturing entry in Joint Programs. |
| **2.2.5 Master of Environmental Science (MEnvSc)**  
  See Physical and Environmental Sciences entry. |
| **2.2.6 Master of Finance (MF)**  
  See Management entry. |
| **2.2.7 Master of Financial Economics (MFE)**  
  See Financial Economics entry in Joint Programs. |
| **2.2.8 Master of Forest Conservation (MFC)**  
  See Forestry entry. |
| **2.2.9 Master of Global Affairs (MGA)**  
  See Global Affairs entry. |
| **2.2.10 Master of Health Informatics (MHI)**  
  See Health Policy, Management and Evaluation entry. |
| **2.2.11 Master of Industrial Relations and Human Resources (MIRHR)**  
  See Industrial Relations and Human Resources entry. |
| **2.2.12 Master of Information (MI)**  
  See Information entry. |
| **2.2.13 Master of Landscape Architecture (MLA)**  
  See Architecture, Landscape and Design entry. |
| **2.2.14 Master of Laws (LLM)**  
  Admission and program requirements for the following degree programs are outlined in the Law entry in Degree and Diploma Programs by Graduate Unit.  
  - Master of Laws  
  - Global Professional Master of Laws |
| **2.2.15 Master of Management and Professional Accounting (MMPA)**  
  See Professional Graduate Programs Centre (UTM) entry. |
| **2.2.16 Master of Management of Innovation (MMI)**  
  See Health, Policy, Management and Evaluation entry. |
| **2.2.17 Master of Mathematical Finance (MMF)**  
  See Mathematical Finance entry. |
| **2.2.18 Master of Museum Studies (MMSt)**  
  See Information entry. |
2.2.19 Master of Music (MMus)
See Music entry.

2.2.20 Master of Nursing (MN)
See Nursing Science entry.

2.2.21 Master of Public Health Science (MPH)
See Public Health Sciences entry.

2.2.22 Master of Public Policy (MPP)
See Public Policy and Governance entry.

2.2.23 Master of Science in Applied Computing (MScAC)
See Computer Science entry.

2.2.24 Master of Science in Biomedical Communications (MScBMC)
See Medical Science entry.

2.2.25 Master of Science in Community Health (MScCH)
See Public Health Sciences entry.

2.2.26 Master of Science in Forestry (MScF)
See Forestry entry.

2.2.27 Master of Science in Occupational Therapy (MScOT)
See Occupational Science and Occupational Therapy entry.

2.2.28 Master of Science in Physical Therapy (MScPT)
See Physical Therapy entry.

2.2.29 Master of Science in Planning (MScPl)
See Geography entry.

2.2.30 Master of Social Work (MSW)
See Social Work entry.

2.2.31 Master of Studies in Law (MSL)
See Law entry.

2.2.32 Master of Teaching (MT)
See Curriculum, Teaching, and Learning entry.

2.2.33 Master of Urban Design (MUD)
See Architecture, Landscape and Design entry.

2.2.34 Master of Urban Design Studies (MUDS)
See Geography entry.

2.2.35 Master of Visual Studies (MVS)
See Art entry.
Fees and Financial Support

Fees

Schedule of Fees
The annual Schedule of Fees, updated each year in June, is available at www.fees.utoronto.ca.

Fees and Registration
Students are informed of fees payable online through ROSI (Repository of Student Information). University of Toronto students normally pay tuition fees at a branch of a financial institution (bank) in Canada. Students wishing to make a fees payment from outside of Canada may choose one of the following three fee payment options: Travelex bank-to-bank transfer, bank draft/money order, or transfer of funds. More information on these payment options can be found on the Student Accounts website. Holders of certain scholarships, awards, research assistantships, teaching assistantships, or loans may request to register without payment through their graduate unit. Students are considered to be registered as soon as they have paid academic and incidental fees or have an approved request to register without payment through their graduate unit. Students are considered to be registered as soon as they have paid academic and incidental fees or have an approved request to register without payment in place. By virtue of being registered, a student thereby agrees to abide by all of the academic and non-academic policies, rules, and regulations of the University of Toronto, the School of Graduate Studies, and the graduate unit in which the student is registered.

Academic Fees Structure
Because the course of study in many graduate units is unstructured and often cannot be described in terms of a specific number of courses, and because graduate education more often than not results from the sum of experience encountered during the program, School of Graduate Studies fees are assessed on a program basis rather than on the number of courses taken. Degree students and special students who pay the full-time fee for the previous fall or winter session do not pay fees for the summer session. However, part-time special students pay summer fees. In addition, part-time degree students who register for the summer session, but who have not registered in both sessions of the previous academic year, pay summer fees.

A degree program is defined on a sessional basis and the full fee is charged regardless of the number of courses taken. All students (except special students not proceeding to a degree) are accepted into a program with a minimum period of registration. This period establishes the minimum degree fee that must be paid before graduation.

In the Faculty of Information, where there is no residence or full-time attendance required and the master’s degree is achieved by course work only, the length of program will be determined by the number of full-course equivalents (FCE) required to complete the degree requirements.

Full-Time Student Fee
The full-time student fee is charged to a full-time student for the minimum period of registration and all subsequent registrations. See also Fees for Final-Year Doctoral Students and Fees for Students on Extension, below, regarding fees for PhD students on extension.

Dual Registrations
Dual registrants will be required to maintain their registration for the master’s degree, register also for the PhD degree, and pay only the appropriate PhD fees.

Full-Time Students Commencing a Degree Program in January
Students commencing a degree program in January will pay half the appropriate fee for the year.

Summer Students
Students commencing a degree program in the summer and taking courses will pay the summer session fee. These fees are in addition to the annual fees which will be assessed in September.

Students commencing a degree program in September but who start research in the preceding summer do not pay fees for the summer session. Continuing degree students and special students who pay the full-time fee for the previous fall or winter session do not pay fees for the summer session. However, part-time special students pay summer fees. In addition, part-time degree students who register for the summer session but who have not registered in both sessions of the previous academic year pay summer fees.

Students returning in the summer session from an approved leave (see General Regulations section 7.1.14 Leave Policy) do not pay summer session fees.

Part-Time Degree Students
Students undertaking their studies on a part-time basis are required to pay the part-time academic and incidental fees each year they register to the completion of their program.
Flexible-Time PhD Degree Students

Students undertaking a flexible-time PhD program are required to pay full-time academic and incidental fees for the first four years of the program and may pay part-time academic and incidental fees thereafter up to the time limit for the degree. Extensions are permitted under existing policy; students granted an extension may register full-time or part-time and pay fees accordingly. See General Regulations, section 7.1.10 Extension of Time for Completion of Degree Requirements.

Special Students

Full-time special students pay the full academic fee per annum. Special students enrolling on a part-time basis will pay for each course or half-course. Fees paid as a special student cannot be applied to any subsequent degree program.

Refund dates are different for part-time special students. For details check www.fees.utoronto.ca.

Fees for International Students

In accordance with the recommendations of the Ontario government, certain categories of international students are charged academic fees equal to those for Canadian citizens and permanent residents.

If an international student's status in Canada changes during a session, exemption from the higher fees may be granted. The fees will be adjusted in the current session, provided the status change occurs before November 1 in the fall session or before February 1 in the winter session. Status changes with supporting documents must be reported to the SGS Student Services Office prior to the above deadlines. However, if a status change effective before these dates is reported with a minor delay, fees adjustment may still be possible. See also Fees for Final-Year Doctoral Students and Fees for Students on Extension, below.

Incidental Fees

Compulsory incidental fees are charged for the Graduate Students’ Union, the Health Service, Hart House, the Athletic Centre, and other student services.

Minimum Payment

For other than those registering for only one session.

The first fee payment is due by the end of the September registration period and consists of 60% of the academic fee and 100% of incidental fees. The balance of the required fees may be paid at any time but is due by April 30 without further notice and is subject to monthly service charges.

Service Charges

All outstanding fees, regardless of the source of payment, are subject to a service charge of 1.5% per month compounded (19.56% per annum), first assessed on November 15 and on the 15th of every month thereafter until paid in full.

Late Registration

Any student registering after the deadline date specified in the academic calendar (sessional dates) is required to pay a late registration fee of $44 plus $5 for each day of delay to a maximum of $94.

Balance of Degree Fee

The length of the program, as defined by the graduate unit, into which a student is admitted predetermines the minimum total academic fee that a student must pay prior to graduation. Many part-time master's students must pay a balance of degree fee prior to graduation.

Full-time students who accelerate their programs and finish the degree requirements in less time than the normal program length must pay a balance of degree fee.

If a student has paid more than the full-time program fee due to the time taken to complete the degree requirements, there will be no refund of fees.

Any fees paid as a non-degree student (whether at the University of Toronto or at another institution) will not be counted towards the balance of degree fee. The SGS approved transfer of graduate credit does not reduce the required balance of degree fee. See also General Regulations section 6.3 Minimum Period of Registration, in Structure of Academic Programs.

Fees for Graduating Master's Students

Master’s students who are recommended for graduation by the deadline date for fall convocation will not be assessed fees for the fall session. Master’s students who miss this deadline but complete their degree requirements by January 28, 2011, are required to register for the fall session and pay the appropriate fees.

Fees for Final-Year Doctoral Students

Doctoral student academic fees for the final year will be pro-rated, based on a 12-month academic year, for the number of months that elapse between September and (including) the month in which the final thesis (including corrections required by the final oral examination committee) is submitted to the School of Graduate Studies. Fees for the final month will not be charged if the requirements are met before the 16th day of the month.
Fees and Financial Support

Academic fees for the final extension year will be pro-rated, based on 50% of the domestic fee for the 12-month academic year, for the number of months that elapse between September and (including) the month in which the thesis (including corrections required by the final oral examination committee) is submitted to the School of Graduate Studies. Fees for the final month will not be charged if the requirements are met before the 16th day of the month.

Fees for Students on Extension

PhD students, full-time students in other doctoral programs, and full-time master’s students on extension, both domestic and international, will be registered as full-time students and charged an academic fee equal to 50% of the domestic fee and full-time incidental fees during each year of extension. Part-time students will pay the relevant part-time fee and incidental fees.

Reinstatement Fees

Reinstated students in programs requiring continuity of registration must pay a reinstatement fee equivalent to the academic fee owing for any session(s) in which they did not register, including program extension session(s), as well as the appropriate fee for the current year. Academic fees charged for sessions before the time limit will be assessed at 100% of the annual academic fee according to the program delivery option (full-time or part-time) and student status (domestic or international). Academic fees charged during the program extension period for full-time students will be calculated at the rate of 50% of the annual domestic fee, for both domestic and international students, plus full-time incidental and ancillary fees and UHIP, if applicable. Part-time students are charged the relevant part-time academic fees during the program extension period plus part-time incidental and ancillary fees and UHIP, if applicable.

Reinstated students in programs not requiring continuity of registration are charged academic fees plus incidental and ancillary fees and UHIP, if applicable, for the year in which they are reinstated.

Also see General Regulations section 7.1.9 Failure to Register.

Outstanding Fees and Charges

See General Regulations section 12.4 Policy on Academic Sanctions for Students Who Have Outstanding Obligations to the University.

Receipts for Income Tax

Tuition Fee Certificates are available online at www.rosi.utoronto.ca. There is a charge of $5 for the preparation of duplicate receipts.

Transcripts

A $10 fee is charged for each copy of a transcript of record. These fees are subject to change. Transcripts will not be issued for students whose fees are in arrears. Transcripts may be ordered from the University of Toronto Transcript Centre, 100 St. George Street, Toronto, Ontario M5S 3G3 or online at www.rosi.utoronto.ca.

Calendars

The entire calendar is accessible on the Web at www.sgs.utoronto.ca/calendar. Printed copies of the School of Graduate Studies Calendar may be purchased from SGS at a cost of $5 each, plus any necessary postage charges. Details and order form are available online at www.sgs.utoronto.ca/calendar.
Financial Support

Financial Aid

The University of Toronto gives high priority to the matter of graduate financial support. For many doctoral-stream students, programs commit to a minimum level of funding at the beginning of each year, for up to five years of study. For further information about the funding available from specific programs, see the Graduate Funding Structures document at www.sgs.utoronto.ca/informationfor/students/money/funding.htm.

Although financial support cannot be guaranteed for all graduate students in all programs, we encourage you to inquire about financial assistance at your academic department or the Graduate Awards Office at the School of Graduate Studies.

Internal Awards

The School of Graduate Studies offers a number of internal awards to meritorious graduate students such as the Connaught Scholarship as well as other endowed awards. For more information on internal awards visit www.sgs.utoronto.ca/informationfor/students/money/support/internal.htm.

External Awards

Canadians and Canadian permanent residents may also apply for external support in the form of scholarships and fellowships offered by the Natural Sciences and Engineering Research Council of Canada (www.nserc.ca), the Social Sciences and Humanities Research Council of Canada (www.sshrc.ca) and the Canadian Institutes of Health Research (www.cihr.ca). All three granting councils (NSERC, SSHRC, and CIHR) also offer Canadian Graduate Scholarships (CGS) and Vanier Canada Graduate Scholarships. International students are eligible for the Vanier Canada Graduate Scholarships only.

The Government of the Province of Ontario provides graduate scholarships tenable at Ontario universities. Ontario Graduate Scholarships (http://osap.gov.on.ca) are available for graduate studies in all disciplines. Sixty of these awards are available to visa students.

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Ontario Graduate Scholarships in Science and Technology (OGSST) are designed to encourage excellence in graduate studies in science and technology; these are available only to Canadian citizens or permanent residents.

Ontario Student Assistance Program (OSAP)

The federal and provincial governments provide financial support to qualified students who are Canadian citizens or permanent residents of Ontario. The loan amount depends on your calculated financial need. Students can apply online at http://osap.gov.on.ca.

Awards for Non-Canadians

In addition to the internal funding normally available to all international students, a number of external funding sources can also be explored. For more information on awards for non-Canadians, please visit www.sgs.utoronto.ca/informationfor/students/money/support/international.htm. International students are encouraged to apply for all possible funding opportunities in their home country.

International students are eligible for the Vanier Canada Graduate Scholarships. Please visit the tri-council websites for more information on specific awards.

The Government of the Province of Ontario provides graduate scholarships tenable at Ontario universities. Ontario Graduate Scholarships (http://osap.gov.on.ca) are available for graduate studies in all disciplines. Sixty of these awards are available to visa students.

Other Funding Sources

Teaching Assistantships

Some graduate units hire teaching assistants who spend up to 10 hours a week conducting tutorials, grading undergraduate essays and exams, and acting as a resource for undergraduate students. For further information, write to the chair of your graduate unit, giving full particulars of your academic training and experience.

Research Assistantships

Research assistants normally work with a faculty member, assisting with research projects. Apply directly to the graduate unit chair concerned.

Financial Need

Emergency Grant Program

The Emergency Grant Program is designed to assist currently registered, full-time graduate students beyond their first year of studies who generally are not part of the funded cohort, and who encounter an unanticipated serious financial emergency. This is not considered to be a source of routine or long-term funding. For more information on the Emergency Grant Program, visit www.sgs.utoronto.ca/informationfor/students/money/support/assistance.htm.

Emergency Loan Program

The Emergency Loan Program is designed to alleviate temporary cash flow problems for students who are expecting to receive a payment in the near future. The maximum loan amount is $1,500 and is interest free until the mutually agreed upon repayment date. For more
Fees and Financial Support

information on the Emergency Grant Program, visit www.sgs.utoronto.ca/informationfor/students/money/support/assistance.htm.

Accessibility Grant Program

The Accessibility Grant Program is designed to assist currently registered, full-time graduate students with accommodations necessary to meet unexpected needs arising from the particular demands of their graduate program. The grant is intended to assist with relatively short term needs that are required to complete the program. Students are expected to plan for long-term assistance. Students must apply for this grant through Accessibility Services. Visit www.sgs.utoronto.ca/informationfor/students/money/support/assistance.htm.

Opportunities Database

An Opportunities Database has been developed by ULife and provides a listing of internal and external awards available to University of Toronto students. This list will be updated regularly as new awards become available and we encourage students to visit the web-site (https://ulife.utoronto.ca/opportunities/list/type/award) often.

Financial Counselling

Financial counselling can relieve stress, resolve immediate financial problems, and help plan for the future. Financial counsellors are trained to assist students in all aspects of financial management including budget planning and debt load management. Financial counselling sessions are confidential and available to graduate students free of charge. To schedule an appointment, contact the Graduate Awards Office by telephone at (416) 946-0808 or by email to graduate.awards@utoronto.ca.

Further Information on Financial Support

Visit
www.sgs.utoronto.ca/informationfor/students/money

Contact
Graduate Awards Office
School of Graduate Studies
University of Toronto
Room 202, 63 St. George Street
Toronto, Ontario M5S 2Z9
Canada
Telephone: (416) 978-2379
Fax: (416) 971-2864
Email: graduate.awards@utoronto.ca or gradschool@utoronto.ca
Services for Students

The University of Toronto offers a variety of student support and opportunities to its graduate students on all three campuses.

http://life.utoronto.ca/
www.sgs.utoronto.ca/informationfor/students.htm

Listed here is a sampling, grouped by category, of many of the commonly sought-after organizations and services. The online version of the SGS Calendar provides current information and details: www.sgs.utoronto.ca/calendar/2011-12.htm.

Academic Support and Professional Development

The university helps graduate students face the challenges of succeeding in their studies by offering services, staffed by experts, to support scholars in meeting the demands of advanced research. Development programs are also offered to prepare students for life following graduation.

Academic Success Centre (ASC)
Career Centre (St. George, UTM, UTSC)
English Language and Writing Support (ELWS)
Graduate Professional Skills (GPS) Program
Research Ethics, Office of
Research Partnerships
Status of Women Office
Teaching Assistants’ Training Program (TATP)

Campus Life—Finding Community

Connecting with the university community beyond your graduate program is part of a rewarding graduate school experience.

Community Partnerships, Centre for
Governing Council (GC)
Grad Escapes
Grad Room
gradNAV
Graduate Education Council (GEC)
Graduate Students’ Union (GSU)
Hart House Clubs, St. George
University of Toronto at Mississauga Clubs
University of Toronto at Scarborough Clubs

Equity and Diversity

As a university committed to human rights and equal opportunity, U of T offers a range of resources and services to foster an accessible and inclusive university experience, along with expert guidance in the event of harassment or discrimination.

Accessibility Services (St. George, UTM, UTSC)
Anti-Racism and Cultural Diversity Office
Centre for Women and Trans People
First Nations House
Multi-Faith Centre, St. George
Sexual and Gender Diversity Office
Sexual Harassment Office
Status of Women Office
Women’s Centre (UTM)

Family Care

Programs enable parents to spend time with their children and interact with other student families. In addition, U of T has several licensed child-care centres that offer priority to U of T parents.

Child Care Resources, UTM
Child Care, UTSC
Family Care Office
Family Resource Centre

Health and Wellness

Services and advice to ensure the health and well-being of graduate students.

Counselling and Psychological Services (CAPS)
Dentistry Patient Clinic
St. George Health Service
University Health Insurance Plan (UHIP)
UTM Health and Counselling Centre
UTSC Health and Wellness Centre

Housing

Student housing is available on all three U of T campuses. Limited family housing is available near the St. George campus and at the University of Toronto Mississauga.

Graduate House
Knox College
St. George Student Family Housing
Student Housing Service
Temporary and Emergency Housing
UTM Student Housing and Residence Life
UTSC Student Housing and Residence Life
Wycliffe College
International Students

International graduate students can benefit from services that help them negotiate the sometimes confusing process of living and studying in a foreign country.

Centre for International Experience, St. George
Graduate Students’ Union (GSU)
International Student Centre at UTSC
International Student Identity Card (ISIC)
International Centre at UTM
University Health Insurance Plan (UHIP)
University of Toronto Summer Abroad

Legal

U of T offers services that provide legal and procedural advice when the need arises.

Downtown Legal Services
Ombudsperson

Money Matters

Seek out U of T services to navigate the complex process of considering funding options and the benefits and responsibilities of each.

Graduate Awards Office
Graduate Students’ Union (GSU)

Recreation

There are plenty of opportunities to engage in sports and athletic programs within the university community or to simply work out solo.

Athletic Centre, St. George
Centre for Physical Education at UTM
Graduate Students’ Union (GSU) Gym
Hart House Athletics
UTSC Athletics & Recreation

Safety

Stay safe while living and studying on campus or when participating in a student internship or exchange abroad.

Campus Police
Community Safety Office
Fire Prevention
Environmental Health and Safety
Ridesafer @ UTSC
Safety Abroad Program
WALKsafer (St. George, UTM)
UTSC Patrol
Graduate Programs

This section contains a listing of graduate programs offered by the School of Graduate Studies at the University of Toronto. It is divided into three categories, by program type:

1. Degree and diploma programs by graduate unit
2. Collaborative programs
3. Joint programs

SGS comprises over 80 graduate units, approximately 40 collaborative (interdisciplinary) programs, and several joint programs.

Within each program type, graduate units are listed alphabetically with a descriptive overview, contact information, a list of degree programs offered, together with admission and program requirements and courses. Each calendar entry concludes with a list of graduate faculty appointed to the graduate unit.

For further details about a program, visit the graduate unit’s website, listed in the contact information
Degree and Diploma Programs by Graduate Unit

A diverse range of research-oriented and professional programs are offered at both the master's and doctoral levels. A limited number of graduate diploma programs are also offered.
Adult Education and Counselling Psychology

Faculty Affiliation
Ontario Institute for Studies in Education

Degree Programs Offered
Adult Education and Community Development – MA, MEd, PhD
Counselling Psychology – MA, MEd, EdD, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Aboriginal Health
   - Adult Education and Community Development, MA, PhD
   - Counselling Psychology, MA, PhD

2. Addiction Studies
   - Counselling Psychology, MA, PhD

3. Aging, Palliative and Supportive Care Across the Life Course
   - Adult Education and Community Development, MA, MEd, PhD
   - Counselling Psychology, MA, MEd, EdD, PhD

4. Community Development
   - Adult Education and Community Development, MA, MEd
   - Counselling Psychology, MA, MEd

5. Comparative, International and Development Education
   - Adult Education and Community Development, MA, MEd, PhD

6. Dynamics of Global Change
   - Adult Education and Community Development, PhD

7. Educational Policy
   - Adult Education and Community Development, MA, MEd, PhD

8. Environmental Studies
   - Adult Education and Community Development, MA, MEd, PhD
   - Counselling Psychology, MA, MEd, EdD, PhD

9. Sexual Diversity Studies
   - Counselling Psychology, MA, MEd, EdD, PhD

10. Women and Gender Studies
    - Adult Education and Community Development, MA, MEd, PhD
    - Counselling Psychology, MA, MEd, EdD, PhD

11. Workplace Learning and Social Change
    - Adult Education and Community Development, MA, MEd, PhD

Overview
The Department of Adult Education and Counselling Psychology is the second largest of the five departments within the Ontario Institute for Studies in Education (OISE) and offers a full range of graduate degrees—Master of Arts, Master of Education, Doctor of Education, and Doctor of Philosophy—in each of two major programs:

- Adult Education and Community Development
- Counselling Psychology

The Adult Education and Community Development (AECD) program provides a place to study and contribute to theory, practice, and policy concerning adult learning in organizations, communities, workplaces, and social movements in local, national, and international contexts. We are an interdisciplinary program which highlights critical social analysis, transformative learning, creative inquiry, and international/global awareness. Perspectives represented in the program include: aboriginal/indigenous; anti-racist/anti-colonial; feminist; environmental/ecological; socialist/Marxist.

The Adult Education and Community Development program faculty are involved in research in the following areas:

- Aboriginal/Indigenous Education
- Workplace Learning and Change
- Creative Inquiry and Adult Learning
- Community, International, and Transformative Learning

The Counselling Psychology program is designed to provide critical and scholarly skills in counselling and counsellor education and to train counsellors and psychologists in the general domain of human services. The Counselling Psychology program offers three fields of specialization:

- Counselling Psychology for Psychology Specialists (MA, PhD)
- Counselling Psychology for Community and Educational Settings (MEd, EdD)
- Guidance and Counselling (MEd)

Contact and Address
Admissions
For application information and forms, visit the Registrar's Office website, www.ro.oise.utoronto.ca.

Email: gradstudy@oise.utoronto.ca
Telephone: (416) 978-1682
The Ontario Institute for Studies in Education (OISE)
University of Toronto
Registrar's Office
Graduate Studies, Admissions Unit
Room 4-485, 252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada
Admission enquiries should be made well in advance of the regular deadline for receipt of applications. Given the limited number of students the department may accept into the majority of its programs, not all eligible applicants will be admitted.

Program Information
Web: aecp.oise.utoronto.ca
Fax: (416) 926-4749

Department of Adult Education and Counselling Psychology
The Ontario Institute for Studies in Education (OISE)
University of Toronto
7th Floor, 252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

Degree Programs

Adult Education and Community Development

Master of Arts
The MA is a research-based degree and can be taken on a full-time or part-time basis. During their program of study, MA students are expected to have exposure to both qualitative and quantitative approaches to research.

Minimum Admission Requirements
• An appropriate bachelor’s degree in a relevant discipline or professional program from a recognized university, with a grade equivalent to a University of Toronto B+ or better in the final year.

Program Requirements
• 4.0 full-course equivalents (FCEs) plus a thesis based on original research.
• Coursework taken is mainly at the 1000 level, of which at least 2.0 FCEs must be from the Adult Education and Community Development program. Additional courses may be required of some students. Students must take either AEC 1100H Introduction to Adult Education or AEC 1102H Community Development: Innovative Models, and AEC 1183H Master’s Thesis Seminar. 0.5 FCE in research methods is required.
• MA students complete a thesis, which may lay the groundwork for doctoral research.

Normal Program Length: 6 sessions full-time; 10 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Master of Education
The MEd is a non-thesis degree program which can be taken on either a full-time or part-time basis.

Minimum Admission Requirements
• From a recognized university, an appropriate bachelor’s degree in a relevant discipline or professional program with a grade equivalent to a University of Toronto mid-B or better in the final year.

Program Requirements
• Normally 5.0 full-course equivalents (FCEs), usually at the 1000 level. At least half of the courses must be from the Adult Education and Community Development program. Students are required to take either course AEC 1100H Introduction to Adult Education or AEC 1102H Community Development: Innovative Models, as well as one research methods course.

Normal Program Length: 5 sessions full-time; 10 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy
The PhD degree program is designed to provide opportunities for advanced study in the theoretical foundations of adult education and community development and in the application of such knowledge to practice. The Adult Education and Community Development program offers both a full-time and flexible-time PhD. Full-time PhD students must complete their degree within six years; flexible-time PhD students must complete their degree within eight years.

Minimum Admission Requirements
• An MA in Education from a recognized university, in the same field of specialization at the doctoral level.
• A standing equivalent to a University of Toronto B+ or better in master's courses.

Program Requirements
• Full-time and flexible-time PhD students begin as a cohort. Except for the time to completion, requirements for both programs are the same.
• It is recommended that students take course AEC 3102H Doctoral Thesis Course in Adult Education in the first session of their program.
• All students must complete 3.0 full-course equivalents (FCEs), of which at least 2.0 FCEs must be from the Adult Education and Community Development program. Students with little background in the field of Adult Education and Community Development will be required to do an additional 0.5 FCE providing such background. A minimum of 2.0 FCEs must be at the doctoral/3000 level, normally including course AEC 3102H.
Students also normally take at least 0.5 FCE specialized research methods course.

- All students are expected to complete a comprehensive requirement and a thesis.

**Normal Program Length:** 4 years full-time; 6 years flexible-time

**Time Limit:** 6 full-time; 8 years flexible-time

### Course List

Not all courses are given each year. Please consult the course schedules available from the Registrar's Office.

- **AEC 1100H** Introduction to Adult Education
- **AEC 1101H** Approaches to Teaching Adults
- **AEC 1102H** Community Development: Innovative Models
- **AEC 1103H** Introduction to Research Methods in Adult Education
- **AEC 1104H** Community Education and Organizing
- **AEC 1107H** Developing and Leading High Performing Teams: Theory and Practice
- **AEC 1108H** Adult Learning (Credit/No Credit)
- **AEC 1110H** Basic Processes in Teaching Adults
- **AEC 1113H** Gender and Race at Work
- **AEC 1114H** Comparative and International Perspectives in Adult Education
- **AEC 1117H** Consulting Skills for Adult Educators
- **AEC 1119H** Practicum in Adult Education and Community Development (Credit/No Credit)
- **AEC 1122H** Special Topics in Adult Education (Master’s)
- **AEC 1131H** Special Topics in Women in Development and Community Transformation (Master’s Level)
- **AEC 1132H** Practicum in Action Research for Organizational Change (Credit/No Credit)
- **AEC 1141H** Organizations and the Adult Educator: Historical and Theoretical Perspectives on Organization Development
- **AEC 1143H** Introduction to Feminist Perspectives on Society and Education
- **AEC 1145H** Participatory Research in the Community and the Workplace
- **AEC 1146H** Women, War, and Learning
- **AEC 1148H** Introduction to Workplace, Organizational, and Economic Democracy
- **AEC 1150H** Critical Perspectives on Organizational Theory, Development and Practice
- **AEC 1152H** Individual Reading and Research in Adult Education: Master's Level
- **AEC 1156H** Power and Difference in Teams and Small Groups

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.

- **AEC 1160H** Introduction to Transformative Learning Studies
- **AEC 1170H** Practitioners' Experienced Knowledge
- **AEC 1171H** Foundations of Aboriginal Education in Canada
- **AEC 1173H** Creativity and Wellness: Learning to Thrive
- **AEC 1178H** Practitioner/Ecological Identity and Reflexive Inquiry
- **AEC 1180H** Aboriginal World Views: Implications for Education
- **AEC 1181H** Embodied Learning and Qi Gong
- **AEC 1182H** Nonprofits, Co-operatives and the Social Economy
- **AEC 1183H+** Master's Thesis Seminar (Credit/No Credit)
- **AEC 1184H** Aboriginal Knowledge: Implications for Education
- **AEC 1185H** Leadership in Organizations: Changing Perspectives
- **AEC 1186H** Perspectives On Organizational Change
- **AEC 1187H** Alternative Ways of Researching Aging, Illness and Health
- **AEC 1188H** Understanding Research Traditions
- **AEC 1189H** Workplace Literacies: Theory, Policy and Practice
- **AEC 1190H** Community Healing and Peacebuilding
- **AEC 1191H** Research Support Seminar
- **AEC 1192H** Adult Literacies in Social Justice Perspective
- **AEC 1193H** Adult Education for Sustainability
- **AEC 3102H+** Doctoral Thesis Seminar (Credit/No Credit)
- **AEC 3103H** Teaching about Global and Social Issues
- **AEC 3104H** Adult Education and Marxism
- **AEC 3119H** Global Perspectives on Feminist Education, Community Development, and Community Transformation
- **AEC 3131H** Special Topics in Adult Education (Doctoral)
- **AEC 3132H** Special Topics in Women in Development and Community Transformation
- **AEC 3133H** Special Topics in Aboriginal Community Learning: Current Issues and Practices
- **AEC 3140H** Post-Colonial Relations and Transformative Education
- **AEC 3152H** Individual Reading and Research in Adult Education: Doctoral Level
- **AEC 3153H** Individual Reading and Research in Women in Development and Community Transformation: Doctoral Level
- **AEC 3170H** Perspectives on Qualitative Research: Part I
- **AEC 3171H** Perspectives on Qualitative Research: Part II
- **AEC 3173H** Effecting Change: Creating Wellness
- **AEC 3177H** Arts-Informed Perspectives in Educational Research
- **AEC 3180H** Global Governance and Educational Change: the Politics of International Cooperation in Education
- **AEC 3181H** Feminist Standpoints: Critical and Post-Structural Approaches
**Degree and Diploma Programs by Graduate Unit**

**Adult Education and Counselling Psychology**

- AEC 3182H  Citizenship Learning and Participatory Democracy
- AEC 3183H  Mapping Social and Organizational Relations in Adult Education
- CIE 1001H  Introduction to Comparative, International and Development Education
- CIE 1002H  Practicum in Comparative, International and Development Education
- WPL 1131H  Workplace Learning and Social Change—Master's

**Interprogram Courses**

The following courses are accepted for credit in the Adult Education program and will satisfy that program's specialization requirement. For descriptions, see the relevant programs.

- AEC 1400H  Special Topics in Adult Education and Counselling Psychology
- AEC 1405H  Introduction to Qualitative Research: Part I
- AEC 1406H  Introduction to Qualitative Research: Part II
- AEC 1407H  Narrative as a Vehicle for Personal Change
- AEC 1408H  Working with Survivors of Trauma
- AEC 1409H  Creative Empowerment Work with the Disenfranchised
- SES 1925H  Indigenous Knowledge and Decolonization: Pedagogical Implications
- SES 2942H  Education and Work
- SES 2970H  Countering Myths about Aboriginal Peoples through Multiple Medias
- SES 3951H  Canadian Political Economy and Education

**Counselling Psychology**

**Field Counselling Psychology for Psychology Specialists**

**Master of Arts**

This MA program is designed for applicants interested in working as researchers or practitioners in a variety of psychological and educational settings. The program leads to registration with the College of Psychologists of Ontario as a Psychological Associate. It also meets the needs of students who plan to apply to the PhD program in Counselling Psychology for Psychology Specialists.

The MA is taken on a full-time or part-time basis. However, students in the part-time program will be required to complete one year of full-time study to fulfil their degree requirements.

**Minimum Admission Requirements**

- An appropriate bachelor's degree in psychology or any appropriate bachelor's degree that would contain the psychology requirement equivalent (defined as 6.0 full-course equivalents [FCEs] in psychology, including 0.5 FCE in research methods, 0.5 FCE in statistics and at least 3.0 FCEs at the third- and fourth-year levels).

- A standing equivalent to a University of Toronto A- better in the final year.

**Program Requirements**

- The MA in Counselling Psychology for Psychology Specialists consists of 4.0 full-course equivalents (FCEs)
- 500 hours of practicum
- A master's thesis
- Every program of study includes courses in counselling theory, practice, assessment, ethics, personality and cognitive assessment skills, and research methodology, as well as a practicum placement.

**Full-time option:** Full-time on-campus study is required from September to April, which represents the fall and winter sessions; however, students may begin their program of study in the preceding summer session. Normally, 1.5 FCEs are taken in each of the fall and winter sessions and a maximum of 1.0 FCE in the summer session. Under this option, it is expected that all degree requirements will be completed within two years.

**Part-time option:** For this option, students can register as part-time students at the beginning of their program. However, they will be required to register as full-time students for one year of the program. In this option, students will normally take 1.0 FCE annually during the beginning of their program and 1.5 FCEs taken in each of the fall and winter sessions in their year of full-time study. Under this option, it is expected that all degree requirements will be completed within two to three years, up to a maximum of six years.

**Normal Program Length:** 6 sessions full-time; 9 sessions part-time

**Time Limit:** 3 years full-time; 6 years part-time

**Doctor of Philosophy**

The principal emphasis of this degree program is the development of research and theoretical knowledge in counselling psychology, assessment skills, and knowledge and training in professional issues. Students are expected to conduct advanced research and to develop professional knowledge and skills in counselling psychology. Graduates will be prepared to assume a variety of positions in psychological practice and research in schools and universities, in community settings, in agencies offering psychological services, and in university or college counselling centres. The program of study must be taken on a full-time basis and progress in the program will be reviewed annually.

The Counselling Psychology program offers both a full-time and flexible-time PhD. The program is accredited by the Canadian Psychological Association.
Minimum Admission Requirements

Full-Time PhD
The PhD in Counselling Psychology requires the following:

- An appropriate bachelor’s degree in psychology or any appropriate bachelor’s degree that would contain the psychology requirement equivalent (defined as 6.0 FCEs in psychology, including 0.5 FCE in research methods, 0.5 FCE in statistics, and at least 3.0 FCEs at the third- and fourth-year levels), with a standing equivalent to a University of Toronto A- or better in the final year.
- A University of Toronto MA degree with specialization in Counselling Psychology for Psychology Specialists with a grade of A- or better, or its equivalent.

Flexible-Time PhD
Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option. However, in addition, applicants to the flexible-time PhD should demonstrate that they are active professionals engaged in activities relevant to their proposed program of study. See the OISE Bulletin for further information.

Program Requirements
- The PhD program requires a minimum of 5.0 full-course equivalents (FCEs), including practicum AEC 3217Y and internship AEC 3268Y. See below for details.
- Practicum: Complete a 500-hour practicum in conjunction with the doctoral practicum course AEC 3217Y.
- Internship (AEC 3268Y): 2,000 hours of internship. All internship arrangements must be made in consultation with the Coordinator of Internship and Counselling Services.
- Comprehensive examination: In addition to normal course requirements, students will be examined systematically in general psychology and in professional psychology. The examination will normally be taken at the end of the second year of full-time study.
- Doctoral dissertation: All students must develop, complete, and defend in a doctoral final oral examination a doctoral dissertation supervised by a full-time member of the Counselling Psychology faculty. The content of such dissertation research may address theoretical issues applicable to counselling concerns and practice, relate to the development of programs in a variety of educational or applied settings, or in some other way contribute to the development and practice of counselling psychology.

Normal Program Length: 5 years full-time; 6 years flexible-time
Time Limit: 6 years full-time, 8 years flexible-time

Field Counselling Psychology for Community and Educational Settings

Master of Education
This degree program provides individuals with the opportunity to learn and develop counselling skills appropriate for a variety of work settings. Students are encouraged to develop their courses and practicum learning experiences to suit their own goals. Examples of the types of goals for which suitable programs of study could be developed are adult counselling, college and university counselling centres, career counselling, geriatrics counselling, multicultural counselling, and community mental health and family life centres. The program of study provides students with the basic preparation for certification as a Certified Canadian Counsellor (CCC) with the Canadian Counselling Association (CCA).

Minimum Admission Requirements
- An appropriate bachelor’s degree of any background or discipline, with a grade equivalent to a University of Toronto B+ or better in the final year, from a recognized university.
- At least one year of relevant experience.

Program Requirements
- The MEd in Counselling Psychology for Community and Educational Settings requires 5.0 full-course equivalents (FCEs) plus a comprehensive examination.
- The 3.0 FCEs required in Counselling Psychology include courses in counselling, group theory, ethics, and a practicum.
- Arrangements regarding a practicum placement must be made in consultation with the Coordinator of Internship and Counselling Services. MEd students can also pursue research in the area of Work and Career which is offered jointly by the Counselling Psychology program and the Adult Education and Community Development program.

Normal Program Length: 5 sessions full-time; 10 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Education
Counsellor training in this degree program emphasizes the role of the counsellor in the educational system, the acquisition of effective supervisory and consultative skills, and the development and assessment of student counselling services in addition to the advanced study of counselling theory and practice.
Graduates will be prepared to take leadership positions in the field of educational counselling; as educators in colleges and institutes of education; as directors and coordinators of school guidance programs; as specialists in the provision of counselling-related, in-service training for school personnel; and as providers of advanced levels of personal counselling to school, college, and related populations.

This option will be especially attractive to individuals who have demonstrated a career commitment to the provision of counselling services in an educational and community setting.

Minimum Admission Requirements
- Students may be admitted to the EdD program via one of two routes:
  - from a bachelor's degree: an appropriate bachelor's degree of any background or discipline from a recognized university, with high academic standing
  - from a master's degree: an MA or MEd degree in Counselling Psychology from the University of Toronto with a grade of B+ or better, or its equivalent from a recognized university. The applicant must have had successful professional experience as a counsellor in an educational setting or in a related position. Applicants who hold an MEd or other non-thesis master's degree must submit evidence of their ability to identify a research or development problem, to design and conduct a study or project, and to report the findings or results, all in a rigorous manner. This constitutes a Qualifying Research Paper (QRP).

Program Requirements
- All students are required to take courses related to the development of competence in counselling theory and practice and to the development of research skills.
- The EdD program requires a minimum of 4.0 full-course equivalents (FCEs), including practicum and internship, and a doctoral dissertation.
- 3.0 of the 4.0 FCEs must be in Counselling Psychology.
- Each student must complete a minimum of one year of full-time, on-campus study.
- Practicum. Complete a 500-hour practicum in conjunction with the doctoral practicum course AEC 3217Y.
- Internship (AEC 3270H). Complete 500 hours of internship. All internship arrangements must be made in consultation with the Coordinator of Internship and Counselling Services.
- Thesis. All students must develop, complete, and defend in a doctoral final oral examination a doctoral dissertation. The content of such dissertation research may address theoretical issues applicable to counselling concerns and practice, relate to the development of programs in a variety of educational or applied settings, or in some other way contribute to the development and practice of counselling psychology.

Normal Program Length: 5 years full-time
Time Limit: 6 years full-time

Field Guidance and Counselling

Master of Education

This degree program helps meet the need for well-prepared practitioners in the field of guidance and counselling in the schools. Therefore, strong preference for admission to this degree program is given to experienced teachers who are interested in specializing in guidance and counselling in the schools. The program of study provides students with the basic preparation for certification as a Certified Canadian Counsellor (CCC) with the Canadian Counselling Association (CCA). Students completing this MEd program may have their degree credited toward Parts I and II of the Ontario College of Teachers' (OCT) Specialist Certificate in Guidance. Students may pursue the MEd degree on a full-time or part-time basis.

Minimum Admission Requirements
- An appropriate bachelor’s degree, with a grade equivalent to a University of Toronto B+ or better in the final year, from a recognized university.
- Teacher certification.

Program Requirements
- 5.0 full-course equivalents (FCEs) plus a comprehensive examination.
- The program of study, planned by the student in consultation with the faculty advisor, cannot be reduced because of guidance certificates held. Within the 3.0 FCEs required in Counselling Psychology, every program of study must include counselling and group theory and a practicum experience.

Normal Program Length: 5 sessions full-time; 10 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Course List
Not all courses are given each year. Please consult the course schedules available from the Registrar’s Office.

AEC 1201H  Personality Theories
AEC 1202H  Theories and Techniques of Counselling
AEC 1203Y* Practicum I: Interventions in Counselling Psychology
Degree and Diploma Programs by Graduate Unit

Adult Education and Counselling Psychology

AEC 1207H Counselling Topics in Sexual Orientation and Gender Identity Diversity
AEC 1214H Critical Multicultural Practice: Diversity Issues in Counselling
AEC 1219H Ethical Issues in Professional Practice in Psychology
AEC 1228H Individual and Group Psychotherapy: Family and Marital Counselling
AEC 1229H Individual and Group Psychotherapy for Counselling
AEC 1245H Brief Counselling Strategies
AEC 1247H Practicum in Adult Counselling
AEC 1252H Individual Reading and Research in Counselling Psychology: Master’s Level
AEC 1253H Feminist Issues in Counselling Psychology and Psychotherapy
AEC 1261H Group Work in Counselling
AEC 1262H Educational and Psychological Testing for Counselling
AEC 1263H Seminar in Research Methods for MA Students
AEC 1266H Career Counselling and Development: Transition from School to Work
AEC 1267Y Advanced Practicum in Counselling
AEC 1268H Career Counselling and Development: Transitions in Adulthood
AEC 1269H Use of Guided Imagery in Counselling and Psychotherapy
AEC 1275H Special Topics in Counselling Psychology (Master’s)
AEC 1278H Cognitive Therapy
AEC 3215H Seminar in Counselling Psychology: Part I
AEC 3216H Seminar in Counselling Psychology: Part II
AEC 3217Y Practicum II: Interventions in Counselling Psychology
AEC 3219H Research Seminar in Counselling
AEC 3224H Individual Cognitive and Personality Assessment
AEC 3225H Assessment and Diagnosis of Personality and Psychopathology
AEC 3253H Individual Reading and Research in Counselling Psychology: Doctoral Level
AEC 3258H Special Topics in Counselling Psychology
AEC 3260H Psychopathology and Diagnosis
AEC 3268Y PhD Internship
AEC 3269H Research Seminar in Critical Multicultural Counselling and Psychotherapy
AEC 3270H EdD Internship
AEC 3271H Additional PhD Practicum

Interprogram Courses

The following courses are accepted for credit in the Counselling Psychology program and will satisfy that program’s specialization requirements. For descriptions, see the relevant programs.

AEC 1173H Creativity and Wellness: Learning to Thrive
AEC 3173H Effecting Change: Creating Wellness
AEC 1400H Special Topics in Adult Education and Counselling Psychology
AEC 1405H Introduction to Qualitative Research: Part I
AEC 1406H Introduction to Qualitative Research: Part II
AEC 1408H Working with Survivors of Trauma
AEC 1409H Creative Empowerment Work with the Disenfranchised
CTL 1602H Introduction to Computers in Education
HDP 1223H Depression in the Schools: Assessment, Prevention, and Intervention
HDP 1287H Introduction to Applied Statistics
HDP 1288H Intermediate Statistics and Research Design
HDP 3204H Contemporary History and Systems in Human Development and Applied Psychology

Graduate Faculty

Full Members

Antone, Eileen - AB, BE, MEd, EdD
Burstow, Bonnie - BA, MEd, MA, PhD
Chen, Charles - BA, MEd, MA, PhD
Gillis, Joseph - BSc, MA, PhD
Gutman, Mary Alice - BEd, MSc, PhD
Jackson, Nancy - BA, MA, PhD (Associate Chair)
Knowles, J Gary - MS, EdD
Laiken, Marilyn - BA, MA, PhD
Miles, Angela - BA, MA, PhD
Mirchandani, Kiran - BA, MPH, PhD
Mojab, Shahrzad - MA, EdD
Moodley, Roy - BA, MA, PhD
Mundy, Karen - AB, MA, PhD
Ng, Roxana - BA, MA, PhD
Piran, Niva - BA, PhD
Quarter, Jack - PhD
Schneider, Margaret - BA, MA, PhD
Schugurensky, Daniel - BEd, MEd, EdD
Stermac, Lana - BSc, MA, PhD
Volpe, Richard - BA, MA, PhD
Watson, Jeanne - PhD (Chair and Graduate Chair)

Members Emeriti

Gamlin, Peter - BA, MA, PhD
Miezitis, Solveiga - BA, MA, PhD
Sullivan, Edmund - MA, PhD

Associate Members

Akingbola, Olakunle - BSc, MIR, MA, PhD
Akman, Donna - PhD
Archer, Anne - DIPP
Armstrong, Ann - MBA, PhD
Bernstein, Lori - BA, MA, MPH, PhD
Blanchard, Ray - MA, PhD
Bodnar, Ana - DBA
Church, Kathryn - PhD

www.sgs.utoronto.ca/calendar/2011-12
Courbasson, Christine - PhD
Jasper, Karin - BA, MA
Josefowitz, Nina - BA, MSc, PhD
Kwan, Kenneth - MEd
Langton, Calvin - PhD
Minsky, Sam - BSc, MA
Restoule, Jean-Paul - BA, MA, DPhil
Silver, Judith - BSc, PhD
Stewart, Suzanne - BA, MA
Stuckless, Noreen - PhD
Toner, Brenda - BA, MA, PhD
Aerospace Studies

Faculty Affiliation
Applied Science and Engineering

Degree Programs Offered
Aerospace Science and Engineering – MASc, MEng, PhD

Overview
The University of Toronto Institute for Aerospace Studies (UTIAS) offers graduate programs leading to research intensive Master of Applied Science and Doctor of Philosophy degrees and a professionally oriented Master of Engineering degree. Faculty research areas include aircraft flight systems and control, flight simulation, computational fluid dynamics, combustion and propulsion, aerodynamic shape optimization, experimental fluid dynamics, flow control, structural mechanics, advanced composite materials, multidisciplinary optimization of aircraft, multifunctional systems, spacecraft dynamics and control, autonomous space robotics, microsatellites, space mechatronics, plasma-materials interactions, and materials for fusion reactors. Details of entrance regulations and courses of study are given in the calendar of the School of Graduate Studies and on the UTIAS website.

Contact and Address
Web: www.utias.utoronto.ca
Telephone: (416) 667-7714
Fax: (416) 667-7743
University of Toronto Institute for Aerospace Studies
Room 169, 4925 Dufferin Street
Toronto, Ontario M3H 5T6
Canada

Degree Programs

Aerospace Science and Engineering

Master of Engineering
Minimum Admission Requirements
• Applicants holding an appropriate bachelor of applied science degree in engineering are considered for admission under SGS General Regulations.

Program Requirements
• Under the guidance of the Graduate Coordinator or a staff supervisor, a student selects a program of study that consists of at least 10 half courses (5.0 full-course equivalents [FCEs]). Individual programs will be arranged to make up for background deficiency. The program may be pursued on a full-time or part-time basis. On a full-time basis, completion is possible in three sessions.

Normal Program Length: 3 sessions full-time; 8 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Master of Applied Science

Minimum Admission Requirements
• Admitted under the SGS General Regulations. Qualified graduates in engineering, mathematics, physics, or chemistry are encouraged to apply. Individual programs are arranged to make up for background deficiencies.

Program Requirements
• Minimum of 2.5 FCEs of which 0.5 must be AER 1800H Research Seminar in Aerospace Science and Engineering. All required courses must be completed during the first year of the program.
• A thesis based on research or development, selected in consultation with the student’s supervisor.
• Research performance is assessed by a Research Assessment Committee (RAC), which includes the student’s supervisor.
• MASc students are anticipated to complete their degree requirements in 18 months.
• Students interested in pursuing a PhD degree, who have achieved excellent performance in an MASc program at UTIAS, are encouraged to transfer directly into a PhD program, under the same supervisor, at the end of their first year of MASc studies. Approval for transfer is based on the student’s research ability, research progress during the first year, and academic standing. Students transferring from an MASc to a PhD program shall be referred to as "transfer students".

Normal Program Length: 5 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements
• An MASc degree in engineering, mathematics, physics, or chemistry and demonstrated ability to perform advanced research. Applicants with an appropriate bachelor’s degree from a recognized university who wish to pursue PhD studies at UTIAS will initially be admitted into the MASc program and will be considered for direct transfer into the PhD program.
Program Requirements

- Full-time continuous registration for every session, including the summer session, until all degree requirements are completed. PhD students starting with an MASc or MEng degree must spend a minimum of two years in the program. Transfer students spend a minimum of three years in the program from the date of registration in the MASc program.

- Following acceptance into a PhD program, the student shall undertake a program of study under the guidance of a Doctoral Examination Committee (DEC) which includes the student's supervisor.

- Coursework and a thesis which must be based on research conducted while registered for the PhD program. PhD students starting with an MASc or MEng degree require 2.0 FCEs. Transfer students need 1.0 FCE in addition to the 2.5 FCEs completed prior to the MASc to PhD transfer for a total of 3.5 FCEs. All courses must be completed during the first two years in the PhD program.

- A student with a master's degree in a discipline appropriate to the field of PhD study is anticipated to complete the PhD program on a full-time basis in less than four years. The anticipated period for transfer students is less than five years from the date of registration in the MASc program. The DEC plays an important role in assisting students to meet this goal. The functions of the DEC are to:
  - Ascertain the suitability of the student for advanced research,
  - Assess the thesis topic,
  - Conduct formal reviews of the student's progress at least once a year (unsatisfactory progress may result in the termination of the student's candidacy), and
  - Provide first assessment of the completed thesis.

- Program milestones:
  1. The first DEC meeting is held within six months of PhD program start (or date of transfer for transfer students); the aim is to identify the topic and scope of the thesis.
  2. The second DEC meeting (approximately 1.5 years after PhD start) is the Qualifying Examination, which determines whether the student should continue in the program or whether his or her candidacy should be terminated.
  3. Subsequent DEC meetings are held at least once a year.

- Upon thesis completion, the student presents the thesis at a Departmental Doctoral Seminar before defending it at the doctoral final oral examination as prescribed under the SGS degree regulations in this calendar.

- Prior to convocation, PhD students must prepare at least one formal manuscript, based on the thesis, for publication in refereed journals or refereed conference proceedings.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master's

Course List

This list represents course offerings at the time of publication. Course descriptions are available on the UTIAS website.

Aircraft Flight Systems
AER 0503H Aerelasticity
AER 1202H Advanced Flight Dynamics
AER 1211H Human Control of Flight Systems
AER 1214H Airplane Dynamics (Flight Laboratory)
AER 1215H Aerodynamics and Flight Mechanics of Rotorcraft
AER 1220H Remotely Piloted Flight Vehicles

Aerodynamics, Fluid Dynamics and Propulsion
AER 0510H Aerospace Propulsion
AER 1301H Kinetic Theory of Gases
AER 1302H Viscous Flows and Boundary Layers
AER 1304H Fundamentals of Combustion
AER 1306H Special Topics in Reacting Flows
AER 1308H Introduction to Modern Flow Control
AER 1310H Turbulence Modelling
AER 1311H Unsteady Gasdynamics
AER 1316H Fundamentals of Computational Fluid Dynamics
AER 1318H Topics in Computational Fluid Dynamics
AER 1319H Finite Volume Methods for Computational Fluid Dynamics
AER 1320H Air-Breathing Propulsion

Structures and Multidisciplinary Optimization
AER 0501H Advanced Mechanics of Structures
AER 1401H Introduction to Composite Materials
AER 1402H The Finite Element Method and Applications
AER 1411H Theory of Composite Materials
AER 1415H Optimization Concepts and Applications

Space Systems Engineering
AER 0506H Spacecraft Dynamics and Control I
AER 0525H Robotics
AER 1503H Spacecraft Dynamics and Control II
AER 1512H Multibody Dynamics
AER 1513H State Estimation for Aerospace Vehicles
AER 1515H Intelligent Robotics
AER 1520H Microsatellite Design I
AER 1521H Microsatellite Design II
Engineering Physics

AER 0507H  Introduction to Fusion Energy
AER 1705H  Plasma Physics and Fusion Energy
AER 1706H  Fusion Reactor Systems
AER 1716H  Fusion Reactor Materials (reading course)
AER 1717H  Applied Plasma Physics I (reading course)
AER 1720H  Applied Plasma Physics II (reading course)

Research Seminars and Professional Courses

AER 1800H  Research Seminar in Aerospace Science and Engineering (for first-year MASc students only)
AER 1810H  MEng Project (for MEng students only)
JDE 1000H  Ethics in Research (Students registered in the MASc or PhD programs are required to participate in this non-credit seminar course during their first or second session of registration. This course must be completed in order to graduate.)

Graduate Faculty

Full Members

Barfoot, Tim - BASc, PhD
Damaren, Christopher - BASc, MASc, PhD
D’Eleuterio, Gabriele - BASc, MASc, PhD
Emami, M. Reza - BSc, MSc, PhD
Gottlieb, James - BSc, MSc, PhD
Grant, Peter - BASc, MASc, PhD
Groth, Clinton - BASc, MASc, PhD
Gulder, Omer - BSc, MSc, PhD
Haasz, Anthony - BASc, MASc, PhD
Hansen, Jorn - BASc, MASc, PhD
Liu, Hugh - BSc, MASc, PhD (Interim Associate Director; Graduate Coordinator)
Martins, Joaquim - MEng, MSINAE, PhD
Sislian, Jean - MSc, PhD, PhD
Stangeby, Peter - BSc, MSc, PhD
Steeves, Craig - BA, BASc, PhD
Zee, Robert - BASc, MASc, PhD
Zingg, David - BASc, MASc, PhD (Director)

Members Emeriti

de Leeuw, Jacob - MS, PhD
DeLaurier, James - BS, MS, PhD, Fell Cdn Aero & Space Inst
Hughes, Peter - BASc, MASc, PhD
Reid, Lloyd - BASc, MASc, PhD
Sullivan, Philip - DIC, BEng, MEng, PhD
Tennyson, Roderick - BASc, MASc, PhD

Associate Members

Davis, James - BASc, MASc, PhD
Fejtek, Ian - BSc, BEng, MASc, PhD
Kleiman, Jacob - BS, MS, PhD, PhD
Laurendeau, Eric - BEng, PhD
Liu, Fengshan - BSc, PhD
Ower, Cameron - BASc, MASc, PhD
Sallaberger, Christian - BASc, MSc, PhD
Anthropology

Faculty Affiliation
Arts and Science

Degree Programs Offered
Anthropology – MA, MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Aboriginal Health
   • Anthropology, MA, MSc, PhD
2. Addiction Studies
   • Anthropology, MA, MSc, PhD
3. Aging, Palliative and Supportive Care Across the Life Course
   • Anthropology, MA, MSc, PhD
4. Asia-Pacific Studies
   • Anthropology, MA
5. Diaspora and Transnational Studies
   • Anthropology, MA, MSc, PhD
6. Dynamics of Global Change
   • Anthropology, PhD
7. Environmental Studies
   • Anthropology, MA, MSc, PhD
8. Ethnic and Pluralism Studies
   • Anthropology, MA, MSc, PhD
9. Global Health
   • Anthropology, PhD
10. Jewish Studies
    • Anthropology, MA, PhD
11. Sexual Diversity Studies
    • Anthropology, MA, MSc, PhD
12. South Asian Studies
    • Anthropology, MA, PhD
13. Women and Gender Studies
    • Anthropology, MA, PhD
14. Women’s Health
    • Anthropology, MA, MSc, PhD

Overview
The Department of Anthropology offers research training and courses of instruction in five fields:
- Archaeology
- Biological Anthropology
- Linguistic and Semiotic Anthropology
- Medical Anthropology
- Sociocultural Anthropology

The department offers a Master of Arts degree program in all five fields.

The Master of Science degree program is normally taken in three fields: Archaeology, Biological Anthropology, and Medical Anthropology.

The Doctor of Philosophy is primarily a research degree. A program of study is designed for each student to ensure competence in a field of research, culminating in the writing of a thesis.

Contact and Address
Web: www.anthropology.utoronto.ca
Email: anthropology.graduate@utoronto.ca
Telephone: (416) 978-5416
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Department of Anthropology
University of Toronto
Room 256, 19 Russell Street
Toronto, Ontario M5S 2S2
Canada

Degree Programs

Anthropology

Master of Arts

Minimum Admission Requirements
- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- B+ average or equivalent
- Applicants must satisfy the department that they have the appropriate background to enter a particular program of graduate study.
- two letters of reference
- a brief statement of interest (not exceeding 1,000 words)

Program Requirements
- 4.0 full-course equivalents (FCEs), which must include ANT 1000H and ANT 2000Y
- The program normally extends over a 12-month period lasting from September to September; the MA program may also be taken on a part-time basis.

Normal Program Length: 3 sessions full-time; 6 sessions part-time
Time Limit: 3 years full-time; 6 years part-time
Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- B+ average or equivalent
- Applicants must satisfy the department that they have the appropriate background to enter a particular program of graduate study.
- two letters of reference
- a brief statement of interest (not exceeding 1,000 words)

Program Requirements

- 5.0 full-course equivalents (FCEs), which must include ANT 1000H and ANT 2500Y. Of the remaining 3.5 FCEs, 1.5 will normally be science courses in archaeology, biological anthropology, medical anthropology, or related disciplines depending on the student’s program.

The MSc is a two-year program that is normally completed by the summer of the second year. The MSc program may also be taken on a part-time basis.

Normal Program Length: 6 sessions full-time; 9 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- Admission is offered primarily to excellent students who, by the time of enrolment, have completed a master’s degree in anthropology (or a cognate subject).
- All applicants are expected to have achieved grades averaging the equivalent of a University of Toronto A- or better in their last full year of study. Most successful applicants will have finished or be in the process of completing an MA or MSc.
- Applicants must satisfy the department that they have the appropriate background to enter a particular program of graduate study.
- two letters of reference
- a brief statement of interest (not exceeding 1,000 words)
- Applicants are encouraged to identify departmental members with whom they want to conduct PhD research. The department regrets that it cannot admit students to the PhD program, regardless of their qualifications, unless a supervisor is available.
- Undergraduate students with exceptionally strong backgrounds (i.e., with a cumulative GPA of 3.85 or above) and who have earned an appropriate bachelor’s degree with a concentration in anthropology may apply for direct entry to the PhD program.

Program Requirements

All PhD Students

- Before proceeding to full-time research, students must:
  - be resident on campus for one year
  - complete a minimum of 3.0 FCEs, at least 1.5 of which are normally in anthropology
  - gain experience in research methods and design; requirement can be filled by completing coursework in methodology or, with the department’s assent, undertaking faculty-supervised fieldwork or laboratory research. Each student will normally be involved in fieldwork, in the broad meaning of the term, and in theoretical analysis
  - present and defend a thesis proposal
  - demonstrate an adequate knowledge of at least one language other than English, unless their program of study requires the intensive and time-consuming mastery of another research tool; demonstration of adequate language or equivalent knowledge can be accomplished in a variety of ways, a list of which is available in the Department of Anthropology’s Graduate Student Handbook

At the beginning of the academic year, each student will submit, with the SGS enrolment form, a Program Statement describing his or her plan to meet program requirements.

Depending on subfield or area of research, completion of the PhD may take longer than the indicated program length below. See departmental handbook for details.

Entry with a Master’s Degree

- minimum of 3.0 full-course equivalents (FCEs)
- attain at least an A- average in coursework to continue in the PhD program in good standing
- submit research proposal by the end of the third session of the second year (e.g., August 31 for students who start in September)

Direct-Entry Students (entry with a bachelor’s degree)

- 5.0 full graduate course equivalents (FCEs), of which 3.0 will normally be taken in the first year; the remaining 2.0 FCEs can be taken in the second year, when work on the research proposal is also expected to begin
- attain an annual average of at least A- to continue in the PhD program in good standing
- submit research proposal by the end of the third session of the third year (e.g., August 31 for students who start in September)
### Degree and Diploma Programs by Graduate Unit

**Anthropology**

#### Normal Program Length:
4 years full-time; 5 years direct-entry

#### Time Limit:
6 years full-time; 7 years direct-entry

#### Course List
Not all courses are offered every year. Check with the department for current year’s offerings.

##### General

- **ANT 1000H**: Anthropology: Theoretical Paradigms and Case Studies (Credit/No Credit)
- **ANT 1099H**: Quantitative Methods II
- **ANT 1155H,Y**: Research (or reading seminar)
- **ANT 1156H,Y**: Research (or reading seminar)
- **ANT 1157H,Y**: Research (or reading seminar)
- **ANT 1158H,Y**: Research (or reading seminar)
- **ANT 2000Y**: MA Research Paper
- **ANT 2500Y**: MSc Research Paper
- **JAC 1001H**: Media, Mind, and Society
- **JTH 3000H**: Coordinating Seminar in Ethnic and Pluralism Studies (for students in the Ethnic and Pluralism Studies Collaborative Program)

##### Archaeology

- **JPA 1040Y**: Advanced Physics and Archaeology
- **ANT 4020H**: Archaeology Theory
- **ANT 4022H**: Culture Resource Management
- **ANT 4025H**: Archaeology of Eastern North America
- **ANT 4026H**: Arctic Archaeology
- **ANT 4028H**: Violence and Civilization
- **ANT 4029H**: Lithic Technology
- **ANT 4030H**: Artifacts
- **ANT 4038H**: Archaeology of Urban Development
- **ANT 4039H**: Origin and Nature of Food Producing Societies
- **ANT 4040H**: Archaeology of Hunter-Gatherers
- **ANT 4041H**: Landscape Archaeology
- **ANT 4042H**: Archaeology of Complex Hunter-Gatherers
- **ANT 4043H**: Archaeology of Ritual, Religion, and Ideology
- **ANT 4044H**: Interregional interaction in the Ancient World
- **ANT 4045H**: Mortuary Archaeology
- **ANT 4046H**: Archaeology of Style
- **ANT 4050H**: Zooarchaeology
- **ANT 4060H**: Specific Problems: Old World
- **ANT 4065H**: Specific Problems: New World
- **ANT 4066H**: Household Archaeology
- **ANT 4068H**: Archaeology of Technology

##### Biological Anthropology

- **ANT 3005H**: Advanced Topics in Paleoanthropology
- **ANT 3010H**: Human Osteology: Theory and Practice
- **ANT 3011H**: Palaeopathology
- **ANT 3022H**: New Techniques for Biological Anthropology
- **ANT 3031H,Y**: Advanced Research Seminar I
- **ANT 3034H,Y**: Advanced Research Seminar IV
- **ANT 3041H**: Evolutionary Perspectives on Growth and Development
- **ANT 3042H**: Advanced Topics in Primate Ecology
- **ANT 3043H**: Comparative Methods in Biological Anthropology
- **ANT 3044H**: Current Topics in Primate Social Behaviour
- **ANT 3045H**: Advanced Topics in Non-Human Primate Evolution
- **ANT 3046H**: Paleoecology in Primate and Human Evolution
- **ANT 3439H**: Advanced Seminar in Forensic Anthropology
- **ANT 3440H**: Molecular Anthropology: Theory and Practice

##### Linguistic Anthropology

- **JAL 1140H**: Special Topics in Anthropology and Linguistics
- **JAL 1153H**: Conversational Structures
- **JAL 1155H**: Language and Gender
- **ANT 5141H**: Critical Issues in Linguistic Anthropology
- **ANT 5142H**: Language in Anthropological Thought
- **ANT 5143Y**: Areal Studies in Linguistic Anthropology: Africa, East Asia, North America, Oceania
- **ANT 5143H**: Critical Issues in Linguistic Anthropology
- **ANT 5144H**: Foundations in Linguistic Anthropology
- **ANT 5145H**: Classic Texts in Cultural Studies
- **ANT 5146H**: West and Non-West: Anthropology and the Notion of the Other
- **ANT 5162H**: Ethnography of Communication
- **JSA 5147H**: Language, Nationalism and Post-Nationalism

##### Medical Anthropology

- **ANT 7001H**: Medical Anthropology I
- **ANT 7002H**: Medical Anthropology II

##### Social and Cultural

- **ANT 6003H**: Critical Issues in Ethnography I
- **ANT 6004H**: Critical Issues in Ethnography II
- **ANT 6008H**: Posthuman Anthropology
- **ANT 6009H**: Magic and Modernity
- **ANT 6010H**: Anthropology of Korea: History and Dialogues with Other Disciplines within Korean Studies
- **ANT 6011H**: Anthropology of the Modern State
- **ANT 6012H**: Metamorphosis of Citizenship
- **ANT 6013H**: Language and Publics in the Ethnography of Speaking
- **ANT 6014H**: Textuality and Technologies of Mass Mediation
- **ANT 6015H**: Global Health: Anthropological Perspectives
- **ANT 6016H**: Medicine and Globalization

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0 Course that may continue over a program. The course is graded when completed.

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
ANT 6017H Post-colonial Science Studies and the Cultural Politics of Knowledge Translation
ANT 6018H Theories of Nature and Society
ANT 6019H Anthropology of Neoliberalism
ANT 6020H The Political Economy of Global/Local Dialectics
ANT 6022H Symbolic Anthropology: Structuralism, Hermeneutics, and Poststructuralism
ANT 6023H Governmentality, Development, and the Improvement of the World
ANT 6024H Contemporary Trends in Anthropological Theory
ANT 6025H Anthropology and Epistemology
ANT 6026H Anthropology of Identity and Subject Formation
ANT 6027H Anthropology of Violence
ANT 6029H Anthropology of Capitalism
ANT 6030H Anthropology and the Ethical Imagination
ANT 6031H, Y Advanced Research Seminar I
ANT 6032H Advanced Research Seminar II
ANT 6033H, Y Advanced Research Seminar III
ANT 6034H, Y Advanced Research Seminar IV
ANT 6037H, Y Advanced Research Seminar VII
ANT 6038H, Y Advanced Research Seminar VIII
ANT 6040H Approaches to Fieldwork I
ANT 6041H Approaches to Fieldwork II
EAS 1603H Anthropology of South Korea
JAR 6053H Aboriginal Religion in Comparative Experience
JAR 6510H From Theory to Ethnography: Anthropological Approaches to Religion

Graduate Faculty

Full Members
Bamford, Sandra - BA, MA, MPA, ScD
Banning, Edward - BA, MA, PhD
Barker, Joshua - BA, MA, PhD
Begun, David - PhD
Boddy, Janice - BA, MA, PhD (Chair and Graduate Chair)
Chazan, Michael - BA, BA, MA, PhD
Coleman, Simon - BA, PhD
Coupland, Gary - BA, MA, PhD
Crawford, Gary - BSc, MA, PhD
Cunningham, Hilary - PhD
Danesi, Marcel - BA, MA, PhD
Daswani, Girish - BA, BSc, MS, PhD
Dave, Prakruti - BA, MA, PhD
DuTour, Olivier - MD, PhD
Friesen, T Max - BA, MA, PhD
Gillison, Gillian - BA, PhD
Jackson, Jennifer - BA, MPH, PhD
Kalmar, Ivan - BA, MA, PhD (Coordinator of Graduate Studies)
Krupa, Chris - BA, MA, PhD
Lambek, Michael - BA, MA, PhD
Lehman, Shawn - PhD
Li, Tania - BA, PhD
Luong, Hy Van - BA, PhD
McElhinny, Bonnie - PhD
Miller, Heather - BA, MA, SM, PhD
Mortensen, Lena - AB, PhD
Muhlebach, Andrea - PhD
Napolitano, Valentina - BSc, PhD
Parra, Esteban - BSc, MS, PhD
Paz, Alejandro - BA, MPA, MA
Pfeiffer, Susan - AB, AM, PhD
Rogers, Tracy - AB, MPA, DPhil
Sanders, Todd - AB, AM, MSc, PhD
Satsuka, Shiiho - BA, BA, MA, PhD
Sawchuk, Lawrence - BA, MA, PhD
Schillaci, Michael - BA, MA, PhD
Sellen, Daniel - BA, AM, PhD
Sidnell, Jack - BA, MA, PhD
Sieciechowicz, Krystyna - BA, MA, PhD
Silcox, Mary Teresa - BSc, PhD
Smith, David - AB, MA, PhD
Song, Je Sook - BA, PhD
Swenson, Edward - BA, MA, PhD
Turner, David - BA, PhD
Wardlow, Holly - BA, PhD
Yao, Alice - PhD

Members Emeriti
Alderson-Smith, Gavin - BA, MA, DPhil
Burton, Frances - BSc, MA, PhD
Carstens, Peter - BA, PhD
Drewitt, Robert - BA, PhD
Kleindienst, Maxine - BA, MA, PhD
Latta, Martha - BA, MA, DPhil
Lee, Richard - BA, MA, PhD
Levin, Michael - BA, MA, PhD
Mavalwala, Jamshed D - MS, PhD
Nagata, Shuichi - BS, MA, PhD
Philpott, Stuart - BA, MA, PhD
Ray, Ajit - BSc, MSc, PhD
Samarin, William - BA, PhD
Simich, Laura - PhD
Williamson, Ronald - BA, MA, PhD
Young, Donna Jean - AB, BA, AM, MA, MPA, DPhil, PhD
Zubrow, Ezra - BA, MA

Associate Members
Clark, Dylan - PhD
Cummings, Maggie Irene - BA, MA, PhD
Dewar, Genevieve - BS, MA, PhD
Gibbs, Alison - BS, MS, PhD
Gilbert, Andrew - PhD
Harrison, Timothy - BA, MA, PhD
Klassen, Pamela - BA, MA, PhD
Knappett, Carl - MA, PhD
Mittermaier, Amira - MA, PhD
O’Neill, Kevin - PhD
Parga, Joyce Ann - BSc, MA, PhD
Schwarz, Henry P. - AB, MSc, PhD
Simich, Laura - PhD
Williamson, Ronald - BA, MA, PhD
Young, Donna Jean - AB, BA, AM, MA, MPA, DPhil, PhD
Zubrow, Ezra - BA, MA

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Architecture, Landscape, and Design

Faculty Affiliation
Architecture, Landscape, and Design

Degree Programs Offered
Architecture – MArch
Landscape Architecture – MLA
Urban Design – MUD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Knowledge Media Design
   • Architecture, MArch
   • Landscape Architecture, MLA
   • Urban Design, MUD

Overview
The Faculty of Architecture, Landscape, and Design offers three graduate programs.

The Master of Architecture (MArch) is a professional degree program and provides a thorough base of knowledge in history, theory, technology, ecology, society, and professional practice, while developing skills in design through an intensive sequence of design studio courses. These are supported by courses in visual communication and architectural representation including computer modelling and other new media. The program aims to develop critical, creative, and independent thinking and research that responds to current design issues and societal changes. The Greater Toronto region is used as an urban laboratory for the development of new knowledge and forms of practice.

The Master of Landscape Architecture (MLA) is a professional program that focuses on urban landscape architecture, design, and theory within a challenging studio-based curriculum. Integrated courses in history, technology, and the environment, as well as options for free electives, provide a comprehensive professional landscape architecture education.

The Master of Urban Design (MUD) is a post-professional program that prepares architects and landscape architects for design-based research and professional practice at the urban and regional scales. The MUD program is committed to design as a primary medium of operation and research in a broad intellectual framework that includes geography, environmental studies, social sciences, media studies, economics, and engineering. It aims for responsible and creative design in the context of the post-metropolis, with attention to new paradigms of urbanization, global economic restructuring, and information technology. The program emphasizes a coherent intellectual approach that is committed to analysis and critique and seeks to become the central Canadian forum for advanced research, design innovation, scholarship, criticism, and debate in urban design.

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John H. Daniels Faculty of Architecture, Landscape, and Design
University of Toronto
230 College Street
Toronto, Ontario M5T 1R2
Canada

Degree Programs

Architecture

Master of Architecture

Minimum Admission Requirements

3.5-Year Program
- An appropriate bachelor's degree (BA, BSc, BASc) with a final-year grade point average of at least mid-B, and showing leadership potential in the field.
- Required: courses in secondary calculus, secondary physics, and university architectural history (0.5 full-course equivalent).
- Recommended: preparation in the visual arts, such as drawing, sculpture, graphics, photography, film, or new media, as well as computing and advanced writing skills.

2.5-Year Program: Second-Year Advanced-Standing Option
- An appropriate non-professional bachelor’s degree in architectural studies or environmental design, or a comparable degree focusing on the built environment.
- Admission to the advanced-standing option is based on the merits of the student’s overall academic background and strength of design portfolio as evaluated by the MArch admissions committee. Each MArch applicant with a suitable undergraduate degree will be evaluated for this option during the admissions process.
- Required: minimum previous completion of three design studio courses, two courses in visual communications or representation, two courses in architecture history and theory (one in twentieth-
Degree and Diploma Programs by Graduate Unit

Architecture, Landscape, and Design

century), and two courses in architectural technology and ecology.

1.5-Year Program: Post-Professional Advanced-Standing Option

• A post-professional advanced-standing option is available for students who are interested in pursuing advanced studies in architecture beyond their professional degree.
• Applicants must have completed all requirements for an accredited professional degree from a recognized university.
• Students enter the third-year of the MArch program.
• The post-professional advanced-standing option does not grant a professionally accredited degree.

General Program Requirements

• The course of study is rigorous and comprehensive, preparing graduates for the full range of professional activities in architecture. The core program is extensive, and students are required to use their electives to develop an area of special skill and knowledge through an independent study program that culminates in a design thesis.
• Students study full-time, taking all required courses in each given session. A B- grade in two design studio courses or a B- grade in any three courses normally results in a recommendation to the School of Graduate Studies to terminate the student’s registration in the degree program.
• There is no language requirement other than proficiency in English. Writing support is integrated into the program in order to develop specialized skills in writing which are essential to effective learning and communication in the design fields.

Specific Program Requirements

3.5-Year Program

• Students must take a total of 17.5 full-course equivalents (FCEs) as follows:
  o 15.0 FCEs in core courses
    • 4.0 FCEs design studios
    • 2.0 FCEs option design studios
    • 0.5 FCE thesis preparation and research course
    • 1.5 FCEs design thesis
    • 1.0 FCE Visual Communications courses
    • 1.0 FCE History and Theory courses
    • 0.5 FCE Computer Modelling course
    • 3.5 FCEs Technics and Planning courses
    • 1.0 FCE Professional Practice course
  o 2.5 FCEs in electives, of which 1.0 FCE must be in the History and Theory stream

Normal Program Length: 10 sessions full-time
Time Limit: 4 years full-time

2.5-Year Program: Second-Year Advanced-Standing Option

• Students must take a total of 12.5 FCEs as follows:
  o 10.0 FCEs core courses
  o 2.0 FCEs design studios
  o 2.0 FCEs option design studios
  o 0.5 FCE thesis preparation and research course
  o 1.5 FCEs design thesis
  o 0.5 FCE Computer Modelling course
  o 2.5 FCEs Technics and Planning courses
  o 1.0 FCE Professional Practice course
  o 2.5 FCEs elective courses, of which 1.0 FCE must be in the History and Theory stream

Normal Program Length: 7 sessions full-time
Time Limit: 4 years full-time

1.5-Year Program: Post-Professional Advanced-Standing Option

• Students must take a total of 7.5 FCEs as follows:
  o 4.5 FCEs core courses
    • 2.0 FCEs option design studios
    • 0.5 FCE thesis thesis preparation and research course
    • 1.5 FCEs design or research thesis
  o 3.0 FCEs elective courses

Normal Program Length: 4 sessions full-time
Time Limit: 4 years full-time

Course List

Consult the department regarding course availability.

Core Courses

DESIGN
ARC 1011Y Architectural Design Studio 1: Design
ARC 1012Y Architectural Design Studio 2: Site, Building, Tectonics
ARC 2013Y Architectural Design Studio 3: Culture and the Metropolis
ARC 2014Y Architectural Design Studio 4: Comprehensive Building Project
ARC 3015Y Architectural Design Studio 5: Option Studios
ARC 3016Y Architectural Design Studio 6: Option Studios
ARC 3017H Thesis Research and Preparation
ARC 4018Y Architectural Design Studio 7: Thesis
Degree and Diploma Programs by Graduate Unit

COMPUTER MODELLING
ARC 2023H Intermediate Computer Applications in Architecture

VISUAL COMMUNICATION
ARC 1021H Visual Communication 1
ARC 1022H Visual Communication 2

HISTORY AND THEORY
ARC 1031H Historical Perspectives on Topics in Architecture 1
ARC 1032H Historical Perspectives on Topics in Architecture 2

TECHNICS AND PLANNING
ARC 2043H Building Science, Materials and Construction 1
ARC 2044H Building Science, Materials and Construction 2
ARC 2046H Environmental Systems

PROSEMINAR
ALA 3031H Proseminar

PROFESSIONAL PRACTICE
ARC 3052Y Professional Practice

Elective Courses
Not all elective courses are offered every year. Please check the timetable available from the program office in August.

DESIGN
ARC 1013H Graphic Design
ARC 1014H Furniture Design
ARC 1016H Selected Topics in Industrial Design
ARC 2015H Global Architecture: Urban Analysis and Documentation

COMPUTER MODELLING
ARC 3024H Advanced Computer Applications in Architecture

HISTORY AND THEORY
ARC 1033H Architecture, Media and Communications
ARC 1034H Architecture, Philosophy, Art
ARC 1035H Toronto Architecture and Urban Form
ARC 1037H Topics in Architecture and Cultural Difference
ARC 2031H (Re)Constructing Domesticity: Ideas and Techniques of Construction in Mid-Century North American Houses

ARC 2039H Architecture Theory
ARC 3031H Analysis of Architectural Form
ARC 3033H Selected Topics in Architectural History and Theory
ARC 3034H Selected Architects
ARC 3035H Selected Topics in Urban Design
ARC 3036H Current Art in Its Urban Context
ARC 3038H Global Architecture: History and Theory
ARC 3039H Independent Study and Research in Architecture

LANDSCAPE ARCHITECTURE

Master of Landscape Architecture

Minimum Admission Requirements

3-Year Program
- An appropriate bachelor’s degree (BA, BSc, BASc, BES, BFA, BCom) with a minimum average of mid-B and demonstrated leadership potential in the field. Preference is given to applicants who have completed a balanced undergraduate education that includes study in the arts, sciences, and humanities.
- Recommended:
  - undergraduate courses in biology/ecology, geography, English, and history.
  - preparation in the visual arts, such as drawing, sculpture, graphics, photography, film, or new media, as well as in computing and advanced writing.

2-Year Program: Second-Year Advanced-Standing Option
- An appropriate bachelor’s degree in architecture, architectural studies, or environmental design, or a comparable degree focusing on the design of the built environment.
- Admission is based on the merits of the applicant’s overall academic background and strength of design portfolio as evaluated by the MLA admissions committee. Each applicant with a suitable undergraduate degree will be evaluated for this option during the admissions process.
- Required: minimum previous completion of three design studio courses, two courses in visual communications or representation, two courses in architectural history and theory (one in twentieth-century), and two courses in architectural technology and/or ecology.

1-Year Program: Post-Professional Advanced-Standing Option
- A post-professional advanced-standing option is available for students who are interested in pursuing advanced study beyond their professional degree.
Applicants must have completed all requirements for an accredited professional degree from a recognized university.

Students enter the third-year of the MLA program.

The post-professional advanced-standing option does not grant a professionally accredited degree.

### General Program Requirements

- Students study full-time, taking all required courses in each given session. A B- grade in two design studio courses or a B- grade in any three courses normally results in a recommendation to the School of Graduate Studies to terminate the student's registration in the degree program.
- There is no language requirement other than proficiency in English. Writing support is integrated into the program in order to develop specialized skills in writing which are essential to effective learning and communication in the design fields.

### Specific Program Requirements

#### 3-Year Program

- Students must take a total of 15.5 full-course equivalents (FCEs) as follows:
  - 14.0 FCEs in core courses
    - 4.0 FCEs design studios
    - 1.0 FCE option design studio
    - 0.5 FCE thesis preparation and research course
    - 1.5 FCEs design thesis
    - 0.5 FCE Environment field courses
    - 1.5 FCEs History and Theory courses
    - 1.5 FCEs Visual Communication courses
    - 0.5 FCE Computation course
    - 1.0 FCE Technology courses
    - 1.0 FCE Environment courses
    - 0.5 FCE Professional Practice course
  - 1.5 FCEs in electives, of which it is recommended that 1.0 FCE be taken in other academic divisions of the university.

#### Normal Program Length: 6 sessions full-time

#### Time Limit: 3 years full-time

#### 2-Year Program: Second Year Advanced-Standing Option

- Students must take a total of 10.5 FCEs in core courses as follows:
  - 2.0 FCEs design studios
  - 1.0 FCE option design studio
  - 0.5 FCE thesis preparation and research course
  - 1.5 FCEs design thesis
  - 0.5 FCE Environment field courses
  - 1.5 FCEs History and Theory courses
  - 0.5 FCE Visual Communication courses
  - 0.5 FCE Computation course
  - 1.0 FCE Technology courses
  - 0.5 FCE Environment courses
  - 0.5 FCE Professional Practice course

#### Normal Program Length: 4 sessions full-time

#### Time Limit: 3 years full-time

#### 1-Year Program: Post-Professional Advanced-Standing Option

- Students must take a total of 5.0 FCEs in core courses as follows:
  - 1.0 FCE option design studio
  - 0.5 FCE Proseminar course
  - 0.5 FCE thesis preparation and research course
  - 1.5 FCEs design thesis
  - 0.5 FCE Computation course
  - 0.5 FCE Technology course
  - 0.5 FCE Professional Practice course

#### Normal Program Length: 2 sessions full-time

#### Time Limit: 3 years full-time

### Course List

#### Core Courses

**DESIGN**
- LAN 1011Y Design Studio 1
- LAN 1012Y Design Studio 2
- LAN 2013Y Design Studio 3
- LAN 2014Y Design Studio 4
- LAN 3015H Thesis Research and Preparation
- LAN 3016Y Design Studio Options
- LAN 3017Y Design Studio Thesis

**COMPUTATION**
- LAN 3025H Advanced Computation in Landscape Architecture

**VISUAL COMMUNICATION**
- LAN 1021H Visual Communication 1
- LAN 1022H Visual Communication 2
- LAN 2023H Intermediate Digital Visual Communications in Landscape

**HISTORY AND THEORY**
- LAN 1031H History Theory Criticism 1
- LAN 1032H History Theory Criticism 2
- LAN 2018H Contemporary Issues in Urban Landscape Design

**TECHNOLOGY**
- LAN 1045H Site Engineering and Ecology
- LAN 2042H Urban Site Technologies 1
- LAN 3045H Urban Site Technologies 2
Degree and Diploma Programs by Graduate Unit

ENVIRONMENT
LAN 1041H Urban Plant Ecosystems 1 (field course)
LAN 1043H Urban Plant Ecosystems 2 (field course)
LAN 2043H Integrated Ecological Studies
LAN 2044H Urban Environmental Systems

PROSEMINAR
ALA 3031H Proseminar

PROFESSIONAL PRACTICE
LAN 3051H Professional Practice

Elective Courses
Not all elective courses are offered every year. Please check the timetable available from the program office in August.

DESIGN
LAN 1033H Urban Landscape Architecture and Community
LAN 2033H Landscape and Urban Form
LAN 2035H Landscape Design Research Methods

COMPUTATION
LAN 2034H Landscape Architecture and Digital Communications

HISTORY AND THEORY
LAN 1036H The Historic Basis for the Contemporary Use of Plants in Landscape Design
LAN 2036H Topics in Landscape History and Theory
LAN 2038H Landscape Conservation and Restoration
LAN 2039H Independent Study in Landscape Architecture
LAN 3031H Mass-Urbanization in the 21st Century

ENVIRONMENT
LAN 2037H Selected Topics in Landscape Architecture, Technology and Ecology

Urban Design

Master of Urban Design

Minimum Admission Requirements

2-Year Program
• Professional degree in architecture (BArch or MArch) or landscape architecture (BLA, MLA). Applicants with a degree in urban planning (MCP, MUP, or MScPl) may be considered for admission if their studies included a design specialization or if they have professional design experience.
• All applicants must submit a portfolio of design work for review. Applicants with a planning background may also satisfy the design requirement by taking a preliminary make-up year in design in the Faculty of Architecture, Landscape, and Design.

General Program Requirements
• Students study full-time, taking all required courses in each given session. A B- grade in two design studio courses or a B- grade in any three courses will normally result in a recommendation to the School of Graduate Studies to terminate the student's candidacy for the degree program.
• There is no language requirement other than proficiency in English. Writing support is integrated into the program in order to develop specialized skills in writing which are essential to effective learning and communication in the design fields.

Specific Program Requirements
• Students must take a total of 10.0 full-course equivalents (FCEs) as follows:
  o 7.0 FCEs in core courses
  • 1.0 FCE design studio
  • 2.0 FCEs option design studio
  • 0.5 FCE thesis preparation and research course
  • 1.5 FCEs design thesis
  • 0.5 FCE History, Theory, Criticism course
  • 1.5 FCEs other courses
  o 3.0 FCEs in electives, of which 1.0 FCE must be selected from offerings in the History, Theory, Criticism category.

Normal Program Length: 4 sessions full-time
Time Limit: 3 years full-time

Course List
Consult the department regarding course availability.

Core Courses

DESIGN
URD 1011Y Urban Design Studio
URD 1012Y Urban Design Studio Options
URD 2012Y Independent Studio in Urban Design (may be undertaken in lieu of an option studio)
URD 2013Y Urban Design Studio Options
URD 2015Y Urban Design Studio Thesis

HISTORY, THEORY, CRITICISM
URD 1031H Urban History, Theory, Criticism

OTHER
URD 1021H Urban Design Computation
URD 1044H Urban Design and Development
URD 2014H Thesis Research and Preparation
URD 2041H Business and Land Use Planning in Real Estate Development

Elective Courses
Not all elective courses are offered every year. Please check the timetable available from the program office in August.
HISTORY, THEORY, CRITICISM
URD 1032H Urban Design in the History of the Post-Industrial World
URD 1033H Urban Design Culture and Media
URD 1035H Selected Topics in Urban Design
OTHER
URD 1022H Topics in Computer-Aided Urban Design
URD 1042H Urban Design and Environmental Systems
URD 1043H Independent Study in Urban Design

Graduate Faculty

Full Members
Danahy, John - BLA, MRP
El-Khoury, Rodolphe - BFA, BArch, MArch, MA, PhD
Farhat, Georges - MSc, MA
Kesik, Ted - BASc, MASc, DPhil
Levit, Robert - BA, MArch
Liu, An Te - BA, MArch
Lobsinger, Mary Lou - BArch, BES, BA, MES, PhD
Sommer, Richard - BFA, BArch, MArch (Dean)
Williamson, Robert Shane - BArch, MArch
Wolff, Jane - AB, MLA
Wright, Robert - BSc, MLA

Members Emeriti
Baird, George - BArch
Richards, Larry - BArch, MArch
van Ginkel, Blanche - BArch, MCP

Associate Members
Bessai, Tom - BArch, AB, MArch
Blackwell, Adrian - BArch, BES, MArch UD
Celik, Zeynep - MArch, PhD
Chaouni, Aziza - BSCCE, MArch
Fong, Steven - BArch, MArch
Lieberman, David - DiplIngArch, BFA
Margolis, Liat - MLA
May, John Joseph - BA, MArch, PhD
Moukheiber, Carol Leila - BArch, BA
North, Alissa - BLA, MLA
North, Peter - BLA, MLA
Payne, Andrew - BA, MA, PhD
Petricone, Pina - MArch
Sampson, Barry - BArch
Shim, Brigitte - BES, BAR
Shnier, John - BArch, BES
White, Mason - BArch, MArch
Faculty Affiliation
Arts and Science

Degree Programs Offered
History of Art – MA, PhD
Fields:
  Ancient
  Medieval
  Renaissance & Baroque
  Modern

Visual Studies – MVS
Fields:
  Studio
  Curatorial Studies

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Book History and Print Culture
   • History of Art, MA, PhD
   • Visual Studies, MVS
2. Diaspora and Transnational Studies
   • History of Art, MA, PhD
3. Jewish Studies
   • History of Art, MA, PhD
4. Knowledge Media Design
   • Visual Studies, MVS
5. Sexual Diversity Studies
   • History of Art, MA, PhD
   • Visual Studies, MVS

Overview
The Master of Arts program is a course-based and research-intensive degree designed to prepare History of Art students for curatorial work, art consultation, heritage programs, cultural journalism, secondary school teaching, and doctoral research.

The Doctor of Philosophy program is designed to prepare History of Art students for college and university teaching, museum curatorships, and other research positions.

The Master of Visual Studies is a two-year, full-time professional program with two fields: Studio (which prepares students to further their visual art practice) and Curatorial Studies (which prepares students for a contemporary curatorial practice in the visual arts).

Contact and Address
Web: www.art.utoronto.ca
Email: Gaby Sparks at gaby.binette@utoronto.ca
Telephone: (416) 946-3960
Fax: (416) 978-1491
Graduate Department of Art
University of Toronto
Sidney Smith Hall
Room 6037A, 100 St. George Street
Toronto, Ontario M5S 3G3
Canada

Degree Programs

History of Art

Master of Arts
Minimum Admission Requirements
• Students are accepted under the General Regulations of the School of Graduate Studies.
• Strong overall grade average in history of art and closely related subjects and at least B+ average in recent senior art history courses. Outstanding applicants with other backgrounds may be considered.

Program Requirements
• 3.0 graduate full-course equivalents (FCEs); coursework must be chosen from at least three of four areas: Ancient, Medieval, Renaissance/Baroque, Modern. No more than 2.0 FCEs may be taken in any one of these areas. The equivalent of 1.0 FCE may be taken in another graduate department (e.g., Medieval Studies, Near and Middle Eastern Civilizations), subject to approval of the Department of Art and the other department concerned.
• Reading knowledge of French, German, or Italian; tested in the first session.
• Orientation to Art Historical Research Methods must be taken in first year.

Normal Program Length: 3 sessions full-time; 6 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy
Minimum Admission Requirements
• Minimum A- average in MA
• Direct entry from BA with exceptionally strong academic record; minimum grade average of A- in art history and humanities courses in last two years.
• Reading knowledge of French, German, or Italian; tested in the first session.
• One or more additional language(s) may be required; students unable to meet language requirements for particular courses may be refused admission to courses; enrolment in all courses is limited and subject to instructor’s approval.
• Students without a MA in Art from the University of Toronto may be required to complete at least 1.0 additional full-course equivalent (FCE).
• Acceptance limited to students who propose theses corresponding to research expertise of faculty. See faculty research profiles at www.art.utoronto.ca/people.

Program Requirements
• Students with an MA take at least 2.0 full-course equivalent (FCEs) of graduate courses. MA and PhD courses combined should be in three of the following four areas: Ancient, Medieval, Renaissance/Baroque, Modern. Courses crossing boundaries will count as one area only.
• Students with a BA must take a minimum of 4.5 FCEs in art history and maintain an average grade of at least an A-.
• Orientation to Art Historical Research Methods must be taken in first year.
• FAH 1001H Methods of Art History, a departmental methodology course, must be taken in first year. With departmental approval, credit may be given for a research methodology course taken previously at the University of Toronto or elsewhere.
• At the end of the first and second years, students’ progress will be reviewed to ensure that they have made satisfactory progress through the program; this includes maintaining full-time status with a GPA of at least A- and completion of all language requirements.
• Students must pass examinations in two languages (German, French, or Italian) by the end of second year, if they have not already done so in the MA. Students focusing on Ancient, Medieval, and Renaissance/Baroque will normally be expected to pass the examination in German as one of their two languages. The appropriate languages will be set by the interim supervisor in consultation with the Director of Graduate Studies, and additional languages may be required depending on the research needs of the student’s dissertation topic. Language requirements must be completed prior to taking the comprehensive exams.
• Within the first two years for students entering with an MA, or three years for students entering with a BA, students are required to take a three-part comprehensive examination, the first part focusing on one of the four areas, the second on the dissertation field, and the third (oral) discussing the first two. Upon the completion of all coursework and language requirements, PhD students must seek out and secure the participation of a prospective supervisor with whom they will discuss plans for the comprehensive examinations. The student will meet with the Examination Committee (normally made up of at least three members of the department—one of whom will be the prospective dissertation supervisor—and chaired by the Director of Graduate Studies or designate) in order to define the areas of the examination, the length of study, and such readings and special topics as deemed appropriate.
• Immediately following successful completion of comprehensive examinations, students must formally establish their PhD Advisory Committee. This will include the faculty member acting as the dissertation supervisor, and two other graduate faculty members. These arrangements must be approved by the department’s Graduate Program Committee.
• Working with the PhD Advisory Committee, the student will develop a detailed proposal for their research. The length and specific nature of the proposal will be determined by the Advisory Committee and the PhD student. The drafted proposal must be approved, first by the Advisory Committee, and then by the department’s Graduate Program Committee. At some point during the dissertation stage, students will present their work to the faculty and students in an appropriate format and at a time to be determined by the supervisor in consultation with the Director of Graduate Studies.

Normal Program Length: 6 years full-time; 7 years direct-entry
Time Limit: 5 years full-time; 7 years direct-entry

Course List
Not all courses are offered each year. Check departmental website for course availability under current timetable.

Methods
FAH 1001H Methods of Art History

Ancient
FAH 2006H Art and Archaeology of the Prehistoric Aegean
FAH 2017H Art and Archaeology of the Everyday
FAH 2018H Art and the Aegean Bronze Age: Contemporary Perspectives
FAH 2021H Myth and Fantasy in Roman Painting
FAH 2033H Triumphal Forms
FAH 2034H Topics in Roman Imperial Art
FAH 2039H The Roman Reception of Greek Art: Image Transfer and Cultural Translation

Medieval
FAH 1120H Medieval Pilgrimage Art and Architecture
FAH 1121H 12th-Century Renaissance?
Degree and Diploma Programs by Graduate Unit

FAH 1123H  The Art of the Medieval Book
FAH 1124H  Byzantine Church Decoration
FAH 1125H  Medieval Pilgrimage Art and Architecture
FAH 1126H  Exceptional Cities of the Middle Ages
FAH 1127H  Early Medieval Art
FAH 1128H  Byzantine Art and the West
FAH 1131H  Profane Medieval Art
FAH 1134H  Communal Painting and Propaganda in Italy during the 13th and 14th Centuries
FAH 1135H  Naples in the Later Middle Ages
FAH 1142H  Multicultural Middle Ages
FAH 1200H  Crusader Art

Renaissance and Baroque
FAH 1201H  Art, Space and Ritual in Renaissance Convents
FAH 1221H  Inside the Painter’s Studio
FAH 1224H  Renaissance in Miniature
FAH 1226H  Architecture and Alchemy Before Modernism
FAH 1299H  Heinrich Wölfflin’s Principles of Art History (1915) @ 100: A Worldwide Reception
FAH 1240H  Art Biography
FAH 1243H  The Economic Lives of Renaissance and Baroque Artists
FAH 1246H  Renaissance Gothic: Architecture and the Arts 1460–1540
FAH 1249H  Margaret of Austria and the Renaissance in the Netherlands
FAH 1288H  Gianlorenzo Bernini

Modern
FAH 1410H  Artwriting, Past and Present
FAH 1420H  Theories of the Sublime in Art
FAH 1458H  Viewing History: The Visual Experience of the Past, 1750–1900
FAH 1459H  Photography, Illusion, and Knowledge in 19th-Century Europe
FAH 1464H  The Recalcitrant Icon
FAH 1465H  Orientalism
FAH 1471H  The Aesthetics of Democracy
FAH 1474H  Avant-Garde, Neo-Avant-Garde
FAH 1475H  Picasso
FAH 1477H  Psychoanalysis and the Visual
FAH 1478H  Art and Animation
FAH 1490H  Art and Intersubjectivity
FAH 1492H  Retreating the Aesthetic
FAH 1493H  Queer Sexuality, Visuality & Theory
FAH 1494H  The Archive: Logics, Limits, Remains
FAH 1520H  Photography & Modernism
FAH 1752H  The Circulation of Architectural Knowledge
FAH 1800H  James Wilson Morrice
FAH 1801H  Portraiture in Canada: 1750–1870
FAH 1870H  Recent Canadian Art in International Perspective
FAH 1901H  Tom Thomson
FAH 1910H  Contemporary Art of South Asia and its Diaspora
FAH 1920H  Primitivism to Globalism: Theories of Otherness in Modern and Contemporary Arts
FAH 1921H  GeoAesthetics
FAH 1923H  Modernist Exiles in Postcolonial Perspective
FAH 1930H  Contemporary Art Since 1960
FAH 1931H  Contemporary Art: Theory and Criticism
FAH 1932H  Paradigmatic Exhibitions: History, Theory, Criticism
FAH 1933H  Canadian Artists: Michael Snow
FAH 1934H  Cosmopolitan/Comparative Modernisms
FAH 1951H  Contemporary Chinese Art and its Discontents

Reading Courses
FAH 3000H,Y Special Studies in History of Art (Only 1.0 FCE with this prefix is permitted in any one degree program.)
FAH 3011H  Readings in Ancient Art
FAH 3012H  Readings in Medieval Art
FAH 3013H  Readings in Renaissance and Baroque Art
FAH 3014H  Readings in Modern and Contemporary Art

Research Paper
FAH 4000Y  Research Paper

Undergraduate/Graduate Courses
Periodically, the department may offer fourth-year undergraduate courses that have been recognized for graduate credit. Please visit the departmental website and discuss with the Graduate Coordinator.

Relevant Courses in Other Departments
EAS 1229H  Topics in Chinese Aesthetics
EAS 1339H  Topics in Chinese Art Theories
MSL 2240H  The Photographic Record
NMC 2500Y  Introduction to Islamic Art and Architecture
NMC 2520H  Western Medieval Islamic Architecture
NMC 2521H  The Taj Mahal and Its Origins: Medieval Islamic Architecture in Iran, Central Asia, and India
NMC 2526H  Islamic Painting
NMC 2527H  Islamic Decorative Arts

Visual Studies

Master of Visual Studies

Minimum Admission Requirements
- An appropriate bachelor’s degree (BA, BSc) with significant coursework in humanities and cultural theory from a recognized university, or an appropriate BFA degree from a recognized university.
- Overall average of at least a B+.
- Applications must include:
Degree and Diploma Programs by Graduate Unit

○ artist’s statement that includes a description of the proposed body of work in studio or curatorial to be undertaken during the two-year program
○ full curriculum vitae with details of exhibition, professional activity, and education;
○ documentation of recent studio or curatorial work
○ three letters of recommendation

- Applicants to the MVS Studio program must present a portfolio with documentation of their artworks (video on VHS or DVD) and/or up to 20 slides or images on CD, and/or video documentation of performance or installation. Applicants will also include a fully annotated listing for all portfolio materials that provides detailed information about media, year of production, dimensions, part of a series, full running length (in the case of media artworks), circumstances of display (in the case of installations works and performance works). Details are available on the program’s website.
- Applicants to the MVS Curatorial Studies program must present a sample of curatorial or critical writing (published or unpublished), exhibition brochures, announcement cards and/or catalogues from curatorial work.

- Facility in English language must be demonstrated by all applicants educated outside Canada whose primary language is not English and who graduated from a university where the primary language of instruction and examination was not English.

Program Requirements

- Full-time program normally begins in September.
- MVS Studio and Curatorial Studies: 4.5 full-course equivalents (FCEs) from list below in MVS and 1.5 FCEs in outside electives.
- MVS Studio students are supervised by an Advisory Panel made up of the Graduate Coordinator of the MVS program, a studio faculty member of the MVS program who is considered the student’s Principal Advisor, a second MVS studio faculty member, and possibly another graduate faculty member (not necessarily a member of the MVS program).
- MVS Curatorial Studies students are supervised by an Advisory Panel made up of a member of the graduate faculty who will be considered to be the student’s Principal Advisor, the Graduate Coordinator of the MVS program or their designate and one of the University of Toronto’s curators or outside curator as appropriate.
- MVS Proseminar, a no-credit course that normally meets biweekly.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Course List

MVS Studio Courses
VIS 1001H Interdisciplinary Studio Practicum/Critiques I
VIS 1003H Interdisciplinary Studio Practicum/Critiques II
VIS 1004H Internship
VIS 1010H Contemporary Art Since 1960
VIS 1020H Contemporary Art: Theory and Criticism
VIS 2001H Studio Practicum/Critiques III
VIS 2002H MVS Contemporary Art Issues
VIS 2003Y MVS Project

MVS Curatorial Studies Courses
VIS 1101H Paradigmatic Exhibitions: History, Theory, Criticism
VIS 1010H Contemporary Art Since 1960
VIS 1020H Contemporary Art: Theory and Criticism
VIS 1102H Curatorial Studies Collaborative Project
VIS 1004H Internship
VIS 2002H MVS Contemporary Art Issues
VIS 2101Y MVS Curatorial Studies Exhibition Research
VIS 2102H MVS Curatorial Research

Graduate Faculty

Full Members
Anderson, Christy - BA, MA, PhD
Bear, Jordan - BA, MA, MPH, PhD
Caskey, Jill - AB, MA, MPH, PhD
Cheetham, Mark - BPhil, MA, PhD
Cohen, Adam - PhD
Ewald, Bjorn - AM, PhD
Gu, Yi - BLitt, MMSt, PhD
Harney, Elizabeth - AB, MA, PhD
Hawken, George - BA
Jain, Kajri - PhD
Kaplan, Louis - AB, AM, DPhil
Kavalier, Ethan Matt - PhD
Knappett, Carl - MA, PhD (Director of Graduate Studies; Associate Chair)
Legge, Elizabeth MM - BA, BA, MA, PhD (Chair and Graduate Chair)
Levy, Evonne - MFA, PhD
Lloyd, Sue - BA, MFA
Massey, John - AA
Periti, Giancarla - PhD
Pien, Edward - BFA, MFA
Purtle, Jennifer - BA, MPH, MA, PhD
Reid, Dennis - BA, MA
Ricco, John - BA, MA, PhD
Schelle, Susan - BFA
Sohm, Philip - BA, MA, PhD
Steele, Lisa - BA
Syme, Alison - PhD
Tod, Joanne - AA
Tomczak, Kim - AA
Wittasalo, Shirley
Wollesen, Jens - PhD
Members Emeriti
Eleen, Luba - BA, MA, PhD
Richardson, Douglas - BA, MA, PhD
Scavizzi, Giuseppe - PhD
Shaw, Joseph - BA, MAT, PhD
Shaw, Maria - PhD
Winter, Frederick - BA, PhD

Associate Members
Abray, L Jane - BA, MA, MPH, PhD
Bartlett, Kenneth - BA, MA, PhD
Fischer, Barbara - BFA, MA
Hlynsky, David - BFA
Kwan, Will - BA, MFA
MacDonald, Ann - BA
Astronomy and Astrophysics

Faculty Affiliation
Arts and Science

Degree Programs Offered
Astronomy and Astrophysics – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Astrophysics
   - Astronomy and Astrophysics, MSc

Overview
The Department of Astronomy and Astrophysics is actively engaged in a wide range of observational and theoretical research on solar system dynamics, stars, stellar systems, the interstellar medium, the Galaxy, galaxies, quasars, clusters of galaxies, cosmology, and problems in general relativity. The department has close ties with the Canadian Institute for Theoretical Astrophysics (CITA) and the Dunlap Institute for Astronomy and Astrophysics (DIAA), which further enhance the opportunities for our students to interact with leading researchers.

Faculty and students use the major optical, radio, and satellite observing facilities of the world. Of particular importance are the national facilities: the Canadian France-Hawaii optical telescope, the James Clerk Maxwell radio telescope, and the Gemini telescopes located at the world’s finest observing sites.

The Herschel Space Observatory and Planck were launched recently and will soon be followed by the James Webb Space Telescope, ALMA, and the Thirty Metre Telescope. We have an active experimental program using telescopes on long-duration stratospheric balloons and a complementary program designing and building instrumentation for large optical telescopes, and for cosmological and Galactic research.

There are approximately 100 faculty, post-doctoral fellows, graduate students, and staff in the Department of Astronomy and Astrophysics, CITA, and DIAA. Students benefit from direct interactions with the broad range of external speakers invited to weekly seminar programs and colloquia.

Contact and Address
Web: www.astro.utoronto.ca
Email: grad.sec@astro.utoronto.ca
Telephone: (416) 978-2016
Fax: (416) 971-2026

Degree Programs
Astronomy and Astrophysics

Master of Science
Minimum Admission Requirements
- Students are accepted under the General Regulations of the School of Graduate Studies. Applicants must hold an appropriate bachelor’s degree with high academic standing from a recognized university. Applicants educated outside Canada should pay particular attention to the English-language competency requirements.
- Because many universities do not offer extensive undergraduate training in astronomy and astrophysics, preparation in physics and mathematics is an acceptable background.
- All applicants are strongly advised to take the General Test and Physics Test of the Graduate Record Examination (GRE) administered by the Educational Testing Service, Princeton.

Program Requirements
- 2.0 required full-course equivalents (FCEs): AST 1501Y and AST 1500Y, with different supervisors. Students are immediately engaged in original research throughout these two required research courses. An oral exam by committee is held for each. AST 1501Y is normally completed during the fall/winter of the first year, and AST 1500Y is completed in the following summer.
- Minimum of 1.0 FCE (two half courses) from the AST preparatory, elective, or specialized courses, subject to the approval of the instructor, the student’s MSc program committee, and the department.
- More courses may be taken for credit or audited as appropriate.

Normal Program Length: 5 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy
Minimum Admission Requirements
- Students are accepted under the General Regulations of the School of Graduate Studies.
Applicants educated outside Canada should pay particular attention to the English-language competency requirements.

- Students accepted into the PhD program through one of two routes:
  1. An appropriate master’s degree, or its equivalent, with an average of at least B+ or demonstrated comparable research competence.
  2. Directly from a bachelor’s degree, with an average in the final two years equivalent to a University of Toronto A- or better from a recognized university.

- Because many universities do not offer extensive undergraduate training in astronomy and astrophysics, preparation in physics and mathematics is an acceptable background.

- All applicants are strongly advised to take the General Test and Physics Test of the Graduate Record Examination (GRE) administered by the Educational Testing Service, Princeton.

Program Requirements

- Students are normally expected to be on campus full-time for the duration of the program.
- Students with an MSc degree in Astronomy and Astrophysics from the University of Toronto, or a MSc degree in another appropriate discipline or from elsewhere deemed equivalent by the department, may apply for admission to the four-year PhD program. Requirements for the four-year PhD program are identical to those for the five-year program, except for the courses. There is no minimum course requirement in the four-year program except for courses deemed necessary by the student’s PhD committee.
- 2.0 full-course equivalents (FCEs): AST 1501Y and AST 1500Y, with different supervisors. Students are immediately engaged in original research throughout these two required research courses. AST 1501Y is normally completed during the fall/winter of the first year, and AST 1500Y is completed in the following summer. An oral exam by committee is held for each.
- 400#Y (in sequence of the last digit: 2, 3, etc.) Students register each year, beginning in the second year, in the research course AST 400#Y.
- Written PhD thesis proposal, defended in a doctoral final oral examination conducted by a panel of faculty members. The intention of this “qualifying examination” is to assess the student’s ability and readiness to carry forward and successfully complete independent PhD-level research. This assessment is based on the student’s graduate record to date, including graduate lecture courses and research performed, together with the presentation and defense of the proposed PhD thesis. The qualifying examination is taken after four and within five sessions of beginning the program.
- A minimum of 2.0 FCEs from the AST Preparatory, Elective, or Specialized courses, and courses of equivalent levels from a cognate department, subject to the approval of the student’s Program/PhD Committees, the instructor, and the department. More courses may be taken for credit or audited as appropriate.
- A thesis embodying the results of original research which must be submitted for appraisal in accordance with the regulations of the School of Graduate Studies.

Normal Program Length: 4 years full-time; 5 years direct-entry

Time Limit: 6 years full-time; 7 years direct-entry

Course List

Preparatory Courses
AST 1410H Stars
AST 1420H Galactic Structure and Dynamics
AST 1430H Cosmology
AST 1440H Radiation Processes and Gas Dynamics

Research Courses
AST 1500Y+ Directed Research
AST 1501Y Introduction to Research
AST 400*Y+ Research (*Students register each year, beginning in the second year, in sequence of the last digit: 2, 3, etc.)

Elective Courses
AST 2010H Physics of Stellar Atmospheres
AST 2020H Physics of Stellar Interiors
AST 2030H Interstellar Medium and Star Formation
AST 2040H Extragalactic Astronomy
AST 2050H Observational Techniques
AST 2060H General Relativity I: Theory
AST 2070H General Relativity II: Applications and Cosmology

Specialized Courses
AST 3010H Advanced Topics in Stellar and Galactic Astronomy I
AST 3011H Advanced Topics in Stellar and Galactic Astronomy II
AST 3020H Advanced Topics in Interstellar Matter and Star Formation I
AST 3021H Advanced Topics in Interstellar Matter and Star Formation II
AST 3030H Advanced Topics in Extragalactic Astronomy and Cosmology I
AST 3031H Advanced Topics in Extragalactic Astronomy and Cosmology II
AST 3050H,Y Theoretical Cosmology

* Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Degree and Diploma Programs by Graduate Unit

AST 3100H Lecture Series in Specialized Topics (mini courses)

Supplementary Research for PhD Students
AST 3500H Non-thesis Research Project in Astronomy/Astrophysics

Graduate Faculty

Full Members
Abraham, Roberto - BSc, DPhil (Associate Chair, Graduate)
Artymowicz, Pawel - MS, PhD
Bond, J Richard - BSc, MS, PhD, Fell Royal Society
Canada, Fell Royal Society London
Carlberg, Raymond - BSc, MS, PhD
Dyer, Charles - BS, MSc, PhD
Graham, James - DIC, BSc, PhD, Assoc Royal Coll of Sci
Jayawardhana, Ray - BS, PhD
Lester, John - BA, MS, PhD
Lowman, Julian - BSc, MS, DPhil
Martin, Peter - BSc, MSc, PhD
Matzner, Christopher - BA, MA, PhD
Mochnacki, Stefan - BSc, MSc, PhD
Moon, Dae-Sik - BS, MS, PhD
Murray, Norman - BSc, PhD
Netterfield, C. Barth - BSc, PhD
Pen, Ue-Li - BSc, PhD
Pfeiffer, Harald - PhD
Thompson, Christopher - BSc, PhD
van Kerkwijk, Marten - MA, PhD
Wu, Yanqin - PhD
Yee, Howard - BASc, PhD, Fell Royal Society Canada
(Chair and Graduate Chair)

Members Emeriti
Bolton, Charles - BS, MS, PhD
Clement, Christine - BSc, MA, PhD
Clement, Maurice - BSc, MSc, PhD
Fernie, John - BSc, MSc, PhD, Fell Ryl Astronom Society
Garrison, Robert - BA, PhD
Percy, John - BSc, MA, PhD
Seaquist, Ernest - BASc, MSc, PhD

Associate Members
Dubinski, John - BSc, MSc, PhD
Rucinski, Slavek - MS, PhD, DSc
Biochemistry

Faculty Affiliation
Medicine

Degree Programs Offered
Biochemistry – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Biomedical Engineering
   - Biochemistry, MSc, PhD
2. Biomolecular Structure
   - Biochemistry, PhD
3. Developmental Biology
   - Biochemistry, MSc, PhD
4. Genome Biology and Bioinformatics
   - Biochemistry, PhD
5. Neuroscience
   - Biochemistry, MSc, PhD

Overview
Biochemistry is the study of the molecular events underlying biological processes. Consequently it makes fundamental contributions to all disciplines concerned with living systems.

The department offers modern facilities for research leading to the Master of Science and Doctor of Philosophy degrees in a wide variety of areas including the relationship between structure and biological function in proteins, nucleic acids, and lipids as well as complex multi-component systems such as membranes and subcellular organelles.

Contact and Address
Web: http://biochemistry.utoronto.ca
Email: carrie.harber@utoronto.ca
Telephone: (416) 978-2702
Fax: (416) 946-8228
Department of Biochemistry
University of Toronto
Room 5205, Medical Sciences Building
Toronto, Ontario MSS 1A8
Canada

Degree Programs

Biochemistry

Master of Science

Minimum Admission Requirements

- Normally, minimum B+ average in last two years of study in an honours/specialist BSc program in biochemistry/molecular biology. Students with strong academic credentials in honours/specialist programs in disciplines related to biochemistry/molecular biology also considered.
- Applicant arranges for personal reference forms from three individuals familiar with academic performance.
- Applicants who obtained a degree outside Canada are generally required to have an MSc degree in biochemistry or in a closely related subject area and must arrange for general GRE examination results to be sent to the department.
- Applicants from outside Canada whose primary language is not English and who graduated from a university where the language of instruction was not English must provide TOEFL (Test of English as a Foreign Language) and TWE (Essay Writing) scores.
  - Paper-based TOEFL: minimum 580 score and 5 on the TWE.
  - Internet-based TOEFL: minimum 93/120 score and 22/30 on the writing and speaking sections.
- In the absence of TOEFL results, an IELTS score of at least 7 is also acceptable.

Program Requirements

- Complete any courses that were a condition of acceptance
- Complete a 0.5 full-course equivalent (FCE) from the following list: BCH 2021H Selected Topics in Biochemistry; BCH 2027H Membrane Proteins: Structure, Function, and Disease; BCH 2028H Protein Quality Control and Trafficking within the Secretory Pathway; BCH 2029H Protein Folding and Disease; BCH 2030H Molecular Aspects of Cell Signalling; or BCH 2024H Focused Topics in Biochemistry.
- Participate in BCH 2020Y Master's Seminar Course in Biochemistry.
- Thesis and successful completion of an oral examination on his or her research and related aspects of biochemistry.
- Normally, MSc students are expected to participate as full-time students and to maintain full-time status in their laboratories until thesis completion and final defence.

0 Course that may continue over a program. The course is graded when completed.
Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicant arranges for personal reference forms from three individuals familiar with academic performance.
- Applicants who obtained a degree outside Canada are generally required to have an MSc degree in biochemistry or in a closely related subject area with high academic standing and must arrange for general GRE examination results to be sent to the department.
- Applicants from outside Canada whose primary language is not English and who graduated from a university where the language of instruction was not English must provide TOEFL (Test of English as a Foreign Language) and TWE (Essay Writing) scores.
  - Paper-based TOEFL: minimum 580 score and 5 on the TWE.
  - Internet-based TOEFL: minimum 93/120 score and 22/30 on the writing and speaking sections.
- Students accepted into the PhD program through one of three routes:
  1. via reclassification from the MSc program;
  2. on completion of an MSc degree in biochemistry or a cognate discipline;
  3. directly from a BSc if, in the opinion of the Biochemistry Graduate Committee, the student has an outstanding academic record.
- The latter two categories require the student to successfully complete a qualifying examination within the first 18 months.

Program Requirements

- Complete any courses that were a condition of acceptance.
- Complete 1.5 internal or external (from cognate departments) graduate-level courses, including at least one 0.5 FCE from the following list:
  BCH 2021H Selected Topics in Biochemistry;
  BCH 2027H Membrane Proteins: Structure, Function, and Disease;
  BCH 2028H Protein Quality Control and Trafficking within the Secretory Pathway;
  BCH 2029H Protein Folding and Disease;
  BCH 2030H Molecular Aspects of Cell Signalling;
  BCH 204H+ Focused Topics in Biochemistry.
- Students may fulfill the 1.5-FCE course requirement entirely from this list.
- Participate in BCH 2022Y Doctoral Seminar Course in Biochemistry.
- Submit a thesis and defend it at the doctoral final oral examination.
- Normally, PhD students are expected to participate as full-time students and to maintain full-time status in their laboratories until thesis completion and final defence.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List

For course details and availability, consult the department’s website.

BCH 1371H Laboratory Course in Biochemistry (BCH 371)$
BCH 1422H Membrane Proteins: Structure and Function—Lectures (BCH 422H)$
BCH 1426H Regulation of Signalling Pathways—Lectures (BCH 426H)$
BCH 1440H Protein Biosynthesis—Lectures (BCH 440H)$
BCH 1441H Bioinformatics (BCH 441H)$
BCH 1471Y Advanced Biochemistry—Laboratory (BCH 471Y)$ (prerequisite is BCH 371$ or equivalent)
BCH 2020Y Master’s Seminar Course in Biochemistry (Credit/No Credit)
BCH 2021H Selected Topics in Biochemistry: Advanced lectures to supplement the above lower-numbered courses in Biochemistry
BCH 2027H Membrane Proteins: Structure, Function, and Disease
BCH 2028H Protein Quality Control and Trafficking within the Secretory Pathway
BCH 2029H Protein Folding and Disease
BCH 2030H Molecular Aspects of Cell Signalling
BCH 2022Y Doctoral Seminar Course in Biochemistry (Credit/No Credit)
BCH 2024H Focused Topics in Biochemistry
JBB 1425H Structural Biology: Principles and Practice—Lectures (BCH 425H)$
JBB 2025H Protein Crystallography—Lectures
JBB 2026H Protein Structure, Folding and Design
JBI 1428H Molecular Immunology—Lectures (JBI 428H)$
JBL 1507H Biochemistry of Inherited Disease
JNP 1017H Molecular and Biochemical Basis of Toxicology
JNP 1018H Current Topics in Molecular and Biochemical Toxicology

§ Arts and Science undergraduate course
$ Course that may continue over a program. The course is graded when completed.
+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Degree and Diploma Programs by Graduate Unit

JNR 1444Y  Fundamentals of Neuroscience: Cellular and Molecular—Lectures (PSL 444Y)
JTB 2010H  Proteomics and Functional Genomics
JTB 2020H  Applied Bioinformatics

Graduate Faculty

Full Members
Adeli, Khosrow - DipChem, MSc, PhD
Attisano, Liliana - BSc, PhD
Baker, Robert - BSc, PhD
Bazett-Jones, David - BSc, MSc, PhD
Bear, Christine - BSc, MSc, PhD
Brown, Grant - BSc, PhD
Callahan, John - BSc, MSc
Chakrabarty, Avijit - BSc, MSc, PhD
Chan, Hue Sun - BSc, MA, PhD
Clarke, David - PhD
Davidson, Alan Richard - BSc, PhD
Deber, Charles - BSc, PhD
Forman-Kay, Julie - BSc, PhD
Glover, John - BSc, MSc, PhD
Grinstein, Sergio - BSc, PhD
Houry, Walid - BS, MS, PhD
Howell, Lynne - BSc, PhD
Ingles, C James - BSc, PhD
Isenman, David - BSc, BSc, PhD
Jorgensen, Annelise - MSc, PhD
Kay, Lewis - PhD
Keeley, Frederick - BSc, PhD
Klip, Amira - ScD
Lewis, Peter - BSc, PhD
Lingwood, Clifford - BSc, PhD
Maclennan, David - BSc, MSc, PhD
Manolson, Morris - PhD
McQuibban, Angus - BSc, MSc, PhD
Moraes, Trevor - BS, MSc, PhD
Moran, Laurence - BSc, PhD
Pai, Emil - PhD
Palazzo, Alexander - PhD
Parkinson, John - BS, PhD
Pomes, Regis - PhD
Privé, Gil - BSc, PhD
Pulleyblank, David - BSc, PhD
Rand, Margaret - BSc, PhD
Reithmeier, Reinhart - BSc, PhD (Chair and Graduate Chair)
Rini, James - BSc, PhD (Coordinator of Graduate Studies)
Robinson, Brian - BSc, PhD
Rotin, Daniela - BSc, MSc, PhD
Rubinstein, John - BSc, PhD
Rubinstein, John L - BSc, PhD
Segall, Jacqueline - BSc, PhD
Sharpe, Simon J - BSc, PhD
Siu, Chi-Hung - BA, PhD
Smibert, Regis - BSc, PhD
Stagljar, Igor - BS, PhD
Steipe, Boris - MD, PhD
Trimble, William - BSc, PhD
Volchuk, Allen - BSc, PhD
Williams, David - BSc, MSc, PhD
Wodak, Shoshana - LicScChem, PhD
Yip, Christopher - BSc, PhD

Members Emeriti
Anwar, Rashid - BSc, MSc, PhD
Bennick, Anders - DipPerio, MSc, DDS, PhD
Gurd, James - BA, PhD
Lane, Byron - BA, PhD
Marks, Alexander - MD, PhD
Moscarello, Mario - BA, MD, PhD
Murray, Robert - MS, MD, MB, PhD
Packham, Marian - PhD
Painter, Robert - BSc, PhD
Sarkar, Bibudhendra - BPhm, MPharm, PhD
Schachter, Harry - BA, MD, PhD
Williams, George - BSc, DSc, DSc, Fell Royal Society Canada
Biomedical Engineering

Faculty Affiliation
Applied Science and Engineering

Degree Programs Offered
Biomedical Engineering – MASc, PhD
Clinical Engineering – MHSc

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Addiction Studies
   - Biomedical Engineering, MASc, PhD
2. Cardiovascular Sciences
   - Biomedical Engineering, MASc, PhD
3. Genome Biology and Bioinformatics
   - Biomedical Engineering, PhD
4. Health Care, Technology and Place
   - Biomedical Engineering, PhD
5. Neuroscience
   - Biomedical Engineering, MASc, PhD
6. Resuscitation Sciences
   - Biomedical Engineering, PhD
   - Clinical Engineering, MHSc

Overview
The Institute of Biomaterials and Biomedical Engineering (IBBME) offers facilities for research in biomedical engineering and for three educational programs leading to master’s and doctoral degrees. Students may be registered in the Biomedical Engineering Program or in the Clinical Engineering Program through the Institute. Students interested in the Collaborative Program in Biomedical Engineering may register through one of the collaborating graduate units.

Biomedical engineering is a multidisciplinary field that integrates engineering and biology/medicine. It uses methods, principles, and tools of engineering, physical sciences, and mathematics to solve problems in the medical and life sciences for the study of living systems; the enhancement and replacement of those systems; the design and construction of systems to measure basic physiological parameters; the development of instruments, materials, and techniques for biomedical and medical practice; and the development of artificial organs and other medical devices. By its nature, the majority of the Institute's work is interdisciplinary.

Research themes include diagnostic and therapeutic engineering, technology for health, and cellular and molecular bioengineering. Specific interests include neural and sensory systems engineering, molecular imaging, nanotechnology and microtechnology, biomaterials, rehabilitation engineering, cellular and tissue engineering, regenerative medicine proteomics and bioinformatics.

Contact and Address
Web: www.ibbme.utoronto.ca

Institute of Biomaterials and Biomedical Engineering (IBBME) Graduate Office:
Email: admissions.ibbme@utoronto.ca
Telephone: (416) 978-4841
Fax: (416) 978-4317

Institute of Biomaterials and Biomedical Engineering
University of Toronto
Room 407, Rosebrugh Building
164 College Street
Toronto, Ontario M5S 3G9
Canada

Clinical Engineering Office:
Email: clinicaleng.ibbme@utoronto.ca
Telephone: (416) 978-6102
Fax: (416) 978-4317

Institute of Biomaterials and Biomedical Engineering
University of Toronto
Room 407, Rosebrugh Building
164 College Street
Toronto, Ontario M5S 3G9
Canada

Degree Programs

Biomedical Engineering

Master of Applied Science

Minimum Admission Requirements
- a bachelor’s degree in dentistry, engineering, medicine, or one of the physical or biological sciences

Program Requirements
- Program normally comprises at least 2.0 full-course equivalents (FCEs), including BME 1450H and an appropriate life science or engineering course.
  Engineering and physical science students take a life sciences course, such as JPB 1022H (or an equivalent); while life science students take a physical sciences course, such as JPB 1055H (or an equivalent).
- Students participate in two seminar courses: one of BME 1010H or BME 1011H Graduate Seminar series, and JDE 1000H Ethics in Research.
Degree and Diploma Programs by Graduate Unit

- Successful completion of a thesis in the biomedical engineering field.

**Normal Program Length:** 5 sessions full-time

**Time Limit:** 3 years full-time

**Doctor of Philosophy**

**Minimum Admission Requirements**
- a master’s degree in dentistry, engineering, medicine, or one of the physical or biological sciences
- Direct admission may be considered in exceptional cases.

**Program Requirements**
- Normally at least 1.0 full-course equivalent (FCE) and successful completion of a thesis, representing an original investigation in biomedical engineering.
- Within 12 months of registration, students must pass a qualifying examination covering the broad field of biomedical engineering appropriate to their background.
- Students will continue to meet with their supervisory committee at least once every 12 months until recommendation for the departmental oral examination is made. On the recommendation of the supervisory committee and special approval from their department Graduate Chair or Coordinator, candidates have the opportunity to waive the departmental oral examination and proceed directly to the doctoral final oral examination.
- Engineering and physical science students are required to take a life sciences course, such as JPB 1022H (or an equivalent); while life science students are required to take a physical sciences course, such as JPB 1055H (or an equivalent).
- Students pursue a thesis topic relevant to Biomedical Engineering and are expected to take BME 1450H Bioengineering Science.
- Students participate in two seminar courses: one of BME 1010H or BME 1011H Graduate Seminar series, and JDE 1000H Ethics in Research.

**Successful completion of a thesis in the clinical engineering field.**

**Normal Program Length:** 6 sessions full-time

**Time Limit:** 3 years full-time

**Course List**

Not all courses are offered every year. Students should contact the Institute office for information about course availability. Outlines of these and other closely related courses may be obtained from the Institute office.

- BME 1010H Graduate Seminar
- BME 1011H Graduate Seminar
- BME 1405H Clinical Engineering Instrumentation I
- BME 1436H Clinical Engineering Surgery
- BME 1439H Clinical Engineering Instrumentation II
- BME 1450H Bioengineering Science
- BME 1452H Signal Processing for Bioengineering
- BME 1453H Cell and Tissue Engineering
- BME 1454H Regenerative Medicine: Fundamentals and Applications
- BME 1456H Changing Health Care Technologies, People, and Places
- BME 1457H Biomedical Nanotechnology
- BME 1458H Pattern Discovery Methods for Biomedical Engineering
- BME 1459H Protein Engineering
- BME 1460H Quantitative Fluorescence Microscopy: Theory and Application to Live Cell Imaging
- BME 4444Y Practice in Clinical Engineering
- JCB 1349H Molecular Assemblies: Structure/Function/Properties
- JEB 1365H Ultrasound: Theory and Applications in Biology and Medicine
- JEB 1433H Medical Imaging
- JEB 1444H Neural Engineering
- JEB 1447H Sensory Communications
- JEB 1451H Neural Bioelectricity
- JPB 1022H Human Physiology as Related to Biomedical Engineering
- JTC 1331H Biomaterials Science
- MBP 1007H Fundamentals in Molecular and Cell Biology I
- MBP 1008H Fundamentals in Molecular and Cell Biology II

**Clinical Engineering**

**Master of Health Science**

**Minimum Admission Requirements**
- selected students who hold a bachelor of applied science degree in engineering
MBP 1022H  Advanced Cell Biology for Physical Scientists
PSL 1052H  Fundamentals of Ion Channel Function
ZOO 1002H  Advanced Research and Reading Course
HAD 5010H  Canada’s Health System and Health Policy: Part I

Graduate Faculty

Full Members
Adamson, Susan - BSc, MSc, MD, PhD
Allen, Christine - BSc, PhD, PhD
Amon, Cristina - BASc, MSc, ScD
Aubin, Jane - BSc, PhD
Audet, Julie - MASc, PhD
Bardakjian, Berj - BSc, BEd, MASc, PhD
Black, Sandra - BSc, MD
Bogoch, Earl - BA, MSc, MD
Boynton, Erin - MD
Brock, Kristy - PhD
Caldarone, Christopher - BSc, MD
Chan, Warren - BSc, PhD
Chau, Tom - PhD
Cheng, Yu-Ling - SB, PhD
Cheyne, Douglas - BSc, MA, PhD
Courtman, David - BSc, MSc, PhD
Cvitkovitch, Dennis - BSc, MSc, PhD
Davies, John - BSc, BDS, PhD, DSc
Drake, James - BSE, MSc, MChB
Easty, Anthony - PhD
Eizenman, Moshe - BASc, MASc, PhD
Ethier, C Ross - BSc, MMath, SM, PhD
Fernie, Geoffrey - BSc, PhD
Frecker, Richard - BSc, MD, PhD
Graham, Simon - BSc, PhD
Grynpas, Marc - MSc, PhD
Guenther, Axel - DIPING, DE
Harrison, Robert - PhD, DSc
Hinz, J. Boris - PhD
Hynynen, Kullervo - BSc, MS, PhD
Jaffray, David - BSc, PhD
Johnston, K. Wayne - MD
Joy, Michael - BSc, MASc, PhD
Kandel, Rita - MD
Kelley, Shana - BA, PhD
Keshavjee, Shafique - BA, MSc, LMCC, MD
Levi, Ofer - BSc, MSc, PhD
Mahadevan, Radhakrishnan - BTech, PhD
Mihailidis, Alex - BASc, MASc, PhD
Milgram, Paul - BASc, MSc, PhD
Morshead, Cindi Marie - BS, PhD
Nagub, Hani - BSc, ME, PhD, Reg Professional Engineer
Norwich, Kenneth - MSc, PhD
Popovic, Milos - DIPING, PhD
Pritzker, Kenneth - BSc, MD
Radisic, Milica - BEng, PhD
Reid, Denise - BSc(OT), Med, PhD
Rocheleau, Jonathan - BSc, PhD
Santerre, Paul - BSc, MSc, PhD
Setton, Michael - BASc, ScD
Shoichet, Molly - PhD
Silverman, Melvin - BSc, MDCH

Simmons, Craig - BSc, MSc, PhD
Skinner, Frances - PhD
Sled, John - BASc, MS, PhD
Slutsky, Arthur - BASc, MSc, MD
Stanford, William - BA, PhD
Strauss, Bradley - MD
Thompson, Michael - BSc, PhD, DSc, Fell Ryl Inst
Chemistry
Thorpe, Steven - BASc, MASc, PhD
Truong, Kien (Kevin) - BASc, PhD
van Lieshout, Pascal - MA, MA, PhD
Wang, Paul - BSc, PhD
Wong, Willy - BSc, MSc, PhD
Wright, Graham - BSc, MSc, PhD
Yee, Albert - MSc, LMCC, MD
Yip, Christopher - BSc, PhD (Associate Director; Graduate Coordinator)
You, Lidan - BS, MS, PhD
Zandstra, Peter - BEng, PhD
Zheng, Gang - MSc, PhD

Members Emeriti
Cobbold, Richard - PhD
Dolan, Alf - BSc, MSc
Kunov, Hans - MSc, PhD
Pilliar, Robert - BASc, PhD
Watson, Philip - DDS, BDSC, MSCD

Associate Members
Andrysek, Jan - BSc, MASc, PhD
Borschel, Gregory - BSc, DrMed
Gemmell, Cynthia - PhD
Grantcharov, Teodor - DrMed, PhD
Howarth, David - LMCC, MD
Kim, Peter - MDCM, PhD
McConville, Kristiina - PhD
Paul, Narinder - BM
Sodhi, Rana - BSc, MSc, PhD
Steinman, David - BASc, MASc, PhD
Trbovich, Patricia L - PhD
Woodhouse, Kimberly Ann - BEng, PhD
Degree and Diploma Programs by Graduate Unit

Cell and Systems Biology

Faculty Affiliation
Arts and Science

Degree Programs Offered
Cell and Systems Biology – MSc, PhD

Programs Closed to Admission
Plant and Microbial Biology – MSc, PhD
Zoology – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Developmental Biology
   • Cell and Systems Biology, MSc, PhD
2. Genome Biology and Bioinformatics
   • Cell and Systems Biology, PhD
3. Neuroscience
   • Cell and Systems Biology, MSc, PhD

Overview
Cell and Systems Biology (CSB) offers a master’s program leading to the degree of Master of Science and a doctoral program leading to the degree of Doctor of Philosophy in the fields of Cell, Molecular, and Systems Biology. Students undertaking graduate programs in CSB pursue research related to fundamental mechanisms in the growth, development, and behaviour of organisms ranging from unicellular microbes to more complex organisms in the plant and animal kingdoms. Research projects extend from the molecular level to that of whole organisms interacting with each other and their environment.

Students enjoy state-of-the-art facilities and make use of cutting-edge approaches including functional genomics, genetics, metabolomics, proteomics, bioinformatics, computational biology, cell biology, developmental biology, molecular biology, and physiology.

Contact and Address
Web: www.csb.utoronto.ca
Email: sue.taylor@utoronto.ca
Telephone: (416) 978-3477
Fax: (416) 946-5765

Degree Programs

Cell and Systems Biology

Master of Science
Minimum Admission Requirements
• General admission requirements under the School of Graduate Studies General Regulations.
• An appropriate bachelor’s degree with high academic standing from a recognized university, with a B+ (or equivalent) average in the final year of the bachelor's program, and a mid-B overall average in the previous year of study.

Program Requirements
• Complete CSB 1000H (0.5 FCE).
• Complete the CSB 1010Y MSc seminar series (credit only, 24 seminars per year, plus attendance at two CSB PhD proposal/transfer days per year).
• Complete a thesis based on a research project.
• Give a public presentation of thesis research and defend the thesis at an oral examination.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy
Minimum Admission Requirements
PhD degree students are generally accepted by one of three routes:
• following completion of an MSc degree or its equivalent from a recognized university, with a minimum A- average in all work completed in the master's program
• by transferring from the University of Toronto MSc program: Students may reclassify from the MSc program after 12 months of study
• by direct entry, that is, after completing an honours bachelor’s degree with an exceptional record and a minimum A- average or equivalent.
Program Requirements

- Complete CSB 1000H (0.5 FCE) and one additional CSB 100XH (0.5 FCE) or equivalent.
- Complete the CSB 1011Y PhD seminar series (credit only, 24 seminars per year, plus attendance at two CSB PhD proposal/transfer days per year).
- Complete a thesis on a research project, give a public presentation of the thesis research, and defend the thesis at the doctoral final oral examination.
- All PhD students (including MSc students wishing to reclassify as PhD students) must successfully complete a PhD proposal/transfer examination. The PhD proposal/transfer examination involves three components:
  1. preparation of a written research proposal;
  2. presentation to the department and questioning by the public at the departmental PhD proposal/transfer day; and
  3. in-camera questioning by a PhD proposal examination committee within two weeks of the public presentation.

There are two dates available for the proposal/transfer process per year, one in October and the other in February. Students must successfully complete their proposal/transfer examination at either one of these dates, at 13 months or 17 months after the start date of enrolment in their graduate program. Students who transfer from the CSB MSc program to the PhD program may apply course credits earned as CSB MSc students toward their PhD course requirements.

Normal Program Length: 4 years full-time; 5 years direct-entry; 5 years transfer-from-master's

Time Limit: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master's

Course List

Consult graduate unit regarding course availability.

CSB 1000H+ Topics in Cell and Systems Biology 1

(Consists of two modules. Detailed information on modules can be found on the Department of Cell and Systems Biology website.)

CSB 1001H+ Topics in Cell and Systems Biology 2

CSB 1002H+ Topics in Cell and Systems Biology 3

CSB 1010Y+ MSc Seminar Series

CSB 1011Y+ PhD Seminar Series

JBZ 1472H Computational Genomics and Bioinformatics

0 Course that may continue over a program. The course is graded when completed.
+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.

Graduate Faculty

Full Members

Aarts, Michelle Marie - BS, MS, PhD
AbouHaidar, Mounir - DipEdSup, BSc, PhD, Cert D’aptitude Pedagog
Anderson, James - BA, PhD
Barrett, F Michael - BSc, MSc, PhD
Berleth, Thomas - BSc, MSc, PhD
Boonstra, Rudy - BSc, PhD
Brown, Ian - BSc, PhD
Bruce, Ashley - BA, PhD
Buck, Leslie - BSc, PhD (Associate Chair, Graduate Studies)
Campbell, Malcolm - DPhil
Chang, Belinda - AB, PhD
Christendat, Dinesh - PhD
Coleman, John - BSc, PhD
Desveaux, Darrell - BSc, MSc, PhD
Edwards, Elizabeth - BEng, PhD
Ensinger, Ingo - PhD
Espie, George - PhD
Gazzarrini, Sonia - BA, PhD
Gerlai, Robert - MSc, PhD
Godt, Dorothea - MS, DrRerNat
Goring, Daphne - PhD
Guttman, David - BS, PhD
Harris, Tony - BSc, PhD
Harrison, Rene - BS, MS, PhD
Hasenkampf, Clare - BSc, MS, PhD
Horgan, Paul - BA, MS, PhD
Kanelis, Voula - PhD
Kohn, Linda - BS, PhD
Kronzucker, Herbert - PhD
Lange, Angela - BSc, PhD
Larsen, Ellen - BSc, MSc, PhD
Levine, Joel - BA, PhD
Lovejoy, David - PhD
Lovejoy, Nathan Richard - BSc, MS, PhD
Mason, Andrew - MS, PhD
Master, Emma - BSc, PhD
McCourt, Peter - PhD
McGowan, Patrick - PhD
McMillen, David - BSc, MS, PhD
Mitchell, Jennifer - DSc
Moses, Alan - BA, PhD
Nambara, Eiji - MS, PhD
Nash, Joanne - BS, MSc, PhD
O’Day, Danton - BSc, MSc, PhD
Orchard, Ian - BSc, PhD, DSc
Peever, John - MSc, PhD
Provart, Nicholas - PhD
Reid, Stephen - BS, PhD
Riggs, Charles - BS, PhD
Ringuette, Maurice - BSc, PhD
Romans, Patricia - BSc, MSc, PhD
Ryu, William - AB, PhD
Shapiro, Colin - BSc, PhD
Degree and Diploma Programs by Graduate Unit

Smith, J.J. Berry - BA, MA, PhD
Sokolowski, Marla - BSc, PhD
Stephenson, Richard - BSc, PhD
Stewart, Bryan - BSc, MS, DPhil
Takehara, Kaori - BSc, MSc, PhD
Tepass, Ulrich - MSc, PhD (Chair and Graduate Chair)
Terebiznik, Mauricio - BSc, PhD
Tobe, Stephen - BSc, MSc, PhD, Fell Royal Society Canada
Tropepe, Vince - BSc, PhD
Vanlerberghe, Greg - BSc, MSc, PhD
Varmuza, Susannah - BSc, MSc, PhD
Welch Jr., Kenneth Collins - BS, MA, PhD
Westwood, J. Timothy - PhD
Winklbauer, Rudolf - MSc, PhD
Woodin, Melanie - MSc, PhD
Yang, Guojun - PhD
Yeomans, John - BA, PhD
Yoshioka, Keiko - PhD
Zhao, Rongmin - BSc, PhD

Associate Members

Revers, Leigh - PhD
Chemical Engineering and Applied Chemistry

**Degree and Diploma Programs by Graduate Unit**

### Faculty Affiliation

Applied Science and Engineering

### Degree Programs Offered

Chemical Engineering and Applied Chemistry – MASc, MEng, PhD

### Collaborative Programs

The following collaborative programs are available to students in participating degree programs as listed below:

1. **Biomedical Engineering**
   - Chemical Engineering and Applied Chemistry, MASc, PhD

2. **Environmental Engineering**
   - Chemical Engineering and Applied Chemistry, MASc, MEng, PhD

3. **Environmental Studies**
   - Chemical Engineering and Applied Chemistry, MASc, MEng, PhD

4. **Genome Biology and Bioinformatics**
   - Chemical Engineering and Applied Chemistry, PhD

### Overview

The Department of Chemical Engineering and Applied Chemistry offers graduate research in pure science, engineering fundamentals, and engineering applications. Graduate programs lead to the degrees of Master of Applied Science (MASc), Master of Engineering (MEng), and Doctor of Philosophy (PhD). The MEng program differs from the MASc and PhD programs in that it is oriented to learning through prescribed courses rather than through research.

The department attracts a dynamic professorial staff with outstanding international reputations. Many graduate students work closely with industrial partners during their studies. Research is funded by the government and industry, often by means of a consortium of companies. The experience of dealing with real world problems prepares graduates for successful professional careers.

Research and teaching are the foundations of the department. Research is clustered into eight major categories:

1. Biomolecular and Biomedical Engineering
2. Bioprocess Engineering
3. Chemical and Materials Process Engineering
4. Engineering Informatics
5. Environmental Science and Engineering
6. Pulp and Paper
7. Surface and Interface Engineering
8. Sustainable Energy

A more complete and up-to-date description of graduate research programs and enrolment procedures appears on www.chem-eng.utoronto.ca.

### Contact and Address

**Web:** www.chem-eng.utoronto.ca

**Email:**
- Admissions: admisgrad.chemeng@utoronto.ca
- General: gradassist.chemeng@utoronto.ca
- Telephone: (416) 976-3987
- Fax: (416) 978-8605

Department of Chemical Engineering and Applied Chemistry
University of Toronto
Room 212, Wallberg Building
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Canada

### Degree Programs

**Chemical Engineering and Applied Chemistry**

#### Master of Applied Science

**Minimum Admission Requirements**

- Students are admitted under the SGS General Regulations.

**Program Requirements**

- Thesis on a research topic.
- At least three graduate half courses (1.5 full-course equivalents [FCEs]), one of which normally must be selected from Category A: Fundamental (see courses below), and at least one of which must be selected in an area outside the student’s field of research specialization. Furthermore, only one 500-level course may be taken for credit towards the degree program. Students are also required to complete CHE 2222H and JDE 1000H as well as attend four sessions of the CHE 300xH seminar series. Students are required to take a graduate student seminar, presenting two times during their program, once in the first year and once in the second year of study.
- Each student should discuss possible research projects with several members of the department before selecting a research area and a supervisor.
- The program requires a minimum full-time residence of two sessions (eight months).

**Normal Program Length:** 6 sessions full-time

**Time Limit:** 3 years full-time
Master of Engineering
Minimum Admission Requirements
• Students are admitted under the SGS General Regulations.

Program Requirements
• The program normally requires completion of a total of 5.0 full-course equivalents (FCEs) or 3.5 FCEs plus a 1.5-FCE project supervised by a faculty member. The project must be defended at an oral examination.
• The MEng program can be completed either through full-time or part-time studies. The full-time program is designed to be completed within 12 months, including the summer session. The part-time program is intended primarily for engineers in full-time professional practice.

Normal Program Length: 3 sessions full-time; 9–12 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy
Minimum Admission Requirements
• Applicants may enter the program via one of three routes:
  1. Following completion of an MASc program with a minimum B+ average and exceptional all-round scientific and intellectual ability as evidenced from theoretical or experimental research, academic standing, initiative, and publication record
  2. Transferring from the University of Toronto MASc program after completing one year; such students must successfully complete a “bypass” examination
  3. Direct entry after completing a bachelor’s degree may be considered in exceptional cases
• International applicants a master’s degree in their country of residence may be asked to register in the MASc program and follow entry route 2.

Program Requirements
• Thesis on a research topic.
• Students with completed MASc degree: at least 2.0 full-course equivalents (FCEs).
• Transfer students: 3.0 FCEs for students without a master’s degree 2.0 FCEs for students with a completed master’s degree. Transfer students do not have to take a separate PhD qualifying examination.
• Direct-entry students: at least 3.0 FCEs.
• Courses must be selected from the calendar and approved by the student’s supervisor and the Graduate Coordinator. At least one of these courses must be taken in a minor area of study. It is recommended that one of these courses should be selected from Category A - Fundamental courses.

Course List
An updated course list and schedule is available on the departmental website at the beginning of each session listing the time and room location for each course. Not all courses are given every year.

All students wishing to undertake research and teaching in the Department of Chemical Engineering and Applied Chemistry must successfully complete a two-day intensive occupational health and safety training workshop, CHE 2222H Safety Workshop, which normally takes place during the week immediately preceding the commencement of graduate courses in the fall. In each subsequent year of registration, students must take the WHMIS refresher workshop. Students registered in a graduate degree program involving research are required to participate in the non-credit seminar course JDE 1000H Ethics in Research during their first or second session of registration.

Category A: Fundamental Courses
CHE 1107H Applied Mathematics
CHE 1140H Topics in Process Identification and Control
CHE 1141H Advanced Chemical Reaction Engineering
CHE 1142H Applied Chemical Thermodynamics
CHE 1143H Transport Phenomena
CHE 1144H Separation Processes
CHE 1147H Data Mining in Engineering
JTC 1135H Applied Surface Chemistry
CHE 1180H Advanced Topics in Chemical Engineering
CHE 1310H Chemical Properties of Polymers
JCI 1503H Advanced Topics in Computing and Information Systems

International applicants a master’s degree in their country of residence may be asked to register in the MASc program and follow entry route 2.
Degree and Diploma Programs by Graduate Unit

**Category B: Specialized Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 1118H</td>
<td>Industrial Catalysis</td>
</tr>
<tr>
<td>CHE 1134H</td>
<td>Advances in Bioengineering</td>
</tr>
<tr>
<td>CHE 1213H</td>
<td>Corrosion</td>
</tr>
<tr>
<td>CHE 1314H</td>
<td>The Structure and Properties of Fibrous Materials</td>
</tr>
<tr>
<td>JTC 1331H</td>
<td>Biomaterials Science</td>
</tr>
<tr>
<td>JCB 1349H</td>
<td>Molecular Assemblies: Structure/Function/Properties</td>
</tr>
<tr>
<td>CHE 1400H</td>
<td>Environmental Nuclear Science</td>
</tr>
<tr>
<td>CHE 1533H</td>
<td>Nuclear Chemical Engineering</td>
</tr>
<tr>
<td>CHE 1541H</td>
<td>Two-Phase Flow and Heat Transfer</td>
</tr>
<tr>
<td>JCC 1313H</td>
<td>Environmental Microbiology</td>
</tr>
<tr>
<td>JCI 1321H</td>
<td>Wood Engineering</td>
</tr>
<tr>
<td>JNC 2503H</td>
<td>Environmental Pathways Engineering Management Courses</td>
</tr>
</tbody>
</table>

**Management Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>APS 501H</td>
<td>Leadership and Leading in Groups and Organizations</td>
</tr>
<tr>
<td>APS 1001H</td>
<td>Project Management</td>
</tr>
<tr>
<td>APS 1002H</td>
<td>Financial Engineering</td>
</tr>
<tr>
<td>APS 1003H</td>
<td>Professional Education and Instruction</td>
</tr>
<tr>
<td>APS 1004H</td>
<td>Human Resource Management: An Engineering Perspective</td>
</tr>
<tr>
<td>APS 1005H</td>
<td>Operations Research for Engineering Management</td>
</tr>
<tr>
<td>APS 1088H</td>
<td>Entrepreneurship and Business for Engineers</td>
</tr>
<tr>
<td>APS 1201H</td>
<td>Topics in Engineering and Public Policy 500-level (undergraduate/graduate) Courses</td>
</tr>
</tbody>
</table>

**Seminar Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 1211H</td>
<td>Pulp and Paper Seminars (Credit/No Credit)</td>
</tr>
<tr>
<td>CHE 2011H</td>
<td>Graduate Student Seminars (Credit/No Credit)</td>
</tr>
<tr>
<td>CHE 300xH</td>
<td>Seminars in Chemical Engineering and Applied Chemistry (Credit/No Credit)</td>
</tr>
</tbody>
</table>

In addition to the above courses, students may elect to take courses in other engineering or science departments where such courses are deemed relevant to the area of study. These courses require prior approval from the Graduate Coordinator.

**Graduate Faculty**

**Full Members**

Acosta, Edgar Joel - BS, MS, PhD

**Members Emeriti**

Balke, Stephen - BEng, PhD
Boocock, David - BSc, PhD
Chaffey, Charles - BSc, PhD
Charles, Michael - BSc, MSc, PhD, Fell Chem Inst of Canada
Foulkes, Frank - BASc, MASc, PhD
Jervis, Robert - BA, MA, PhD, Reg Professional Engineer, Fell Chem Inst of Canada
Luus, Rein - BASc, MASc, AM, PhD
Mackay, Donald - BSc, PhD
Paradi, Joseph - BSc, PhD
Phillips, Mary - BASc, BASc, MA, PhD
Smith, James - BASc, MASc, PhD
Trass, Olev - BSE, ScD

**Associate Members**

Bidleman, Terry - BSc, PhD
Colclough, David - BASc, MASc, PhD
Goodfellow, Howard - BASc, MASc, PhD
Grace, Thomas Michael - BS, PhD
Liss, Steven - BSc, MSc, PhD
Sayad, Saed - MD, PhD
Treiber, Steve - MASc, PhD
Tremaine, Peter - BSc, PhD
Wolfardt, Gideon - BSc, MSc, PhD

Allen, D Grant - BASc, MASc, PhD *(Chair and Graduate Chair)*
Audet, Julie - MASc, PhD
Bender, Timothy - PhD
Cheng, Yu-Ling - SB, PhD
Cluett, William - BSc, PhD
Cooper, Paul - BEd, BSc, MSc, PhD
Cormack, Donald - BASc, MASc, PhD
Coyle, Thomas - BS, BA, ScD
Diamond, Miriam - MSc, MSc, PhD
Diosady, Levante - BASc, MASc, PhD
Edwards, Elizabeth - BEng, PhD
Evans, Gregory - PhD
Farnood, Ramin - BASc, MASc, PhD
Fulthorpe, Roberta - BSc, MSc, PhD
Jia, Charles - BEng, MEng, PhD
Kawajl, Masahiro - BASc, MSc, PhD
Kirk, Donald - BASc, MASc, PhD
Kortschot, Mark - BASc, MASc, PhD
Kumacheva, Eugenia - MSc, PhD
Lawryshyn, Yuri - DIPING, BASc, MASc, PhD
McGuigan, Alison - MEng, PhD
Mims, Charles - PhD
Newman, Roger Charles - BA, PhD, DSc
Papangelakis, Vladimir - MEng, PhD *(Associate Chair)*
Radisic, Milica - BEng, PhD
Reeve, Douglas - BSc, MASc, PhD
Saville, Bradley - BSc, PhD
Selton, Michael - BASc, ScD
Shoichet, Molly - PhD
Stanford, William - BA, PhD
Thorpe, Steven - BASc, MASc, PhD
Tran, Honghi - PhD
Yan, Ning - BSc, PhD, Reg Professional Engineer
Yip, Christopher - BSc, PhD
Degree and Diploma Programs by Graduate Unit

Chemistry

Faculty Affiliation
Arts and Science

Degree Programs Offered
Chemistry – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Biomolecular Structure
   - Chemistry, PhD
2. Environmental Studies
   - Chemistry, MSc, PhD
3. Biomedical Engineering
   - Chemistry, MSc, PhD
4. Optics
   - Chemistry, MSc

Overview
Modern facilities are available for research leading to the Master of Science and Doctor of Philosophy degrees. The areas of interest cover a wide variety of topics in analytical, biological, environmental, inorganic, organic, materials, polymers, physical, and theoretical chemistry and their related interdisciplinary areas.

Contact and Address
Web: www.chem.utoronto.ca
Email: grad@chem.utoronto.ca
Phone: (416) 978-3605
Fax: (416) 978-1631
Department of Chemistry
University of Toronto
Room 151, Lash Miller Building
80 St. George Street
Toronto, Ontario M5S 3H6
Canada

Degree Programs
Chemistry

Master of Science
Minimum Admission Requirements
- Appropriate bachelor’s degree from a recognized university with an average equivalent to at least a University of Toronto B+.

Program Requirements
- Submission of a thesis, the successful completion of 1.0 graduate full-course equivalent (FCE) including at least 0.5 graduate half-course equivalent in chemistry, and participation in a seminar program.

Normal Program Length: 4 sessions (2 years) full-time
Time Limit: 3 years full-time

Doctor of Philosophy
Minimum Admission Requirements
- Appropriate master’s degree from a recognized university with a minimum average equivalent to at least a University of Toronto B+.
- An exceptional student with an appropriate BSc degree may be admitted directly to the PhD program. Alternatively, transfer to the PhD program may be considered after a one-year MSc residency period.

Program Requirements
- The main requirement for the PhD program is the execution of an original investigation that is presented in a thesis. Each program requires successful completion of an oral examination in the area of the major field, as well as participation in a seminar program.
- Students select one of the following as a major field:
  - Analytical Chemistry
  - Environmental Chemistry
  - Inorganic Chemistry
  - Organic and Biological Chemistry
  - Physical Chemistry and Chemical Physics
  - Polymers and Materials Chemistry
  - Interdisciplinary
- Combinations within these fields, or with other disciplines, are permitted under the category of an interdisciplinary program. Each program requires a minimum of 2.0 to 3.0 full-course equivalents (FCEs) from approved graduate courses offered in the School of Graduate Studies, depending on the student’s academic background. The number of courses required will be determined in consultation with the supervisor and Graduate Studies Committee. Up to 1.0 FCE taken for credit in the master’s program may be used to partially fulfill the PhD requirements.
- Specific requirements for each field follow:

Analytical Chemistry
- 3.0 FCEs to include 0.5 FCEs in analytical chemistry in each of the areas of spectroscopy, separation science/electrochemistry, and advanced instrumentation/data analysis, plus one other 0.5 FCE
to support the research program. Students must also complete CHM 1190Y *Analytical Chemistry Seminar.*

**Environmental Chemistry**
- At least 2.0 FCEs to include CHM 1401H, at least one other course in environmental chemistry (CHM 1410H, CHM 1415H, CHM 1425H, CHM 1550H), and at least one CHM course to be chosen in consultation with the supervisor/supervisory committee and confirmed by the field representative. The fourth course may be an approved course offered in a cognate department. Presentation of two seminars (normally in second and fourth years of study) and participation in the Environmental Chemistry seminar and colloquia program. A written research proposal, defended orally, on a topic other than the primary research topic delivered prior to the end of the second year of graduate study. Successful completion of an oral examination in the area of Environmental Chemistry, normally completed following coursework and before the end of the second year of graduate study.

**Inorganic Chemistry**
- 2.0 FCEs including one core half course (either CHM 1261H or CHM 1270H that are offered in alternating years) plus the presentation of one seminar each year starting in their second year (to a total of three) in the Inorganic Chemistry seminar program including one on an original research proposal.

**Organic and Biological Chemistry**
- At least 2.0 FCEs to include at least two Organic Chemistry graduate half courses selected from CHM 1040H to CHM 1270H (inclusive). Students may take graduate courses from other chemistry fields or cognate departments. All students are expected to be at the level of the fourth-year undergraduate courses offered in physical organic, synthetic organic, and biological chemistry, and if necessary the cross-listed Arts and Science courses may be taken. Courses will be selected in consultation with the supervisor and confirmed by the Graduate Studies Committee field representative. Students must also pass seven cumulative exams and present two seminars as a component of their participation in the Organic Chemistry seminar program (normally in the second and fourth years of study). Upon completion of coursework and cumulative exams, students will take an oral exam in the area of Organic and Biological Chemistry.

**Physical Chemistry and Chemical Physics**

**Experimental Physical Chemistry**
- 2.0 FCEs consisting of a combination of two core half courses and two other half courses. The principle is that breadth of background preparation should be the major objective in course selection. Attendance and participation in the Physical Chemistry seminar program are mandatory.

**Theoretical Physical Chemistry**
- 3.0 FCEs, including two core half courses. Specifics are to be determined by the research director and the student. Attendance and participation in the Physical Chemistry seminar program are mandatory.

**Polymers and Materials Chemistry**
- 2.0 FCEs, to include at least two of the three core courses (CHM 1206H, CHM 1301H, CHM 1302H). A list of other courses considered appropriate to the Polymers and Materials Chemistry research area is available from the department. Presentation of at least two seminars (the first will be an independent research proposal, the second a presentation on research) and participation in the Polymers and Materials Chemistry seminar program. Successful performance in an oral examination in the area of Polymers and Materials Chemistry following the completion of coursework.

**Interdisciplinary PhD Program**
- 2.0 FCEs, including one core half course from the above fields, and participation in one of the field seminar programs. Acceptance into this program requires a research topic of a truly interdisciplinary nature; a written request must be submitted to the Graduate Coordinator.

Depending upon the area of research, students may also be required to show an adequate ability to translate scientific text in one or two of the following languages: French, German, and Russian.

A student whose major subject is in another department may consult the Department of Chemistry regarding the selection of a minor in Chemistry.

**Normal Program Length:** 4–5 years full-time; 5 years direct-entry; 5 years transfer-from-master’s

**Time Limit:** 6 years full-time; 7 years direct-entry; 7 years transfer-from-master’s

**Course List**
- Not all courses are offered every year. Please consult the department each session as to course availability.

**Analytical Chemistry**
- CHM 1102H *Bionsensors and Chemical Sensors*
- CHM 1103H *Advanced Topics in Analytical Chemistry*
- CHM 1104H *Separation Science*
- CHM 1105H *Separations, Chromatography, and Microfluidics*
- CHM 1106H *Lab Instrumentation*
- CHM 1108H *Mass Spectrometry Fundamentals and Instrumentation*
Degree and Diploma Programs by Graduate Unit

**Chemistry**

- **CHM 1150H** Advances in Electroanalytical Chemistry and Electrochemical Sensors
- **CHM 1152H** Chemical Sensors
- **CHM 1157H** Applications of Chemometrics
- **CHM 1190Y** Analytical Chemistry Seminar (Credit/No Credit)
- **CHM 2014H** Research in Analytical Chemistry
- **BME 1452H** Signal Processing for Bioengineering
- **CHE 1144H** Separation Processes
- **CHEM 1190Y** Analytical Chemistry Seminar (Credit/No Credit)
- **CHM 2044H** Research in Organic Chemistry

**Environmental Chemistry**

- **CHM 1401H** Transport and Fate of Chemical Species in the Environment (core course)
- **CHM 1404H** Molecular Analysis of Natural Systems
- **CHM 1410H** Analytical Environmental Chemistry
- **CHM 1415H** Atmospheric Chemistry
- **CHM 1420H** Environmental Chemistry of Soil
- **CHM 1425H** Modelling the Fate of Organic Chemicals in the Environment
- **CHM 1430H** Advanced Topics in Atmospheric Chemistry
- **CHM 1550H** Topics in Environmental Chemistry
- **CHM 1590Y** Environmental Chemistry Seminar (Credit/No Credit)
- **EES 1105H** Soil Contamination Chemistry

**Inorganic Chemistry**

- **CHM 1202H** Selected Current Directions in Inorganic Chemistry
- **CHM 1204H** Organometallic Chemistry
- **CHM 1205H** Inorganic Reaction Mechanisms
- **CHM 1206H** Solid State Chemistry: Structure-Property Relations
- **CHM 1255H** Supramolecular Chemistry
- **CHM 1258H** Reactions of Coordinated Ligands
- **CHM 1261H** Topics in Inorganic Chemistry I (core course)
- **CHM 1263H** Bio-inorganic Chemistry
- **CHM 1268H** X-Ray Crystallography
- **CHM 1269H** Nanochemistry: A Chemistry Approach to Nanomaterials
- **CHM 1270H** Frontiers in Inorganic Chemistry (core course)
- **CHM 1290Y** Inorganic Chemistry Seminar (Credit/No Credit)
- **CHM 2034H** Research in Inorganic Chemistry

**Organic and Biological Chemistry**

- **CHM 1003H** Physical Organic Chemistry II
- **CHM 1004H** Synthetic Organic Chemistry
- **CHM 1005H** Applications of Spectroscopy in Organic Structure Determination
- **CHM 1006H** Bioorganic Chemistry
- **CHM 1008H** Biological Chemistry
- **CHM 1040H** Modern Organic Synthesis
- **CHM 1045H** Modern Physical Organic Chemistry
- **CHM 1051H** Current Topics in Chemical Biology
- **CHM 1054H** Topics in Bio-organic Chemistry
- **CHM 1055Y** Organic Chemistry Proposal Writing
- **CHM 1060H** Advanced Topics in Synthetic Organic Chemistry
- **CHM 1068H** Topics in Biological and Medicinal Chemistry
- **CHM 1090Y** Organic Chemistry Seminar (Credit/No Credit)
- **CHM 2044H** Research in Organic Chemistry

**Physical and Theoretical Chemistry**

- **CHM 1441H** Mathematical Methods
- **CHM 1442H** Current Directions in Experimental Physical Chemistry
- **CHM 1443H** Intermediate Quantum Mechanics
- **CHM 1444H** Statistical Mechanics of Condensed Phases
- **CHM 1445H** Coherent Control of Molecular Processes
- **CHM 1446H** Quantum Computation and Information Theory
- **CHM 1447H** Biophysical Chemistry
- **CHM 1448H** Modelling of Biochemical Systems
- **CHM 1450H** Nanoscale Characterization with Scan Probe Microscopy
- **CHM 1455H** NMR Spectroscopy I: Introduction to Theory and Application
- **CHM 1456H** NMR Spectroscopy II: Advanced Theory and Application
- **CHM 1464H** Topics in Statistical Mechanics
- **CHM 1478H** Quantum Mechanics for Physical Chemists (core course)
- **CHM 1479H** Thermodynamics (core course)
- **CHM 1480H** Basic Statistical Mechanics (core course)
- **CHM 1481H** Reaction Kinetics and Dynamics (core course)
- **CHM 1485H** Molecular Dynamics and Chemical Dynamics in Liquids
- **CHM 1486H** Modern Molecular Spectroscopy
- **IOS 1500H** Selected Topics in Optics Research
- **CHM 1490Y** Physical Chemistry Seminar (Credit/No Credit)
- **CHM 2024H** Research in Physical Chemistry

**Polymers and Materials Chemistry**

- **CHM 1300H** Polymer Chemistry
- **CHM 1301H** Organic and Inorganic Polymer Synthesis (core course)
- **CHM 1302H** Physical Chemistry of Polymers (core course)
- **CHM 1303H** Solids as Advanced Polymer Materials
- **CHM 1304H** Organic Materials Chemistry
- **CHM 1390Y** Polymer and Materials Chemistry Seminar (Credit/No Credit)
- **CHM 2304H** Research in Polymer and Materials Chemistry

All graduate courses for degree credit must be approved by the department. Subject to departmental permission, degree students in Chemistry may take a
Degree and Diploma Programs by Graduate Unit

limited number of graduate courses based on fourth-year Faculty of Arts and Science courses in Chemistry or a cognate discipline. Approvals of such fourth-year courses will be considered on an individual basis. Third-year Arts and Science courses, or their essential equivalents, will not receive degree credit.

Graduate Faculty

Full Members
Abbatt, Jonathan - BSc, PhD
Allen, Christine - BSc, PhD, PhD
Batey, Robert Alexander - BA, PhD
Bender, Timothy - PhD
Brumer, Paul - BSc, PhD
Chan, Warren - BSc, PhD
Chin, Jik - MS, PhD
Dhirani, Al-Amin - MSc, PhD
Donaldson, D. James - PhD (Associate Chair, Graduate Studies)
Dong, Vy - BCH, MC, DChem
Fekl, Ulrich - MSc, PhD
Fraser, Simon John - BA, PhD
Georges, Michael - BS, PhD
Goh, M Cynthia - PhD
Gunning, Patrick - BS, PhD
Jockusch, Rebecca - BA, PhD
Kanelis, Voula - PhD
Kapral, Raymond - BSc, PhD
Kaye, Lewis - PhD
Kelley, Shana - BA, PhD
Kerman, Kagan - BScPhm, MSc, ScD
Kluger, Ronald - AB, AM, PhD
Krull, Ulrich - BSc, MSc, PhD
Kumacheva, Eugenia - MSc, PhD
Lautens, Mark - BSc, PhD
Mabury, Scott - BS, PhD
Macdonald, Peter - BS, MS, PhD
Manners, Ian - BSc, PhD
McMillen, David - BSc, MS, PhD
Miller, R J Dwayne - BSc, PhD
Morris, Robert - BSc, PhD, Fell North Atlantic Treaty Or
(Interim Chair and Graduate Chair)
Murphy, Jennifer - BCH, DChem
Nitz, Mark - BSc, PhD
Ozin, Geoffrey - BSc, PhD
Polanyi, John - MSc, PhD, DSc, Fell Royal Society
Canada, Fell Royal Society London
Prosse, Scott - BSc, MSc, DPhil
Schofield, Jeremy - PhD, PhD
Scholes, Greg - MSc, PhD
Seferos, Dwight - BCH, DChem
Segal, Dvira - BSc, DSc
Shin, Jum - AB, DPhil
Shoichet, Molly - PhD
Simpson, Andre - BSc, PhD
Simpson, Myrna - BS, DPhil
Song, Datong - BSc, PhD
Stephan, Douglas - BSc, PhD
Taylor, Mark - BSc, DSc
Thompson, Michael - BSc, PhD, DSc, Fell Ryl Inst
Chemistry

Members Emeriti
Bersohn, Malcolm - BSc, MS, PhD
Brook, Adrian - BA, PhD
Harrison, Alexander - MSc, PhD
Jones, J Bryan - BSc, PhD, DPhil
McLean, Stewart - BSc, PhD
Menzinger, Michael - MS, PhD
Poe, Anthony - DIC, BA, BSc, MA, MA, PhD
Tidwell, Thomas - BS, AM, PhD

Associate Members
Baranov, Vladimir - PhD
Bidlem, Terry - BSc, PhD
Muir, Derek - BSc, MSc, PhD
Reiner, Eric - BSc, MSc, PhD
Tanner, Scott - BSc, PhD

Walker, Gilbert - BCH, PhD
Wania, Frank - MPH, PhD
Wheeler, Aaron - BS, PhD
Whittington, Stuart - BA, MA, PhD
Winnik, Mitchell - BA, PhD
Yudin, Andrei - MSc, MSc, PhD
Zamble, Deborah - BSc, PhD
Zhang, Xiaoan - MS, PhD
Cinema Studies

Faculty Affiliation
Arts and Science

Degree Programs Offered
Cinema Studies – MA

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Diaspora and Transnational Studies
   • Cinema Studies, MA
2. Sexual Diversity Studies
   • Cinema Studies, MA
3. Women and Gender Studies
   • Cinema Studies, MA

Overview
The Cinema Studies Institute offers a program leading to the Master of Arts degree in Cinema Studies. Our faculty have expertise in several areas, including film history, film theory, and film and culture.

Contact and Address
Web: www.utoronto.ca/cinema
Email: gradcinema.studies@utoronto.ca
Telephone: (416) 978-5809
Fax: (416) 946-0168

Cinema Studies Institute
University of Toronto
Innis College
2 Sussex Avenue
Toronto, Ontario M5S 1J5
Canada

Degree Programs

Cinema Studies

Master of Arts

Minimum Admission Requirements
• Successful completion of an appropriate bachelor’s degree.
• Minimum B+ standing, demonstrated by an average grade in the final year, or over senior courses.
• Successful completion of a minimum of 6.0 full-course equivalents (FCEs) in cinema studies, or comparable program preparation.
• A letter of intent addressing the academic goals an applicant wishes to pursue in the program, three letters of recommendation, transcripts from all post-secondary institutions, and an academic writing sample of no more than 3,000 words.

Program Requirements
• The MA is a coursework-only program and therefore does not require a thesis.
• 4.0 FCEs over the course of an academic year, normally extending from September until August. Of the 4.0 FCEs:
  ○ 1.5 FCEs will be mandatory, core courses under the CIN rubric.
  ○ 1.0 FCE will be devoted to either the writing of a major research paper (CIN 1006Y) or pursuing an internship (CIN 1007Y). The internship option also entails writing a paper based on the learning or research experience gained from the internship.
  ○ 1.5 FCEs may be completed in the following way: 0.5 to 1.0 may be chosen from rotating special topics courses, also under the CIN rubric (but possibly cross-listed with another department, depending on the instructor’s departmental home); the remaining 0.5 to 1.0 may be chosen from film-based courses offered by other units (non-CIN designator) but approved as relevant to the Cinema Studies master’s program curriculum.
• All students complete CIN 1000H, CIN 1001H, and CIN 1002H.
  ○ Additional requirements for students choosing the major research paper option:
    • CIN 1006Y
    • 0.5 to 1.0 FCE derived from elective CIN courses
    • 0.5 to 1.0 FCE derived from approved graduate-level courses offered outside CIN.
  ○ Additional requirements for students choosing the internship option:
    • CIN 1007Y
    • 0.5 to 1.0 FCE derived from elective CIN courses
    • 0.5 to 1.0 FCE derived from approved graduate-level courses offered outside CIN.

Normal Program Length: 3 sessions full-time
Time Limit: 3 years full-time

Course List
Not all elective courses are offered every year. The department should be consulted each session as to elective and non-CIN course offerings.
Core Courses

CIN 1000H  Historiography of the Cinema
CIN 1001H  Theories of the Cinema
CIN 1002H  Cinema and Culture

Plus one of:

CIN 1006Y  Major Research Paper in Cinema Studies
CIN 1007Y  Internship in Cinema Studies

Elective Courses

(subject to change)

CIN 1003H  Women's Cinema and Women's Film Festivals
CIN 1004H  Models of Film Analysis
CIN 1005H  Special Studies in Cinema (sample topics: Textuality of the Cinematic Body, Colour and the Moving Image, Media/Participation)
CIN 1008H  Independent Research and Reading in Cinema Studies
CIN 1100H  One Film, Multiple Approaches
CIN 1425H  British Social Realism and Cinema
CIN 1515H  The Emergence of Mass Culture: Movies, Vaudeville and Public Amusements in Turn-of-the-Century America
CIN 1539H  Film Comedy and Popular Culture
CIN 1772H  The Politics of Non-Fiction Film
CIN 5968H  Actuality, Documentary, Reality
CIN 6153H  Race and Cinema
CIN 6156H  Dark Passages: Film and the Geometry of Racial Imagination
CIN 6197H  Eyes Looking, Lips Moving: Theories of Viewing Subject
CIN 6803H  Intertextuality in Feminist Cinema: The Counter-cinematic Impulse
CIN 6817H  Text, Context, Intertext: The Touch of Evil Project
JFF 1100H  Surrealism and French Cinema

Graduate Faculty

Full Members

Ambros, Veronika - MA, PhD
Columpar, Corinn - BA, PhD (Coordinator of Graduate Studies)
Fenner, Angelica - BA, MA, PhD
Jain, Kajri - PhD
Kaplan, Louis - AB, AM, DPhil
Keil, Charles - BA, MA, PhD (Director)
King, Robert - AB, MA, PhD
Price, Brian - PhD
Ricco, John - BA, MA, PhD
Sammond, Nicholas - BA, MA, PhD
Tcheuyap, Alexie - PhD

Members Emeriti

Armatage, Kay - BA, MA, PhD

Associate Members

Cahill, James - PhD
Maurice, Alice - BA, DPhil
Sutherland, Meghan - PhD
Testa, Bart - BA, MA
Degree and Diploma Programs by Graduate Unit

Civil Engineering

Faculty Affiliation
Applied Science and Engineering

Degree Programs Offered
Civil Engineering – MASc, MEng, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Environmental Engineering
   • Civil Engineering, MEng, MASc, PhD

Overview
The Department of Civil Engineering offers graduate programs leading to the Master of Applied Science, the Master of Engineering, and the Doctor of Philosophy. Qualified students are accepted for advanced studies in one of the following fields: Building Engineering, Environmental Engineering, Structural Engineering, Transportation Engineering, and Engineering Geoscience.

Students registered in a graduate degree program involving research are required to participate in the non-credit seminar course JDE 1000H Ethics in Research during their first or second session of registration.

Contact and Address
Admission
Web: www.civil.engineering.utoronto.ca
Email: alison.morley@utoronto.ca
Telephone: (416) 946-8028
Fax: (416) 978-6813

Program
Web: www.civil.engineering.utoronto.ca
Fax: (416) 978-6813

MEng Inquiries
Email: shayni@civ.utoronto.ca
Telephone: (416) 978-5905

MASc/PhD Inquiries
Email: colin@civ.utoronto.ca
Telephone: (416) 978-0945

Department of Civil Engineering
University of Toronto
Galbraith Building
35 St. George Street
Toronto, Ontario M5S 1A4
Canada

Degree Programs

Civil Engineering

Master of Applied Science

Minimum Admission Requirements
• Students are accepted under the General Regulations.
• Students who do not possess an undergraduate degree in civil engineering may be required to take more than the usual time and number of courses.

Program Requirements
• Each student, in consultation with a staff member at the beginning of the program, will establish the distribution of time between coursework and thesis or design project.
• Normally a minimum of 2.5 FCEs (five half courses) and a thesis. Some sections may require 3.0 FCEs (six half courses) and a thesis. Consult the supervisor and/or refer to the departmental graduate student handbook for further details.

Normal Program Length: 5 sessions full-time
Time Limit: 3 years full-time

Master of Engineering

Minimum Admission Requirements
• Students are accepted under the General Regulations.
• Students who do not possess an undergraduate degree in civil engineering may be required to take more than the usual time and number of courses.

Program Requirements
• Each student, in consultation with a staff member at the beginning of the program, will establish the distribution of time between coursework and thesis or design project.
• Normally 5.0 FCEs (10 half courses) for the coursework-only program. Up to 2 courses may be replaced by a research/design project.
• There is no formal residence requirement for MEng students; therefore, the program may be completed through part-time studies.

Normal Program Length: 3 sessions full-time; 5 sessions part-time
Time Limit: 3 years full-time; 6 years part-time
Doctor of Philosophy

Minimum Admission Requirements

- Students are accepted under the following departmental regulations, in addition to the SGS General Regulations and Degree Regulations for the PhD:
  - Satisfy the department of the ability to undertake advanced research.
  - Admission directly from a bachelor's degree is not normally permitted.
  - If a student transfers from a master's degree program to a PhD program, courses taken during the master's program may be applied to the PhD program.

Program Requirements

- A major and two minor fields of study, normally consisting of a minimum of 4.5 FCEs (nine half courses) in total beyond the bachelor's degree. More FCEs may be required depending on the student's background preparation. It is normally expected that at least one of the minor fields will be taken outside of the department.
- PhD students with a MASc degree (or equivalent in the same field) must take a minimum of 2.0 FCEs (four half courses) beyond the MASc degree.
- Students enrolled in the MASc degree program who transfer to the PhD program without submitting a MASc thesis must complete a total of 4.5 FCEs (nine half courses) beyond the bachelor's degree program.
- Students with a MEng degree may use up to 3.0 FCEs (six graduate half courses) from the MEng program towards the PhD course requirements.
- Comprehensive examination after completing most of the coursework and preferably within one year after first enrolment in the PhD program. This examination consists of a four- to five-day take-home written examination, followed approximately a week later by an oral examination. The examination is administered by a Comprehensive Examination Committee created and supervised by the department's Examination and Degree Committee.
- Students normally must spend at least two academic years of their program on campus on a full-time basis.
- The academic program must be approved by the department's Examination and Degree Committee during the student's first session.
- Supervisors are required to establish a supervisory committee for their PhD students by the end of the second year of the student's program. This committee must include the supervisor and at least two graduate faculty members. Membership approval is not required.

Normal Program Length: 4 years full-time; 5 years direct-entry

Time Limit: 6 years full-time; 7 years direct-entry

Course List

Not all courses are given every year. Some courses may require a prerequisite. Please consult the department.

General Interest

- CIV 1001H M.Eng. Project I
- CIV 1002Y M.Eng. Project II
- CIV 1099H Special Studies in Civil Engineering
- CIV 1307H Life Cycle Assessment of Engineering Activities
- CIV 1310H Infrastructure Economics
- CIV 1311H Advanced and Sustainable Drinking Water Treatment
- CIV 1337H Simulation in Civil Engineering
- CIV 1422H Dynamic Response of Engineering Materials
- CIV 1429H Advanced Rock Engineering: Rock Engineering in Fractured Rock Masses
- CIV 1504H Applied Probability and Statistics for Civil Engineering
- CIV 1539H Evaluation of Civil Engineering Systems
- CIV 1600H Readings in Technology and Modern Society I
- CIV 1601H Readings in Technology and Modern Society II

Building Engineering

- CIV 514H Concrete Technology
- CIV 575H Building Science
- CIV 1201H Concrete Technology and Non-Destructive Testing Principles
- CIV 1250H Instrumentation Techniques in Concrete Technology
- CIV 1252H Repair and Maintenance of Concrete Structures
- CIV 1277H Construction Estimating and Finance
- CIV 1278H Pre-Project Planning and Constructability Analysis
- CIV 1279H Construction Contract Documents
- CIV 1280H Building Envelope Design
- CIV 1281H Asset Management
- CIV 1282H Case Studies in Building Science
- CIV 1283H Civil Informatics
- CIV 1299H Special Studies in Civil Engineering

Environmental Engineering

- CIV 540H Treatment Processes
- CIV 549H Groundwater Flow and Contamination
- CIV 550H Water Resources Engineering
- CIV 1303H Water Resources Systems Modelling
- CIV 1305H Water Resources Systems Analysis
Degree and Diploma Programs by Graduate Unit

Civil Engineering

CIV 1308H  Physical and Chemical Treatment Processes
CIV 1309H  Biological Treatment Processes
CIV 1319H  Chemistry and Analysis of Water and Wastes
CIV 1335H  Advanced Hydrogeology
CIV 1399H  Special Studies in Civil Engineering

Geoscience

CIV 523H  Geotechnical Design
CIV 529H  Rock Engineering
CIV 1404H  Material Fracture Dynamics: Experimental Methods
CIV 1410H  Satellite Positioning and Remote Sensing
CIV 1419H  Soil Properties and Behaviour
CIV 1421H  Continuum Mechanics of Fluids and Solids
CIV 1466H  Slopes and Earthworks
CIV 1499H  Special Studies in Civil Engineering

Structural Engineering

CIV 510H  Solid Mechanics II
CIV 513H  Collaborative Engineering and Architectural Design Studio
CIV 517H  Prestressed Concrete Structures
CIV 518H  Behaviour and Design of Steel Structures
CIV 519H  Structural Analysis II
CIV 1163H  Mechanics of Reinforced Concrete
CIV 1164H  Bridge Engineering
CIV 1169H  Advanced Topics in Building Design
CIV 1167H  Advanced Structural Dynamics
CIV 1171H  Earthquake Engineering and Seismic Design
CIV 1174H  Finite Element Methods in Structural Mechanics
CIV 1175H  Design of Tubular Steel Structures
CIV 1180H  Advanced Modeling Methods for Seismic Performance Assessment of Structures
CIV 1185H  Seismic Design with Supplemental Damping and Isolation Systems
CIV 1199H  Special Studies in Civil Engineering
CIV 1361H  Reinforced and Prestressed Concrete Structures

Transportation Engineering and Planning

CIV 531H  Transport III—Planning
CIV 533H  Transport Operations
CIV 1505H  Transportation Research Seminar
CIV 1506H  Freight Transportation and ITS Applications
CIV 1507H  Public Transport
CIV 1508H  Airport Planning and Engineering
CIV 1520H  Travel Survey Methods
CIV 1535H  Transportation and Development
CIV 1532H  Fundamentals of ITS and Traffic Management
CIV 1538H  Transportation Demand Analysis
CIV 1540H  Urban Transportation Networks
CIV 1599H  Special Studies in Civil Engineering

Graduate Faculty

Full Members

Abdulhai, Baher - BEng, MEng, PhD
Adams, Barry - BSc, MS, PhD
Andrews, Robert - BASc, MASc, PhD
Andrews, Susan - BSc, MSc, PhD
Bawden, William - BSc, MSc, PhD
Bentz, Evan - BASc, PhD
Byer, Philip - BS, MS, PhD
Christopoulos, Constanttin - BE, MASc, PhD
Collins, Michael - BE, PhD
Crawford, Adrian - BE, MASc, PhD
El-Diraby, Tamer - PhD
Gauvreau, Douglas Paul - BSc, MSc, PhD, Reg Professional Engineer
Grabinsky, Murray - BASc, MASc, PhD
Grasselli, Giovanni - PhD
Hadjigeorgiou, Ioannis (John) - DIPLGEOL, BASc, ME, DPhil
Harrison, John Paul - BSc, MSc, PhD
Hofmann, Ronald - BEng, MASc, PhD, Reg Professional Engineer
Hooton, R Douglas - BASc, MASc, PhD
Karney, Bryan - BSc, MEng, PhD
Kennedy, Christopher - BEng, MEC, MBA, MASc, PhD
Kwon, Oh-Sung - BS, MS, MS, PhD
MacLean, Heather - BASc, MASc, MBA, PhD
McCabe, Brenda - BSc, PhD, Reg Professional Engineer

(Chair and Graduate Chair)

Mercan, Oya - BS, MS, PhD
Miller, Eric - BASc, MASc, PhD
Nurul Habib, Khandker - MS, PhD
Packer, Jeffrey - BE, MSc, DSc, PhD
Panesar, Daman - BE, ME, PhD
Peterson, Karl - BS, MS, PhD
Pressnail, Kim - BASc, PhD
Roorda, Matthew - BEng, MASc, PhD
Shalaby, Amer - BSc, MASc, PhD
Sheikh, Shamim - BSE, MASc, PhD

(Associate Chair, Academic)

Sleep, Brent - BSc, MASc, PhD
Vanderburg, Willem - BASc, MASc, PhD
Vecchio, Frank - BASc, MEng, PhD
Xia, Kaiwen - BASc, MS, PhD
Young, R. Paul - BSc, MSc, PhD, Chartered Engineer

Members Emeriti

Birkemoe, Peter - BS, MSc, PhD
Curran, John - BASc, MEng, PhD
Ganczarczyk, Jerzy - MSc, DSc, DRHAB
Hauer, Ezra - BSc, MSc, PhD
Hurdle, Vanolin - BS, MEng, PhD
Mohanty, Bibhuti - BSc, MA, MTech, PhD
Selby, Kenneth - BASc, MBA, PhD
Soberman, Richard - BSc, SM, PhD
Steuart, Gerald - BSc, MS, PhD
Timusk, John - BASc, MASc, PhD
Will, George - BASc, MASc

Associate Members

Fotopoulos, Georgia - BSc, MSc, PhD, Reg Professional Engineer
Classics

Faculty Affiliation
Arts and Science

Degree Programs Offered
Classics – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Ancient and Medieval Philosophy
   • Classics, PhD

2. Ancient Greek and Roman History
   • Classics, PhD

3. Book History and Print Culture
   • Classics, MA, PhD

4. Editing Medieval Texts
   • Classics, PhD

5. Sexual Diversity Studies
   • Classics, MA, PhD

6. Women and Gender Studies
   • Classics, MA, PhD

7. Jewish Studies
   • Classics, MA, PhD

Overview
The Department of Classics provides advanced training leading to the Master of Arts and Doctor of Philosophy degrees in Classics, in a wide range of fields: Greek & Latin Literature, Ancient (Greek & Roman) Philosophy, and Greek & Roman History. Collaborative programs, listed above, are available to students enrolled in the specified participating degree programs. In addition, the Joint Collaborative Program in Ancient Greek and Roman History (see separate entry in this calendar) provides for interdisciplinary study with faculty from the graduate program in History at York University.

Information about admission, application procedures and funding is available from the department.

Contact and Address
Web: http://classics.chass.utoronto.ca
Email: grad.classics@utoronto.ca
Telephone: (416) 978-5513
Fax: (416) 978-7307

Department of Classics
University of Toronto
125 Queen’s Park
Toronto, Ontario M5S 2C7
Canada

Degree Programs

Classics

Master of Arts

Minimum Admission Requirements
• Successful completion of an appropriate bachelor’s program in classics or a related field, with at least a B+ average in the final year and the equivalent of at least three and preferably four full years of training in either Greek or Latin and two full years of training in the other.

• Applicants may be admitted to either the one-year or the two-year MA program, depending on their level of preparation.

• Students who are otherwise qualified but who lack the required amount of training in Greek and Latin should consult with the department about further preparation.

Program Requirements
• Depending on their prior preparation, students complete the MA program in either one year or two years. All students must satisfy the following requirements:

  • Completion of the Greek and Latin qualifying examinations (three-hour translation exam in each language, including both prose and poetry) with a grade of at least B-.

  • Completion of GRK 1000H and LAT 1000H (intensive advanced language skills) or equivalent, with a grade of at least B-.

  • Completion of sight translation exams with a grade of at least B-.

  • Graduate Research Paper: Each student is assigned to a faculty advisor for CLA 2000H, the Graduate Research Paper, and works independently on the preparation of a research paper (about 8000 words in length). The Graduate Research Paper is assessed by a committee of two faculty members, including the advisor, and must receive a grade of B or better.

2-Year Master of Arts

• Year 1: Completion of GRK 1000H and LAT 1000H and a selection of other courses approved by the department, with a grade of at least B-. Students may be exempted from either 1000H course if they have satisfactorily completed comparable work in their undergraduate program (with a B+ or above). Students who do not complete these courses with appropriate standing may be required to withdraw from the MA program or to retake the courses.
Degree and Diploma Programs by Graduate Unit

- Year 2: 2.5 FCEs (five half-courses) from the 1300 and 1800 series of courses chosen in consultation with the Graduate Coordinator.
- Completion of the qualifying examinations and sight translation examinations with a grade of at least B-.
- Completion of the Graduate Research Paper with a grade of at least B.

1-Year Master of Arts

- 2.5 FCEs (five half-courses) from the 1300 and 1800 series of courses chosen in consultation with the Graduate Coordinator.
- Students may be required to complete GRK 1000H and/or LAT 1000H (with a minimum grade of B-) to help them prepare for the qualifying examinations.
- Completion of the qualifying examinations and sight translation examinations with a grade of at least B-.
- Completion of the Graduate Research Paper with a grade of at least B.

Normal Program Length: 3 sessions full-time 1-year MA; 6 sessions full-time 2-year MA

Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Standard conditions: successful completion of either a strong bachelor’s program in classics (with at least an A- average in the final year), or a strong master’s program in classics or a related field (with at least a B+ average overall and at least one A-).
- All students must have the equivalent of at least four years of training in each of Latin and Greek and a broad preparation in the reading of ancient texts in the original languages.
- Advanced standing: applicants may be admitted with advanced standing if they have completed the revised MA program at the University of Toronto (having graduated in the year 2000 or later) with grades of at least B+ in all components, and a grade of at least A- on the Graduate Research Paper. Applicants must have reading knowledge of one of the modern languages required for the PhD.

Program Requirements

The following program requirements apply to all doctoral students, whether admitted under standard conditions or with advanced standing:

- Satisfactory completion of required courses (GRK 1000H, LAT 1000H, and CLA 3000H). At the department’s discretion, students who require additional preparation for the qualifying examinations may be required to take a selection of courses approved by the department during their first year before beginning to prepare for the qualifying examinations. Students will be notified of such additional requirements at the time of their offers of admission or early in their first session.
- Satisfactory completion of Graduate Research Paper (CLA 2000H) with a grade of at least A-.
- Doctoral students who complete the Graduate Research Paper at a lower standard which nevertheless satisfies the MA requirement will be granted the MA. Students admitted with advanced standing are exempt from the Graduate Research Paper.
- Completion of qualifying examinations with at least B+ in both languages, or equivalent, by September of the third year of the PhD. PhD students must pass all components of these examinations with grades of at least B+. Doctoral students who complete the qualifying examinations at a lower standard which nevertheless satisfies the MA requirement will be granted the MA. However, they may be required either to withdraw from the doctoral program or to retake the examinations. Students admitted with advanced standing are exempt from the qualifying examinations.
- Satisfactory completion of sight translation examinations in both languages by the third year of the PhD.
- Demonstration of adequate reading knowledge of two languages of research other than English, one of which will normally be German, by the third year of the PhD program.
- Eleven seminars, including at least six research seminars, of which two must be outside the student’s area of concentration. Student must maintain at least an A- average in seminars.
- Major field (CLA 4000Y). The major field defines a broad area within which the dissertation topic falls. It is normally established by the third year of the program (second year for students admitted with advanced standing) and is directed by the supervisory committee. Preparation for the examination includes the completion of a satisfactory research essay. The field is examined by means of two written examinations, one of which must involve translation from the list of primary sources, and an oral examination covering the research essay and the examination papers. The major field examination should be completed by the middle of fourth year (third year for students admitted with advanced standing).
- The dissertation should be completed by the end of the fifth year (fourth year for students admitted with advanced standing).

Normal Program Length: 4 years full-time advanced-standing; 5 years full-time; 5 years direct-entry

Time Limit: 6 years full-time; 7 years direct-entry

0 Course that may continue over a program. The course is graded when completed.
### Course List

Not all courses are offered every year. Please consult the department for course offerings.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRK 1000H</td>
<td>Advanced Studies in Greek Language (Credit/No Credit)</td>
</tr>
<tr>
<td>GRK 1800H</td>
<td>Special Topics in Greek Literature</td>
</tr>
<tr>
<td>GRK 1801H</td>
<td>Special Topics in Greek History</td>
</tr>
<tr>
<td>GRK 1802H</td>
<td>Readings in Greek Epic</td>
</tr>
<tr>
<td>GRK 1803H</td>
<td>Readings in Greek Verse</td>
</tr>
<tr>
<td>GRK 1804H</td>
<td>Readings in Greek Tragedy</td>
</tr>
<tr>
<td>GRK 1805H</td>
<td>Readings in Greek Comedy</td>
</tr>
<tr>
<td>GRK 1806H</td>
<td>Readings in the Greek Historians</td>
</tr>
<tr>
<td>GRK 1807H</td>
<td>Readings in the Greek Philosophers</td>
</tr>
<tr>
<td>GRK 1808H</td>
<td>Readings in the Greek Orators</td>
</tr>
<tr>
<td>GRK 1809H</td>
<td>Archaic Greek Literature and Culture</td>
</tr>
<tr>
<td>GRK 1810H</td>
<td>Classical Greek Literature and Culture</td>
</tr>
<tr>
<td>GRK 1811H</td>
<td>Hellenistic Literature and Culture</td>
</tr>
<tr>
<td>GRK 2500Y0</td>
<td>Greek Qualifying Exam</td>
</tr>
<tr>
<td>GRK 2505Y0</td>
<td>Greek Sight Exam</td>
</tr>
<tr>
<td>LAT 1000H</td>
<td>Advanced Studies in Latin Language (Credit/No Credit)</td>
</tr>
<tr>
<td>LAT 1800H</td>
<td>Special Topics in Latin Literature</td>
</tr>
<tr>
<td>LAT 1801H</td>
<td>Special Topics in Roman History</td>
</tr>
<tr>
<td>LAT 1802H</td>
<td>Readings in Latin Epic</td>
</tr>
<tr>
<td>LAT 1803H</td>
<td>Readings in Latin Verse</td>
</tr>
<tr>
<td>LAT 1804H</td>
<td>Readings in Roman Drama</td>
</tr>
<tr>
<td>LAT 1805H</td>
<td>Readings in Roman Satire and Novel</td>
</tr>
<tr>
<td>LAT 1806H</td>
<td>Readings in the Roman Historians</td>
</tr>
<tr>
<td>LAT 1807H</td>
<td>Readings in the Roman Philosophers</td>
</tr>
<tr>
<td>LAT 1808H</td>
<td>Readings in the Roman Orators</td>
</tr>
<tr>
<td>LAT 1809H</td>
<td>Readings in Roman Republican Literature and Culture</td>
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<tr>
<td>LAT 1810H</td>
<td>Readings in Roman Imperial Literature and Culture</td>
</tr>
<tr>
<td>LAT 2500Y0</td>
<td>Latin Qualifying Exam</td>
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<tr>
<td>LAT 2505Y0</td>
<td>Latin Sight Exam</td>
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<tr>
<td>CLA 1800H</td>
<td>Special Topics in Classical Literature</td>
</tr>
<tr>
<td>CLA 1801H</td>
<td>Special Topics in Ancient History</td>
</tr>
<tr>
<td>CLA 2000F0</td>
<td>MA Special Essay</td>
</tr>
<tr>
<td>CLA 3000H</td>
<td>Research Techniques in Classics</td>
</tr>
<tr>
<td>CLA 3020H</td>
<td>Research Methods in Ancient History</td>
</tr>
<tr>
<td>CLA 3200Y0</td>
<td>Work in Progress in Ancient History</td>
</tr>
<tr>
<td>CLA 3500F0</td>
<td>Minor Field</td>
</tr>
<tr>
<td>CLA 4000Y0</td>
<td>Major Field</td>
</tr>
</tbody>
</table>

### Research Seminars

The following courses are open to students in other departments with the permission of the instructor and the Department of Classics. See the departmental brochure or website for language requirements. Not all courses are offered every year. See the departmental brochure or website for offerings in the current year.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLA 5000H</td>
<td>Early Greek Epic</td>
</tr>
<tr>
<td>CLA 5001H</td>
<td>Early Greek Poetry</td>
</tr>
<tr>
<td>CLA 5002H</td>
<td>Studies in Greek Drama I</td>
</tr>
<tr>
<td>CLA 5003H</td>
<td>Studies in Greek Drama II</td>
</tr>
<tr>
<td>CLA 5004H</td>
<td>Studies in Greek Poetry</td>
</tr>
<tr>
<td>CLA 5007H</td>
<td>Criticism of Latin Poetry</td>
</tr>
<tr>
<td>CLA 5008H</td>
<td>Roman Comedy</td>
</tr>
<tr>
<td>CLA 5009H</td>
<td>Literature of the Roman Republic</td>
</tr>
<tr>
<td>CLA 5010H</td>
<td>Virgil</td>
</tr>
<tr>
<td>CLA 5011H</td>
<td>Satire and Satirical Writing</td>
</tr>
<tr>
<td>CLA 5012H</td>
<td>Studies in Ancient Philosophy I</td>
</tr>
<tr>
<td>CLA 5013H</td>
<td>Studies in Ancient Science</td>
</tr>
<tr>
<td>CLA 5014H</td>
<td>The Ancient Novel</td>
</tr>
<tr>
<td>CLA 5015H</td>
<td>Latin Poetry of the Empire</td>
</tr>
<tr>
<td>CLA 5016H</td>
<td>Topics in Greek and Hellenistic History</td>
</tr>
<tr>
<td>CLA 5017H</td>
<td>Latin Legal Texts and the History of Late Roman Institutions</td>
</tr>
<tr>
<td>CLA 5018H</td>
<td>Topics in Roman History</td>
</tr>
<tr>
<td>CLA 5019H</td>
<td>Topics in Later Roman History</td>
</tr>
<tr>
<td>CLA 5020H</td>
<td>Studies in Ancient Philosophy II</td>
</tr>
<tr>
<td>CLA 5021H</td>
<td>Topics in the Study of Greek and Hellenistic Literature and Culture</td>
</tr>
<tr>
<td>CLA 5022H</td>
<td>Topics in the Study of Greek and Hellenistic Society</td>
</tr>
<tr>
<td>CLA 5023H</td>
<td>Topics in the Study of Roman Literature and Culture</td>
</tr>
<tr>
<td>CLA 5024H</td>
<td>Topics in the Study of Roman Society</td>
</tr>
<tr>
<td>CLA 5025H</td>
<td>Topics in Greek and Hellenistic History II</td>
</tr>
<tr>
<td>CLA 5026H</td>
<td>Topics in Graeco-Roman Historiography I</td>
</tr>
<tr>
<td>CLA 5027H</td>
<td>Topics in Graeco-Roman Historiography II</td>
</tr>
<tr>
<td>CLA 5028H</td>
<td>Topics in Graeco-Roman History I</td>
</tr>
<tr>
<td>CLA 5029H</td>
<td>Topics in Graeco-Roman History II</td>
</tr>
<tr>
<td>JMT 1000H</td>
<td>Andronicus of Rhodes and the Early Peripatos</td>
</tr>
<tr>
<td>JMT 1001H</td>
<td>Topics in Ancient Philosophical Commentators</td>
</tr>
<tr>
<td>JMT 1002H</td>
<td>Augustine: Soliloquiae</td>
</tr>
</tbody>
</table>

### Directed Reading

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLA 1300Y</td>
<td>Studies in Classical Antiquity</td>
</tr>
<tr>
<td>CLA 1301H</td>
<td>Studies in Classical Antiquity</td>
</tr>
<tr>
<td>CLA 1303H</td>
<td>Studies in Classical Antiquity</td>
</tr>
<tr>
<td>CLA 1304H</td>
<td>Studies in Classical Greek</td>
</tr>
<tr>
<td>CLA 1305H</td>
<td>Studies in Classical Latin</td>
</tr>
<tr>
<td>CLA 1306H</td>
<td>Studies in Greek Literature I</td>
</tr>
<tr>
<td>CLA 1307H</td>
<td>Studies in Greek Literature II</td>
</tr>
<tr>
<td>CLA 1308H</td>
<td>Studies in Latin Literature I</td>
</tr>
<tr>
<td>CLA 1309H</td>
<td>Studies in Latin Literature II</td>
</tr>
</tbody>
</table>

### Graduate Faculty

#### Full Members

Barney, Rachel - BA, PhD  
Bruun, Christer - BA, MA, PhD  
Burgess, Jonathan - BA, MA, PhD  
Dewar, Michael - BA, MA, DPhil  
Fantham, Elaine - BA, MA, PhD  
Gunderson, Erik - BA, MA, PhD  
Inwood, Brad - BA, MA, PhD, Fell Royal Society Canada  
Jones, Alexander - BA, PhD, Fell Royal Society Canada  
Keith, Alison - BA, MA, PhD (Chair and Graduate Chair)
Magee, John - BA, MA, PhD
Mason, Hugh - BA, AM, PhD
Revermann, Martin - PhD
Rubincam, Catherine - BA, BA, PhD

Members Emeriti
Barnes, Timothy - BA, MA, DPhil, Fell Royal Society Canada
Beck, Roger - BA, MA, PhD
Grant, John - BA, MA, PhD
Irwin, Marjorie - BA, PhD, PhD
McDonough, Christopher - BA, MA, PhD
Rist, John - MA
Robbins, Emmet - BA, PhD
Traill, John - BA, MA, PhD

Associate Members
Balot, Ryan - BA, AM, PhD
Bendlin, Andreas - PhD
Edmondson, Jonathan - PhD
Ewald, Bjorn - AM, PhD
Hoeschele, Regina - MA, PhD
Kloppenborg, John - BA, MA, PhD
Knappett, Carl - MA, PhD
Marshall, John - BA, MA, PhD
Najman, Hindy - AB, MA, PhD
Orwin, Clifford - AB, AM, PhD
Townsend, David Robert - BA, MA, PhD
Weinrib, Ernest - BA, LLB, PhD
Welsh, Jarrett - BA, MA, PhD
Comparative Literature

Faculty Affiliation
Arts and Science

Degree Programs
Comparative Literature – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Book History and Print Culture
   • Comparative Literature, MA, PhD
2. Diaspora and Transnational Studies
   • Comparative Literature, MA, PhD
3. Jewish Studies
   • Comparative Literature, MA
4. South Asian Studies
   • Comparative Literature, MA, PhD
5. Women and Gender Studies
   • Comparative Literature, MA, PhD

Overview
The Centre for Comparative Literature offers Master of Arts and Doctor of Philosophy degree programs to students qualified to pursue literary studies involving several languages. Students pursue research across languages and national literatures, and theoretical issues that cross traditional disciplines.

Applicants interested in graduate study at the centre should consult the centre’s website. It provides updated information about requirements, graduate programs, course offerings, and academic profiles of graduate faculty.

Admissions are selective; therefore, applicants with the minimum qualifications cannot be guaranteed admission.

Applicants, including those from the University of Toronto, must arrange for recommendations from two referees; must submit a statement of purpose not exceeding 500 words; and must submit a sample of written work, preferably a short essay on a literary topic. Admission to all programs for higher degrees will be based upon the applicant’s undergraduate and graduate records and upon the evidence of the references and statement. The deadline for receiving applications to both the MA and PhD programs is January 15.

All incoming students will meet with the Graduate Coordinator to discuss their program and to decide on their course of study before beginning classes.

Contact and Address
Web: www.complit.utoronto.ca
Email: banguyen@chass.utoronto.ca
Telephone: (416) 813-4041
Fax: (416) 813-4040
Centre for Comparative Literature
University of Toronto
Isabel Bader Theatre
3rd Floor, 93 Charles Street West
Toronto, Ontario M5S 1K9
Canada

Degree Programs

Master of Arts

Minimum Admission Requirements
• General Regulations of the School of Graduate Studies, provided that applicants also satisfy the Centre for Comparative Literature’s requirements stated below. In all cases programs of study must be approved by the centre.
• An appropriate bachelor’s degree from a recognized university that includes courses in literature and languages with an average grade equivalent to at least a University of Toronto B+ in the applicant’s overall program.
• Demonstrated experience in the study of two literatures (or in comparative literature and one national literature) at the undergraduate level and an ability to work at the graduate level in at least one language other than English.
• All applicants must register as full-time students.

Program Requirements
• Students admitted to the MA must complete at least 4.0 full-course equivalents (FCEs) including at least 2.0 FCEs in COL courses, among which must be COL 1000H.
• Students may pursue independent research for credit equivalent to 0.5 FCE at the MA level, under the direction of an advisor approved by the Centre for Comparative Literature.
• A plan of study defined by each MA student through consultation with the Graduate Coordinator in light of the student’s particular areas of interest and background. This plan of study is subject to the approval of the Centre for Comparative Literature. In addition to the numerous courses in literary theory, methodology, and interdisciplinary topics offered by the centre, courses may also be selected...
from departments of language and literature, as well as from other units in the humanities.

- Average of at least B+ in coursework.
- MA students who intend to pursue doctoral studies are strongly advised to make appropriate plans for the acquisition of graduate level competence in a second language and literature other than English. An adequate reading knowledge of this second language must be demonstrated before the MA is received.

**Normal Program Length:** 3 sessions (1 year) full-time

**Time Limit:** 3 years full-time

### Doctor of Philosophy

#### Minimum Admission Requirements

- General Regulations of the School of Graduate Studies, provided that applicants also satisfy the Centre for Comparative Literature’s requirements stated below. In all cases, programs of study must be approved by the centre.
- An appropriate master’s degree with an average grade of at least A-. Normally, the master’s degree will be in Comparative Literature; however, students with a master’s degree in a humanities discipline involving literary studies, especially specific language and literature programs, will also be considered. Demonstrated ability to do advanced research in two languages and literatures other than English.
- Students coming directly out of an appropriate undergraduate program who have a demonstrated, exceptional ability to undertake advanced research in two languages and literatures other than English. May be considered for direct admission into the PhD program.
- Preliminary statement of purpose.

#### Program Requirements

- A student with a bachelor’s degree who is admitted directly to the PhD program must take at least 8.5 full-course equivalents (FCEs), of which 4.5 must be COL courses.
- A student with an MA in Comparative Literature or its equivalent must take at least 4.5 FCEs, of which 2.5 must be COL courses. A student who has an MA in a humanities discipline involving literary studies, especially specific language and literature programs, may be required to take more courses, up to 8.0 FCEs. The actual number of courses required for the PhD will be established at the time of admission through consultation with the Director/Coordinator of Graduate Studies.
- Students define the scope and approach of their plan of study in consultation with the Graduate Coordinator and other faculty. During the first two years of the program, students complete course-work, language requirements, and prepare for the field examination. Coursework must be completed within the first two years of the PhD program. Students constitute a field examination/ supervisory committee and submit a dissertation proposal no later than the end of the second year of PhD study. The field examination is taken no later than the end of the first session of the third year.
- The Centre for Comparative Literature is not obligated to provide supervision in areas which fall outside the competency, interests, or availability of its graduate faculty.
- Students must demonstrate an ability to work at the graduate level in two languages and literatures other than English. An adequate reading knowledge of a third language other than English must be demonstrated before taking the field examination. For this last requirement, it is possible to substitute competency in a non-literary discipline. The Centre reserves the right to determine whether a student has met this requirement. Typically, it will be two graduate half courses. Certification of graduate level competence and reading knowledge in languages is given to all students who qualify.
- Students may pursue independent research for credit equivalent to 0.5 FCE at the PhD level, under the direction of an advisor approved by the Centre.
- All PhD students are required to enrol in COL 4000Y, a credit/non-credit course, in addition to the agreed upon number of FCEs in their individual program. Normally students enrol in COL 4000Y after completing their coursework. The course has no specific content, but it recognizes the work done in preparation for the field examination.
- When the field examination has been completed successfully, the candidate will prepare and defend a dissertation which must be an original and significant contribution to the existing body of knowledge.
- Students’ progress will be assessed at least once a year by the Centre’s Graduate Academic Committee and/or their respective supervisory committees.
- The student must be geographically available, visit the campus regularly, and must register as a full-time student. In addition, a full-time student is not permitted to be absent from the university for an extended period or to participate in a program offered by another university without the explicit written permission of the Centre for Comparative Literature. Ideally, the PhD program in Comparative Literature should be completed in four years, or in five years for students who were admitted by direct entry.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time, 7 years direct-entry
Course List

Students should consult the Comparative Literature handbook as well as the handbooks of other departments for courses that may be taken for credit. Information about course availability is also contained in the handbooks.

Core Program

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>COL 1000H</td>
<td>Faculty Seminar</td>
</tr>
<tr>
<td>COL 2100H</td>
<td>Northrop Frye Professorship Course</td>
</tr>
<tr>
<td>COL 5012Y</td>
<td>Readings in Czech and Russian Literary Theory</td>
</tr>
<tr>
<td>COL 5016H</td>
<td>Art and Politics: Bertolt Brecht, Robert Lepage, Robert Wilson</td>
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<tr>
<td>COL 5027H</td>
<td>Memory, Trauma, and History</td>
</tr>
<tr>
<td>COL 5047H</td>
<td>The Two Avant-Gardes</td>
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<tr>
<td>COL 5056H</td>
<td>Autobiography, Photography, Narrativity</td>
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<tr>
<td>COL 5090H</td>
<td>Global Visual Culture</td>
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<tr>
<td>COL 5094H</td>
<td>Forms of Critical Writing</td>
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<tr>
<td>COL 5095H</td>
<td>Giorgio Agamben: Exception and Potentiality</td>
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<tr>
<td>COL 5096H</td>
<td>The Problem of Translation: Historical, Theoretical and Pragmatic Perspectives</td>
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<tr>
<td>JFC 5025H</td>
<td>Feminism and Postmodernism: Theory and Practice</td>
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<tr>
<td>JLA 5082H</td>
<td>The Rhetoric of Photography</td>
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<tr>
<td>JLA 5097H</td>
<td>Eccocriticism</td>
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<td>JLF 1492H</td>
<td>Retreating the Aesthetic</td>
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Graduate Faculty

Full Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Ambros, Veronika</td>
<td>MA, PhD</td>
</tr>
<tr>
<td>Bai, Ruoyun</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Budde, Antje</td>
<td>PhD</td>
</tr>
<tr>
<td>Cazdyn, Eric</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Comay, Rebecca</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Esonwanne, Uzoma</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Havercroft, Barbara</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Jagoe, Eva-Lynn</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Kleber, Pia</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Komaromi, Ann</td>
<td>MA, DPhil</td>
</tr>
<tr>
<td>Kortenaar, Neil</td>
<td>PhD</td>
</tr>
<tr>
<td>Lahusen, Thomas</td>
<td>MA, PhD</td>
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<tr>
<td>Le Huenen, Roland</td>
<td>DESL</td>
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<tr>
<td>LeBlanc, Julie</td>
<td>BA, PhD</td>
</tr>
<tr>
<td>Li, Victor</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Meng, Yue</td>
<td>BA, MA, MA, PhD</td>
</tr>
<tr>
<td>Revermann, Martin</td>
<td>PhD</td>
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<tr>
<td>Ross, Jill</td>
<td>MA, PhD</td>
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</tbody>
</table>

(Chair of Graduate Studies)

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Rupp, Stephen</td>
<td>BA, MA, MPH, MA, PhD</td>
</tr>
<tr>
<td>Sakaki, Atsuko</td>
<td>PhD</td>
</tr>
<tr>
<td>Sternberg, Ricardo</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Zilcosky, John</td>
<td>BA, MA, MA, PhD</td>
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</tbody>
</table>

Associate Members

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<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Akbari, Suzanne</td>
<td>BA, MA, MPH, PhD</td>
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<tr>
<td>Barnes, Christopher</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Bender, Daniel Eric</td>
<td>BA, PhD</td>
</tr>
<tr>
<td>Blackmore, Josiah</td>
<td>PhD</td>
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<tr>
<td>Capozzi, Rocco</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Clark, Caryl</td>
<td>BMus, MA, PhD</td>
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<tr>
<td>Cozea, Angela</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Goetschel, Willi</td>
<td>PhD</td>
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<tr>
<td>Hewitt, Marsha</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Jackso, Heather</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Keith, Alison</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Kippen, James</td>
<td>BA, PhD</td>
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<tr>
<td>Legge, Elizabeth MM</td>
<td>BA, BA, MA, PhD</td>
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<tr>
<td>Leonard, Garry</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Mason, Hugh</td>
<td>BA, AM, PhD</td>
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<tr>
<td>Matus, Jill</td>
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<tr>
<td>Motsch, Andreas</td>
<td>PhD</td>
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<tr>
<td>Noyes, John</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Patterson, Janet</td>
<td>BA, MA, PhD</td>
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<tr>
<td>Patrick, Julian</td>
<td>PhD</td>
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<tr>
<td>Perron, Paul</td>
<td>PhD</td>
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<tr>
<td>Pietropaolo, Domenico</td>
<td>BSc, MA, PhD</td>
</tr>
<tr>
<td>Pugliese, Olga</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Sarabia, Rosa</td>
<td>BA, PhD</td>
</tr>
<tr>
<td>Somigli, Luca</td>
<td>PhD</td>
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<tr>
<td>Thomson, David</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Trojanowska, Tamara</td>
<td>MA, PhD</td>
</tr>
<tr>
<td>Xie, Ming</td>
<td>PhD</td>
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</tbody>
</table>

Members Emeriti

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Chamberlin, J Edward</td>
<td>BA, PhD</td>
</tr>
<tr>
<td>Davis, Natalie</td>
<td>BA, MA, PhD</td>
</tr>
<tr>
<td>Dolezel, Lubomir</td>
<td>BA, PhD, Fell Royal Society Canada</td>
</tr>
</tbody>
</table>

www.sgs.utoronto.ca/calendar/2011-12
Faculty Affiliation
Arts and Science

Degree Programs Offered
Applied Computing – MScAC
Computer Science – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Dynamics of Global Change
   • Computer Science, PhD
2. Genome Biology and Bioinformatics
   • Computer Science, PhD
3. Knowledge Media Design
   • Computer Science, MSc, PhD

Overview
The Department of Computer Science offers a graduate program leading to three degrees: Master of Science, Master of Science in Applied Computing, and Doctor of Philosophy. The program consists of courses and either research (MSc and PhD) or practicum (MScAC), both of which are conducted under the supervision of a faculty member.

Graduate faculty in the Department of Computer Science are interested in a wide range of subjects related to computing, including programming languages and methodology, software engineering, operating systems, compilers, distributed computation, networks, numerical analysis and scientific computing, financial computation, data structures, algorithm design and analysis, computational complexity, cryptography, combinatorics, graph theory, artificial intelligence, neural networks, knowledge representation, computational linguistics, computer vision, robotics, database systems, graphics, animation, interactive computing, and human-computer interaction.

For further details, consult the Graduate Student Handbook prepared by the department and available at http://web.cs.toronto.edu/program/grad.

Contact and Address
Web: www.cs.toronto.edu
Email: gradprograms@cs.toronto.edu
Telephone: (416) 978-8762
Fax: (416) 946-7132

Degree Programs

Computer Science

Master of Science
Minimum Admission Requirements
• An appropriate bachelor’s degree with a standing equivalent to at least at University of Toronto B+. Preference given to applicants who have studied computer science or a closely related discipline.
• Applicants whose primary language is not English and who graduated from a university where the language of instruction is not English must achieve a TOEFL score of at least 580 on the paper-based test and 4 on the TWE; 93/120 on the Internet-based test and 22/30 on the writing and speaking sections.

Program Requirements
• 2.0 graduate full-course equivalents (FCEs) in computer science. The courses must satisfy a breadth requirement to ensure a broad and well-balanced knowledge of computer science.
• A major research paper (2.0 FCEs) demonstrating the student’s ability to do independent work in organizing existing concepts and in suggesting and developing new approaches to solving problems in a research area. The standard for this paper is that it could reasonably be submitted for peer-reviewed publication.
• This degree is offered on either a full-time or part-time basis.

Normal Program Length: 3 sessions full-time; 8 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy
Minimum Admission Requirements
• Successful completion of an appropriate master’s degree with a standing equivalent to at least a University of Toronto B+. In exceptional circumstances, applicants may be admitted to this program directly from a bachelor’s degree with at
Degree and Diploma Programs by Graduate Unit

Computer Science

Applicants whose primary language is not English and who graduated from a university where the language of instruction is not English must achieve a TOEFL score of at least 580 on the paper-based test and 4 on the TWE; 93/120 on the Internet-based test and 22/30 on the writing and speaking sections.

Program Requirements

• Students entering the PhD program with a computer science master’s degree will require 2.0 full-course equivalents (FCEs) and a thesis. Students admitted to the PhD directly from a bachelor’s degree will require 4.0 FCEs and a thesis. The courses must satisfy a breadth requirement to ensure a broad and well-balanced knowledge of computer science.
• The most important part of doctoral work is original research conducted under the direction of a faculty member. This research must constitute a significant and original contribution to computer science. The results must be presented in a thesis and defended at the departmental oral examination and the doctoral final oral examination.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Applied Computing

Master of Science in Applied Computing

Minimum Admission Requirements

• An appropriate bachelor’s degree in computer science.
• A minimum average grade of B+ over the final two years of undergraduate studies.
• Applicants whose primary language is not English and who have graduated from a university where the primary language of instruction is not English must achieve a TOEFL score of at least 580 on the paper-based test and 4 on the TWE; 93/120 on the Internet-based test and 22/90 on the writing and speaking sections.
• Three letters of support from faculty and/or employers.
• A statement of purpose.

Program Requirements

• This is a 16-month professional master’s program comprising 3.0 full-course equivalents (FCEs) of coursework and an eight-month industrial internship. The internship (3.5 FCEs) is coordinated by the department, and evaluated on a pass/fail basis.
• There is no thesis requirement.

Normal Program Length: 4 sessions full-time
Time Limit: 3 years full-time

Course List

Not all courses are offered every year. Please consult the department for course offerings.

Programming Languages and Methodology

CSC 2104H Formal Methods of Program Design
CSC 2106H Requirements Engineering
CSC 2107H Compilers and Interpreters
CSC 2108H Automated Verification
CSC 2122H Language and Compiler Design
CSC 2123H Managing the Software Organization
CSC 2124H Topics in Programming Languages
CSC 2125H Algorithmic Program Verification
CSC 2130H Empirical Research Methods in Software Engineering

Computer Systems: Hardware and Software

CSC 2203H Packet Switch and Network Architectures
CSC 2204H Operating Systems
CSC 2205H Performance in Distributed Operating Systems
CSC 2206H Computer Systems Modelling
CSC 2207H Topics in Computer Organization
CSC 2208H Advanced Operating Systems
CSC 2209H Computer Networks
CSC 2211H Introduction to Distributed Computing
CSC 2215H Structure and Correctness in Operating Systems
CSC 2226H Topics in Verification
CSC 2227H Topics in the Design and Implementation of Operating Systems
CSC 2228H Topics in Mobile and Pervasive Computing
CSC 2229H Topics in Multiple Access Communications Networks
CSC 2231H Topics in Computer Systems
CSC 2232H Topics in Computer System Performance and Reliability

Numerical Analysis and Scientific Computation

CSC 2301H Numerical Solution of Initial Value Problems for Ordinary Differential Equations
CSC 2305H Numerical Methods for Optimization Problems
CSC 2306H High Performance Scientific Computing
CSC 2307H Numerical Software
Degree and Diploma Programs by Graduate Unit

<table>
<thead>
<tr>
<th>Degree and Diploma Programs by Graduate Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science</td>
</tr>
<tr>
<td>CSC 2308H Numerical Methods for Nonlinear</td>
</tr>
<tr>
<td>Equations</td>
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<tr>
<td>CSC 2310H Computational Methods for Partial</td>
</tr>
<tr>
<td>Differential Equations</td>
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<tr>
<td>CSC 2312H The Design and Assessment of Numerical</td>
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<tr>
<td>Algorithms</td>
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<tr>
<td>CSC 2321H Matrix Calculations</td>
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<tr>
<td>CSC 2322H Boundary Problems for Ordinary</td>
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<tr>
<td>Differential Equations</td>
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<tr>
<td>CSC 2324H Advanced Methods for Partial</td>
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<tr>
<td>Differential Equations</td>
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<tr>
<td>CSC 2326H Topics in Numerical Analysis</td>
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<tr>
<td><strong>Computational Complexity</strong></td>
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<tr>
<td>CSC 2401H Introduction to Computational</td>
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<tr>
<td>Complexity</td>
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<tr>
<td>CSC 2404H Computability and Logic</td>
</tr>
<tr>
<td>CSC 2405H Automata Theory</td>
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<tr>
<td>CSC 2411H Linear Programming and Combinatorial</td>
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<tr>
<td>Optimization</td>
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<tr>
<td>CSC 2415H Advanced Topics in Distributed</td>
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<tr>
<td>Computing</td>
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<tr>
<td>CSC 2416H Machine Learning Theory</td>
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<tr>
<td>CSC 2423H Finite Model Theory and Descriptive</td>
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<td>Complexity</td>
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<tr>
<td>CSC 2426H Fundamentals of Cryptography</td>
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<tr>
<td>CSC 2428H Logic and Automata</td>
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<tr>
<td>CSC 2429H Topics in the Theory of Computation</td>
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<tr>
<td>MAT 1750H Computational Mathematics</td>
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<tr>
<td><strong>Applied Discrete Mathematics</strong></td>
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<tr>
<td>CSC 2406H Triple Systems</td>
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<tr>
<td>CSC 2410H Introduction to Graph Theory</td>
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<tr>
<td>CSC 2412H Computer Algebra</td>
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<tr>
<td>CSC 2413H Combinatorial Methods and Designs</td>
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<td>CSC 2414H Topics in Applied Discrete</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>CSC 2418H Computational Structural Biology</td>
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<tr>
<td>CSC 2420H Algorithm Design, Analysis and</td>
</tr>
<tr>
<td>Theory</td>
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<tr>
<td>CSC 2421H Algebraic and Combinatorial</td>
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<tr>
<td>Techniques in Complexity Theory</td>
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<tr>
<td>CSC 2422H Reasoning About Knowledge</td>
</tr>
<tr>
<td>CSC 2427H Topics in Graph Theory</td>
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<tr>
<td><strong>Artificial Intelligence</strong></td>
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<tr>
<td>CSC 2501H Computational Linguistics</td>
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<tr>
<td>CSC 2502H Knowledge Representation and</td>
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<tr>
<td>Reasoning</td>
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<tr>
<td>CSC 2503H Foundations of Computer Vision</td>
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<tr>
<td>CSC 2506H Probabilistic Learning and</td>
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<tr>
<td>Reasoning</td>
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<tr>
<td>CSC 2511H Natural Language Computing</td>
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<tr>
<td>CSC 2512H Constraint Satisfaction Problems</td>
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<tr>
<td>CSC 2515H Introduction to Machine Learning</td>
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<tr>
<td>CSC 2517H Discrete Mathematical Models of</td>
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<tr>
<td>Sentence Structure</td>
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<tr>
<td>CSC 2518H Spoken Language Processing</td>
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<tr>
<td>CSC 2519H Natural Language Semantics</td>
</tr>
<tr>
<td>CSC 2520H The Computational Lexicon</td>
</tr>
<tr>
<td>CSC 2523H Object Modelling and Recognition</td>
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<tr>
<td>CSC 2528H Advanced Computational Linguistics</td>
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<tr>
<td>CSC 2530H Computer Vision for Advanced Digital</td>
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<tr>
<td>Photography</td>
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<tr>
<td>CSC 2532H Dynamical Systems and Artificial</td>
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<tr>
<td>Intelligence</td>
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<td>CSC 2533H Foundations of Knowledge Representation</td>
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<td>CSC 2534H Decision Making Under Uncertainty</td>
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<td>CSC 2535H Advanced Machine Learning</td>
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<td>CSC 2539H Topics in Computer Vision</td>
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<td>CSC 2540H Special Topics in Computational</td>
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<td>Linguistics</td>
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<td>CSC 2541H Topics in Machine Learning</td>
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<td>CSC 2542H Topics in Knowledge Representation</td>
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<td>and Reasoning</td>
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<td>CSC 2544H Web Searching and Mining</td>
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<td>JST 4501Y Belief Functions and the Assessment</td>
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<td>**Computer Graphics and Human-Computer</td>
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<td>Interaction**</td>
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<td>CSC 2504H Computer Graphics</td>
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<td>CSC 2505H Geometric Representations for</td>
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<td>CSC 2514H Human-Computer Interaction</td>
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<td>CSC 2521H Topics in Computer Graphics</td>
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<td>CSC 2522H Advanced Image Synthesis</td>
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<td>CSC 2524H Topics in Interactive Computing</td>
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<td>CSC 2529H Computer Animation</td>
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<td>CSC 2536H Computer Supported Cooperative Work</td>
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<td><strong>Information Systems</strong></td>
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<td>CSC 2231H Special Topics in Computer Systems</td>
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<td>CSC 2417H Algorithms for Genome Sequence</td>
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<td>Analysis</td>
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<td>CSC 2431H Topics in Computational Molecular</td>
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<td>Biology</td>
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<td>CSC 2507H Conceptual Modelling</td>
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<td>CSC 2508H Advanced Management Systems</td>
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<td>CSC 2509H Data Management Systems</td>
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<td>CSC 2510H Topics in Information Systems</td>
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<td>CSC 2529H Research Topics in Database</td>
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<td>Management</td>
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<td>CSC 2526H HCI: Topics in Ubiquitous Computing</td>
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<td>CSC 2527H The Business of Software</td>
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<td>CSC 2531H Advanced Topics in Data Management</td>
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<td>Systems</td>
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<td>CSC 2538H Topics in Foundations of Databases</td>
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<td>CSC 2543H Research Topics in XML Retrieval</td>
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<td><strong>Special Courses</strong></td>
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<td>CSC 2199H Special Reading Course in Programming</td>
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<td>CSC 2299H Special Reading Course in Computer</td>
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<td>Systems</td>
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<td>CSC 2399H Special Reading Course in Numerical</td>
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<td>Aspects of Computer Science</td>
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<td>CSC 2599H Special Reading Course in Computer</td>
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<td>Applications</td>
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<td>CSC 2600H Topics in Computer Science</td>
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<td>CSC 4000Y MSc Research Project in Computer</td>
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<td>Science</td>
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Courses for MScAC Only
CSC 2701H Communication for Computer Scientists
CSC 2702H Technical Entrepreneurship
CSC 2703H MScAC Internship

Graduate Faculty

Full Members
Abdelrahman, Tarek - BSc, MSc, PhD
Amza, Cristiana - BS, MS, PhD
Bacchus, Fahiem - PhD
Baecker, Ronald - BS, MSc, PhD
Balakrishnan, Ravin - PhD
Beck, J. Christopher - BSc, MSc, PhD
Birnholtz, Jeremy - PhD
Bonner, Anthony - BSc, MSc, PhD
Borgida, Alex - MSc, PhD
Borodin, Allan - BA, PhD
Boutilier, Craig - MSc, PhD
Brudno, Michael (Mikhail) - AB, MSc, PhD
Chechik, Marsha - BS, MS, PhD
Chignell, Mark - BSc, PhD
Christara, Christina - BSc, MSc, PhD
Consens, Mariano - BEng, MSc, PhD
Cook, Stephen - BS, AM, PhD
De Lara, Eyal - BS, MS, PhD
Demke Brown, Angela - PhD
Dickinson, Sven Josef - BASc, MS, PhD (Chair and Graduate Chair)
Easterbrook, Stephen Michael - BSc, PhD
Ellen, Faith - BM, MMath, PhD
Enright, Wayne - BSc, MSc, PhD
Fairgrieve, Thomas - MSc, PhD
Farzan, Azadeh - PhD
Fiune, Eugene - BM, MSc, PhD
Fleet, David James - BS, MS, PhD
Fox, Mark - BSc, PhD
Frey, Brendan - BSc, MSc, PhD
Ganjali, Yashar - BSc, MSc, PhD
Goel, Ashvin - BTech, MS, PhD
Graham, G Scott - BSc, MSc, MA, PhD
Gruninger, Michael - BSc, MS, PhD
Hadzilacos, Vassos - BSE, PhD
Hehner, Eric - BSc, MSc, PhD
Hertzmann, Aaron - BA, MS, PhD (Coordinator of Graduate Studies)
Hinton, Geoffrey - BA, PhD
Hirst, Graeme - BA, BSc, MSc, PhD
Jackson, Kenneth - BSc, MSc, PhD
Jacobsen, Hans-Arno - MSc, PhD
Jepson, Allan - BSc, PhD
Jurisica, Igor - PhD
Koudas, Nick - BS, MS, PhD
Kutulakos, Kiriakos - BS, MSc, PhD
LaMarca, Anthony - BSc, MSc, PhD
Lesperance, Yves - BSc, MSc, PhD
Levesque, Hector - BSc, MSc, PhD
Li, Baocun - BEng, MSc, DPhil
Lie, David - BASc, MS, PhD
Liebeherr, Jorg - DIPING, PhD
Lilien, Ryan - BS, MD, PhD
Marbach, Peter Josef - BS, MS, PhD
McIlraith, Sheila - BSc, MSc, PhD
Mendelsohn, Eric - BSc, MSc, PhD
Mihailidis, Alex - BASc, MSc, PhD
Miller, Renee - BS, BM, MS, PhD
Molloy, Michael - BMath, MMath, PhD
Morris, Quaid - BS, PhD
Moses, Alan - BA, PhD
Moshovos, Andreas - BSc, MS, PhD
Neal, Radford - BSc, MSc, PhD
Penn, Gerald - BS, MSc, PhD
Pitassi, Toniann - PhD
Rackoff, Charles - SB, SM, PhD
Schroeder, Bianca - MSc, PhD
Singh, Karan - BS, MS, PhD
Steffan, J. Gregory - BASc, MS, MSc, PhD
Stevenson, Suzanne Ava - MS, PhD
Stumm, Michael - MS, PhD
Stougie, David - MS, PhD
Truong, Khai Nhu - BSc, PhD
Tsotsos, John - BASc, MSc, PhD
Veneris, Andreas - BASc, MSc, MS, MSc, PhD
Yu, Eric - BSc, MMath, PhD
Zemel, Richard - PhD

Members Emeriti
Cornell, Derek - BSc, MA, PhD
Gottlieb, Calvin Carl - BA, MA, PhD
Hume, James - BA, MA, PhD
Mathon, Rudolf - MSc, PhD
Mylopoulos, John - BE, MSc, PhD
Urquhart, Alasdair - MA, MA, PhD
Wortman, David - BE, MS, PhD

Associate Members
Braverman, Mark - BMath, MSc, PhD
Buxton, William - MUSB
Dahary, John - BLA, MRP
Johnson, Frederick Ryan - BSc, MSEE, PhD
Kim, Philip - BS, PhD
Kreinin, Alexander - MSc, PhD
Lyons, Kelly - BSc, MSc, PhD
Mann, Steve - BSc, BASc, MSc, PhD
Reilly, Derek - BEd, BA, BA, PhD
Smichiesescu, Cristian - MSc, PhD
Trefler, Richard - PhD
Zhang, Zhaolei - BS, PhD
Criminology and Sociolegal Studies

Faculty Affiliation
Arts and Science

Degree Programs Offered
Criminology – MA, JD/MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Addiction Studies
   • Criminology, MA, PhD
2. Diaspora and Transnational Studies
   • Criminology, MA, PhD
3. Sexual Diversity Studies
   • Criminology, MA, PhD
4. Women and Gender Studies
   • Criminology, MA, PhD

Overview
The Centre for Criminology and Sociolegal Studies, founded in 1964, offers advanced interdisciplinary study in two closely related, overlapping areas: criminology and socio-legal studies. While there is no set career path for the MA graduates, they generally find employment in government (in areas such as child and youth services or addiction as well as criminal justice fields), in governmental organizations in the criminal justice field, in social science research, or in other positions for which a background in criminology and legal studies is useful. Some choose to go to law school, and many have gone on to other postgraduate work, e.g. in Criminology, Public Health Sciences, Sociology, Law, and Social Work. On their part, PhD students have mainly found employment in tenure-track positions, most often in sociology departments or in criminology programs. Both graduate degrees are academic rather than professional/vocational.

Students enrolled in doctoral programs in other departments of the University of Toronto may apply to be appointed as Junior Fellows at the Centre for Criminology and Sociolegal Studies. The objective of the program is to involve doctoral students whose work overlaps with the research conducted at the Centre and to enhance the interdisciplinarity of the Centre. Junior Fellows have come from History, Geography, Law, and Sociology. Exceptionally, doctoral students pursuing degrees at other universities but residing in Toronto may apply to be appointed Visiting Junior Fellows.

Contact and Address
Web: www.criminology.utoronto.ca
Email: crim.grad@utoronto.ca
Telephone: (416) 978-7124 ext. 225
Fax: (416) 978-4195
Centre for Criminology and Sociolegal Studies
University of Toronto
14 Queen's Park Crescent West
University of Toronto
Toronto, Ontario M5S 3K9
Canada

Degree Programs
Criminology

Master of Arts

Minimum Admission Requirements

• Applicants must have an appropriate bachelor’s degree from a recognized university. An appropriate bachelor’s degree normally consists of 20 full-course equivalents (FCEs). Applicants with arts and science degrees will normally be required to have at least a B+ standing. Applicants from law schools who have already completed a JD degree or its equivalent will normally be required to have at least a B standing.

• The MA program is designed for students familiar with the approaches and methodologies associated with the social sciences. It would be advantageous for applicants to have some background in criminology and legal studies. Some choose to go to law school, and many have gone on to other postgraduate work, e.g. in Criminology, Public Health Sciences, Sociology, Law, and Social Work. On their part, PhD students have mainly found employment in tenure-track positions, most often in sociology departments or in criminology programs. Both graduate degrees are academic rather than professional/vocational.

• The program can be completed on a full-time or part-time basis. All students will be required to complete the program within the time limits set for the MA degree under the General Regulations. Students with professional experience who meet the academic admission requirements are encouraged to apply to the program.

• It is essential that all incoming graduate students have a command of English. Facility in the English language must be demonstrated by all applicants educated outside Canada whose primary language is not English, and who graduated from a university where the language of instruction and examination was not English. This requirement must be satisfied using a Test of English as a Foreign Language (TOEFL) with a verbal and a written component. To be considered for admission, applicants must achieve the following minimum scores:
Program Requirements

- MA students can complete the program in one of two ways:
  - by completing 4.0 full-course equivalents (FCEs) within 9 months or
  - by completing 3.0 FCEs and a research paper within 12 months
- The degree program divides into two sections: compulsory and optional courses.
  - The compulsory section consists of a course on research methods (CRI 2010H).
  - The optional courses allow students to engage in specialized study of different approaches to, and topics within, criminology and sociolegal studies. The optional courses offered may vary from year to year. In certain cases a student may, with the approval of the Graduate Coordinator, substitute a maximum of 1.5 FCEs from other graduate units in lieu of optional courses in Criminology.

Normal Program Length: 3 sessions full-time; 6 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Combined Juris Doctor/Master of Arts

Law students who also want to pursue graduate work in criminology may undertake the combined JD/MA in Criminology degree program.

Minimum Admission Requirements

- Applicants must gain independent admission to both programs. Applicants may be admitted before they enter the JD program or while they are in the first year.
- Applicants wishing to apply to the Combined JD/MA program in Criminology should contact the Admissions Office, Faculty of Law, University of Toronto at (416) 978-3716.

Program Requirements

- **Year 1**: Students take the full first-year law program.
- **Years 2 and 3**: Over the course of the two combined years students must:
  - take 45 credits in the Faculty of Law;
  - satisfy the compulsory requirements of the upper years of the JD. These are a moot, an extended paper, and a perspective course;
  - take 3.0 FCEs at the Centre for Criminology and Sociolegal Studies, of which
    - 0.5 FCE must be the required research methods course (CRI 2010H)
    - the remaining 2.5 FCEs must be CRI courses and may include the Centre for Criminology and Sociolegal Studies’ Research Paper (CRI 3360Y).
- Students must take a minimum of 1.0 FCE with CRI designations in each of Years 2 and 3 of the program and may take a maximum of 2.0 FCEs with CRI designations per year. The number of law school credits completed each year will be adjusted accordingly, the only requirement being that 45 are completed over the two years.

Normal Program Length: 9 sessions (3 years) full-time
Time Limit: 4 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants normally hold an MA degree in criminology with a minimum A- standing or its equivalent from a recognized university. Students with MAs in disciplines unrelated to criminology may be required to take additional courses as part of their doctoral program.
- It is essential that all incoming graduate students have a command of English. Facility in the English language must be demonstrated by all applicants educated outside Canada whose primary language is not English and who graduated from a university where the language of instruction and examination was not English. This requirement must be satisfied using a Test of English as a Foreign Language (TOEFL) with a verbal and a written component. To be considered for admission, applicants must achieve the following minimum scores:
  - Paper-based TOEFL exam: 580 and 5 on the TWE
  - Internet-based TOEFL exam: 93/120 and 22/30 on the writing and speaking sections.
Official copies of these scores must be submitted to the University before a formal offer of admission can be made.

Program Requirements

- **Residency**: PhD students are required to be on campus full-time for the period of their program. Students are expected to participate in the Centre’s activities associated with the program.
- **One comprehensive exam**: This exam must take the form of a major review paper. Students are
required to read widely on a particular topic and identify and evaluate major theoretical debates and methodological issues. Students should provide an original, critical analysis of the literature and discuss possibilities for future work in their topic area.

- **Course Requirements.** Students must complete a minimum of 2.0 full-course equivalents (FCEs) beyond those taken at the MA level. With approval of the Graduate Coordinator, 1.5 FCEs of these may be from another graduate unit. Students must complete, at either the MA or the PhD level, the required research methods course (CRI 2010H).

- **Language Requirements.** Students must have an adequate knowledge of a language other than English if an additional language is deemed essential for satisfactory completion of research for the thesis.

- **Thesis.** PhD students must prepare an original thesis that is a significant contribution to knowledge in criminology. The thesis is a sustained piece of research written in an integrated series of chapters. The thesis is normally supervised by a member of the graduate faculty in Criminology, with two other members of the graduate faculty serving on the thesis committee.

- **Students will normally complete all course requirements for the PhD in the first year of their PhD program. Comprehensives will normally be completed by the end of the first session of the second year. It is expected that the dissertation should be completed and successfully defended by the end of the fourth year.**

**Normal Program Length:** 4 years full-time  
**Time Limit:** 6 years full-time

### Course List

All courses are half courses (0.5 FCE), with the exception of the Research Paper (1.0 FCE). Not all courses are offered every year. Consult the Centre regarding course availability.

Due to space limitations, Criminology graduate students will be given priority in graduate course enrolment; all other students must receive written permission from the instructor and the graduate coordinator before enrolling in any of the Centre’s graduate courses.

#### Required Course
- CRI 2010H  Methodological Issues in Criminology

#### Optional Courses
- CRI 1020H  Law and Society: Theoretical Perspectives
- CRI 1050H  Theories of Crime and Social Order

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0 Course that may continue over a program. The course is graded when completed.

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### Graduate Faculty

#### Full Members
- Bucerius, Sandra - BA, MA, PhD
- Doob, Anthony - AB, PhD, Fell Royal Society Canada
- Dubber, Markus - AB, JD
- Gartner, Rosemary - BA, AA, MS, PhD
- Hannah-Moffat, Kelly - BA, MA, PhD
- Kruttschnitt, Candace - BA, MA, MPH, PhD
- Levi, Ron - BCL, LLB, LLM, SJD (Coordinator of Graduate Studies)
- Light, Matthew - BA, MA, JD, PhD
- Maurutto, Paula - DPhil
- Peterson-Badali, Michele - BA, MA, PhD
- Phillips, James - LLB, MA, PhD
- Roach, Kent - BA, LLB, LLM
- Tanner, Julian - DipEd, BSc, MA, PhD
- Valverde, Mariana - BA, MA, PhD, Fell Royal Society Canada (Director)
- Wortley, N. Scot - BA, MA, PhD

#### Members Emeriti
- Beattie, John - BS, MA, PhD, Fell Royal Society Canada, Fell Ryl Historical Societ
- Friedland, Martin - BCom, LLB, PhD
- Solomon, Peter - BA, MA, PhD

#### Associate Members
- Condon, Mary - BA, LLM, MA, SJD
- Erickson, Patricia - BA, MA, PhD
- Skilling, Tracey - BA, MASc, PhD
Curriculum, Teaching, and Learning

Faculty Affiliation
Ontario Institute for Studies in Education

Degree Programs Offered
Curriculum Studies and Teacher Development – MEd, MA, PhD
Elementary and Secondary Education – MT
Second Language Education – MEd, MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Comparative, International and Development Education
   - Curriculum Studies and Teacher Development, MA, MEd, PhD
   - Second Language Education, MA, MEd, PhD
2. Educational Policy
   - Curriculum Studies and Teacher Development, MA, MEd, PhD
   - Second Language Education, MA, MEd, PhD
3. Knowledge Media Design
   - Curriculum Studies and Teacher Development, MA, MEd, PhD
   - Second Language Education, MA, MEd, PhD
4. Sexual Diversity Studies
   - Curriculum Studies and Teacher Development, MA, MEd, PhD
5. Women and Gender Studies
   - Curriculum Studies and Teacher Development, MA, MEd, PhD
   - Second Language Education, MA, MEd, PhD

Overview
The Department of Curriculum, Teaching, and Learning offers graduate programs in three areas of study:

1. Curriculum Studies and Teacher Development
2. Elementary and Secondary Education
3. Second Language Education

These programs reflect a variety of scholarly interests and are closely linked with the department’s strong research base.

Contact and Address
Admission
Initial enquiries regarding admission to graduate studies in the Department of Curriculum, Teaching and Learning (CTL) should be made directly to:

The Ontario Institute for Studies in Education (OISE)
Registrar’s Office
Graduate Studies, Admissions Unit
4th Floor, 252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

Program
Web: www.oise.utoronto.ca/ctl
Email: ctlinquiries@utoronto.ca
Telephone: (416) 978-0040
Fax: (416) 926-4744

Department of Curriculum, Teaching and Learning
The Ontario Institute for Studies in Education (OISE)
11th Floor, 252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

Degree Programs
Curriculum Studies and Teacher Development
The Curriculum Studies and Teacher Development (CSTD) program is a forum for systematic reflection on the substance (subject matter, courses, programs of study), purposes, and practices used for bringing about learning in educational settings. Of concern are such fundamental issues as: What should be studied? Why? By whom? In what ways? And in what settings? Reflection upon such issues involves an interplay among the major components of education: learners, subject matter, learning, teaching, and the larger social, political, and economic contexts as well as the immediate instructional situation. Curriculum Studies and Teacher Development program course offerings and guided research opportunities reflect the diverse interests of faculty in a range of areas.

Faculty of the Curriculum Studies and Teacher Development program guide student work in a wide range of inquiry and data analysis methodologies, including qualitative and quantitative research, action research, naturalistic inquiry, teacher inquiry, performed and critical ethnography, and life history.

Interest areas reflect overlapping and intersecting areas of strength in the whole CSTD program, not separate sub-programs. Visit the list of CSTD research interests at www.oise.utoronto.ca/ctl/UserFiles/File/List-CSTD-Research-Interest.pdf for further information. Faculty members working in this program pursue research interests, and offer courses, in areas such as the following:

Curriculum Theories, Perspectives and Teacher Development include broad orientations and diverse settings for research in curriculum, schooling, teaching/learning, educational change.
Degree and Diploma Programs by Graduate Unit

- Assessment and Evaluation
- Comparative Education and Education in International Settings
- Cultural Studies and Critical Theory in Education
- Curriculum and Program Development and Implementation
- Dialogic and Social Constructivist Approaches to Curriculum
- Distance Education and Online Learning Environments
- Education in Non-school Settings
- Feminist Theories in Education
- Holistic Education, Imagination, and Spirituality
- Knowledge Media/Technology, Knowledge Building and Innovation
- Pre-service and In-service Education
- Queer Theories in Education
- School and District Policy, Environments, Change and Reform
- Teacher Education
- Teacher Knowledge/Teacher Identity
- Teacher Leadership
- Teacher Professional Learning, Teachers as Change Agents
- Teachers’ Work, Lives, Narratives, Beliefs and Knowledge

Curriculum Subject Matter and Teaching/Learning Processes include subject area content and/or pedagogical approaches:
- Arts and Aesthetic Education
- Conflict/Peace Education
- Critical and Social Justice Pedagogies
- Democratic Citizenship, Global Perspectives, and Social Sciences Education
- Drama/Theatre Pedagogy
- English Language, Children’s Literature, and Literacy Education
- Health and Physical Education
- Mathematics Education
- Pedagogy, Instructional Design and Student Assessment
- Science and/or Technology Education
- Student and/or Teacher Problem Solving and Critical Thinking

Diverse Student Populations and Curriculum Issues include challenges and issues in constructing and delivering curriculum for particular diverse students and/or for social change:
- Adaptive and Inclusive Classrooms
- Anti-racist, Multicultural and Anti-discriminatory Education
- Early Childhood Education
- Educating Immigrant and English as a Second Language Students
- Franco-Ontario and French Language Minority Education
- Gender and Education
- Gifted Learners
- Sexuality and Anti-homophobia Education
- Students’ Identity Construction
- Urban Youth

Master of Education

The MEd degree program is designed chiefly for the professional development of those who are already engaged in a career related to education.

Minimum Admission Requirements

- Applicants are accepted under the General Regulations, which specify an appropriate bachelor’s degree from a recognized university. This degree must be completed with an academic standing equivalent to a University of Toronto mid-B or better in the final year.
- Ordinarily, applicants will have at least one year of relevant, successful, professional experience prior to applying.
- In the Statement of Intent, applicants should state the reasons they wish to study curriculum at the graduate level. The chief academic interests, professional concerns, and career plans related to curriculum studies and teacher development should be discussed. In order to identify their research interests in their Statement of Intent, applicants should visit the Curriculum Studies and Teacher Development program web page (www.oise.utoronto.ca/ctl/Prospective_Students/CTL_Graduate_Programs). The Admissions Committee reviews this statement to determine the kind of focus or area of study in which an applicant is most interested and to link the applicant to appropriate faculty advisors.

Program Requirements

- 5.0 full-course equivalents (FCEs), of which at least 2.5 FCEs are normally CTL 1000-level courses undertaken in the Curriculum Studies and Teacher Development program. Students are required to successfully complete CTL 1000H.
- Additional study may be required either within the degree program or prior to admission, depending on previous experience and academic qualifications.
- The MEd may be taken on a full-time or part-time basis.

Normal Program Length: 5 sessions (2 years) full-time; 8 sessions part-time

Time Limit: 3 years full-time; 6 years part-time
Master of Arts

The MA degree program is designed to provide academic study and research training related to curriculum studies. Applicants who anticipate going on to further study at the PhD level are advised to apply for enrolment in an MA rather than an MEd degree program.

Minimum Admission Requirements

- Applicants are accepted under the General Regulations. Admission normally requires an appropriate bachelor’s degree, with the equivalent of at least a University of Toronto mid-B or better in the final year, in a relevant discipline or professional program.
- Ordinarily, applicants will have at least one year of relevant, successful, professional experience prior to applying.
- Statement of Intent. Applicants should state the reasons they wish to undertake a research-oriented program of study in curriculum or teacher development. The chief academic interests and experience, professional concerns, and career plans related to an aspect of curriculum studies should be discussed. In order to identify their research interests in their Statement of Intent, applicants should visit the Curriculum Studies and Teacher Development program web page (www.oise.utoronto.ca/ctl/Prospective_Students/CTL_Graduate_Programs/Curriculum_Studies_and_Teacher_Development_(CSTD)/index.html).
- The Admissions Committee reviews this statement to determine the kind of curriculum problem or area of study in which an applicant is most interested and to link the applicant to appropriate faculty advisors.

Program Requirements

- 4.0 full-course equivalents (FCEs), of which at least 2.0 FCEs are normally CTL 1000-level courses undertaken in the Curriculum Studies and Teacher Development program.
- Additional courses may be required of some applicants, depending on previous experience and academic qualifications. Students are required to successfully complete CTL 1000H, and a course in research methods from an approved course listing. See listing of approved research methods courses at www.oise.utoronto.ca/ctl/UserFiles/File/CSTD_Research-Courses_0910.pdf.
- Thesis.
- The MA may be taken on a full-time or part-time basis.
- Note: Students are responsible for meeting deadlines to complete their course requirements, thesis committee formation, and ethical review.

Normal Program Length: 6 sessions full-time; 10 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

The PhD program demands a strong commitment to curriculum research. The Curriculum Studies and Teacher Development program offers both full-time and flexible-time PhD program options. Applicants must declare the option for which they wish to apply.

Minimum Admission Requirements

Full-Time PhD

- Applicants are accepted under the SGS General Regulations. A master’s degree in education from a recognized university with a grade equivalent to a University of Toronto B+ or better and in the same area of specialization as proposed at the doctoral level is required. Further documentation may be required to establish equivalence.
- Applicants ordinarily have a minimum of two years’ professional experience prior to applying.
- Applicants are required to submit, along with the application:
  - Their master’s thesis or a sample of single-authored scholarly writing. For details about what constitutes an appropriate writing sample, visit www.oise.utoronto.ca/ctl/Prospective_Students.
  - A Statement of Intent describing their intellectual interests and concerns relevant to curriculum studies and teacher development, reasons for wishing to take the program, previous qualifications and professional experiences, particular research or professional interests, and future career goals.
  - Two letters of reference, one academic and one professional.

Flexible-Time PhD

- Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option. However, in addition, applicants to the flexible-time PhD should demonstrate that they are active professionals engaged in activities relevant to their proposed program of study. See the OISE Bulletin for more information.

Program Requirements

- Degree requirements for the full-time and flexible-time options of the PhD are the same. Only the length of time to completion differs. (See Time Limit, below.)
The PhD program normally consists of 3.0 full-course equivalents (FCEs), of which at least 2.0 FCEs are ordinarily CTL 1000-level courses. Additional courses may be required of some students.

Students are expected to take CTL 1000H if they did not complete it at the master’s level, and one course in research methods from an approved course listing. This listing is available at the CSTD program web page, www.oise.utoronto.ca/ctl/UserFiles/File/CSTD_Research-Courses_0910.pdf.

Successful completion of a comprehensive examination.

A thesis, embodying the results of an original investigation, and a doctoral final oral examination on the content and implications of the thesis.

Note: Students are responsible for meeting deadlines to complete their course requirements, thesis committee formation, comprehensive examination, and ethical review.

Normal Program Length: 4 years full-time; 8 years flexible-time

Time Limit: 6 full-time; 8 years flexible-time

Course List

Not all courses are offered every year. Please consult the department for course offerings.

Master’s Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CTL 1000H</td>
<td>Fondements du l'étude des programmes scolaires</td>
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<tr>
<td>CTL 1000H</td>
<td>Foundations of Curriculum Studies</td>
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<tr>
<td>CTL 1001H</td>
<td>Values and Schooling</td>
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<tr>
<td>CTL 1002H</td>
<td>Planification de la programmation pour un enseignement efficace</td>
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<tr>
<td>CTL 1002H</td>
<td>Curriculum Development for Effective Teaching</td>
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<tr>
<td>CTL 1003H</td>
<td>Language Arts in Primary Education</td>
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<tr>
<td>CTL 1005H</td>
<td>Language, Literacy, and the School Curriculum</td>
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<tr>
<td>CTL 1007H</td>
<td>Communities of Learning: Teachers Constructing Professional Knowledge</td>
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<tr>
<td>CTL 1008H</td>
<td>Children’s Literature as a Foundation of Literate Behaviour Across the Curriculum</td>
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<tr>
<td>CTL 1009H</td>
<td>Theory and Practice in Elementary Literacy Instruction</td>
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<tr>
<td>CTL 1010H</td>
<td>Children’s Literature Within a Multicultural Context</td>
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<td>CTL 1011H</td>
<td>Anti-discriminatory Education in School Settings</td>
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<tr>
<td>CTL 1012H</td>
<td>Curriculum for Girls and Young Women: Historical and Contemporary Issues</td>
</tr>
<tr>
<td>CTL 1014H</td>
<td>Evaluation of Curriculum and Instruction</td>
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<tr>
<td>CTL 1016H</td>
<td>Cooperative Learning Research and Practice</td>
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<tr>
<td>CTL 1018H</td>
<td>Introduction to Qualitative Inquiry in Curriculum, Teaching, and Learning</td>
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<tr>
<td>CTL 1019H</td>
<td>Authentic Assessment</td>
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<tr>
<td>CTL 1020H</td>
<td>Teaching High Ability Students</td>
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<tr>
<td>CTL 1023H</td>
<td>Technology and Education: Critical Perspectives on Theory and Practice</td>
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<tr>
<td>CTL 1024H</td>
<td>Poststructuralism and Education</td>
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<td>CTL 1026H</td>
<td>Improving Teaching</td>
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<tr>
<td>CTL 1027H</td>
<td>Facilitating Reflective Professional Development</td>
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<tr>
<td>CTL 1028H</td>
<td>Constructive Feedback in Teaching</td>
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<tr>
<td>CTL 1029H</td>
<td>From Student to Teacher: Professional Induction</td>
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<td>CTL 1031H</td>
<td>Language, Culture, and Identity: Using the Literary Text in Teacher Development</td>
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<td>CTL 1032H</td>
<td>Knowing and Teaching</td>
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<td>CTL 1033H</td>
<td>Multicultural Perspectives in Teacher Development: Reflective Pracitum</td>
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<tr>
<td>CTL 1036H</td>
<td>Thoughtful Teaching and Practitioner Inquiry</td>
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<td>CTL 1037H</td>
<td>Teacher Development: Comparative and Cross-Cultural Perspectives</td>
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<td>CTL 1038H</td>
<td>Change and Curriculum Implementation</td>
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<tr>
<td>CTL 1039H</td>
<td>Teaching Writing in the Classroom</td>
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<td>CTL 1040H</td>
<td>Fundamentals of Program Planning and Evaluation</td>
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<td>CTL 1041H</td>
<td>Research Methods In Education</td>
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<td>CTL 1043H</td>
<td>Research Issues in Alternative Assessments</td>
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<td>CTL 1045H</td>
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<td>CTL 1060H</td>
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<td>CTL 1105H</td>
<td>Research and Inquiry in Arts Education</td>
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<td>CTL 1106H</td>
<td>Spirituality in Education</td>
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<td>CTL 1110H</td>
<td>The Holistic Curriculum</td>
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<td>CTL 1112H</td>
<td>Expressive Writing: Practice and Pedagogy</td>
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<td>CTL 1115H</td>
<td>Teacher Education and the Construction of Professional Knowledge: Holistic Perspectives</td>
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<tr>
<td>CTL 1116H</td>
<td>Holistic Education Approaches in Elementary School Mathematics</td>
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<tr>
<td>CTL 1117H</td>
<td>Liberatory Practices in Drama and Education</td>
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<tr>
<td>CTL 1119H</td>
<td>Gaining Confidence in Mathematics: A Holistic Approach to Rebuilding Math Knowledge and Overcoming Anxiety</td>
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<tr>
<td>CTL 1200H</td>
<td>Science in the School Curriculum</td>
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<td>CTL 1202H</td>
<td>Mathematics in the School Curriculum: Elementary</td>
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<tr>
<td>CTL 1206H</td>
<td>Teaching and Learning Science</td>
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<tr>
<td>CTL 1207H</td>
<td>Teaching and Learning about Science: Issues and Strategies in Science, Technology, Society, and Environment (STSE) Education</td>
</tr>
<tr>
<td>CTL 1208H</td>
<td>Curriculum Issues in Science and Technology: An Historical Perspective</td>
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<tr>
<td>CTL 1209H</td>
<td>Current Issues in Science and Technology Education</td>
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### Degree and Diploma Programs by Graduate Unit

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CTL 1211H</td>
<td>Action Research in Science, Mathematics, and Technology Education</td>
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<tr>
<td>CTL 1212H</td>
<td>Curriculum Making in Science: Some Considerations in the History, Philosophy and Sociology of Science</td>
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<tr>
<td>CTL 1214H</td>
<td>Equity Issues in Science Education</td>
</tr>
<tr>
<td>CTL 1215H</td>
<td>Teaching and Learning About Science and Technology: Beyond Schools</td>
</tr>
<tr>
<td>CTL 1216H</td>
<td>Teacher Leadership in Curriculum, Teaching and Technology Education</td>
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<tr>
<td>CTL 1217H</td>
<td>Integrating Science, Mathematics and Technology Curricula</td>
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<tr>
<td>CTL 1218H</td>
<td>Culture and Cognition in Mathematics, Science and Technology Education</td>
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<tr>
<td>CTL 1219H</td>
<td>Making Secondary Mathematics Meaningful</td>
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<tr>
<td>CTL 1220H</td>
<td>Sociocultural Theories of Learning</td>
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<tr>
<td>CTL 1221H</td>
<td>Experiencing Science Education as a Global Educational and Development Endeavour</td>
</tr>
<tr>
<td>CTL 1304H</td>
<td>Cultural Studies and Education</td>
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<tr>
<td>CTL 1305H</td>
<td>La recherche qualitative en éducation: bases théoriques et pratiques</td>
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<tr>
<td>CTL 1306H</td>
<td>Qualitative Research Methods in Education: Concepts and Methods</td>
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<tr>
<td>CTL 1307H</td>
<td>Identité collective et éducation minoritaire de langue française</td>
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<tr>
<td>CTL 1307H</td>
<td>Identity Construction and Education of Minorities</td>
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<tr>
<td>CTL 1309H</td>
<td>Les stéréotypes sexuels dans les programmes scolaires</td>
</tr>
<tr>
<td>CTL 1312H</td>
<td>Democratic Citizenship Education</td>
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<tr>
<td>CTL 1313H</td>
<td>Gender Equity in the Classroom</td>
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<tr>
<td>CTL 1316H</td>
<td>Global Education: Theory and Practice</td>
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<tr>
<td>CTL 1318H</td>
<td>Teaching Conflict and Conflict Resolution</td>
</tr>
<tr>
<td>CTL 1400H</td>
<td>Classroom Adaptations and Instructional Strategies</td>
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<tr>
<td>CTL 1402H</td>
<td>Adaptive Instruction in Inclusive Classrooms</td>
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<tr>
<td>CTL 1403H</td>
<td>Special Education and Social Representation of Difference</td>
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<tr>
<td>CTL 1602H</td>
<td>Introduction to Computers in Education</td>
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<tr>
<td>CTL 1603H</td>
<td>Introduction to Knowledge Building</td>
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<tr>
<td>CTL 1604H</td>
<td>Video/Multimedia Design</td>
</tr>
<tr>
<td>CTL 1606H</td>
<td>Computers in the Curriculum</td>
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<tr>
<td>CTL 1608H</td>
<td>Constructive Learning and Design of Online Environment</td>
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<tr>
<td>CTL 1609H</td>
<td>Educational Applications of Computer-Mediated Communication</td>
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<tr>
<td>CTL 1611H</td>
<td>Computer-Mediated Distance Education</td>
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<tr>
<td>CTL 1612H</td>
<td>The Virtual Library (Non-Credit)</td>
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<td>CTL 1614H</td>
<td>Knowledge Media and Learning</td>
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<tr>
<td>CTL 1797H</td>
<td>Practicum in Curriculum: Master's Level</td>
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<tr>
<td>CTL 1798H</td>
<td>Individual Reading and Research in Curriculum: Master's Level</td>
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<tr>
<td>CTL 1799H</td>
<td>Special Topics in Curriculum: Master's Level</td>
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**Doctoral Level**

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<th>Course Title</th>
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<tr>
<td>CTL 1801H</td>
<td>Action Research and Professional Practice</td>
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<tr>
<td>CTL 1805H</td>
<td>Advanced Seminar in Language and Learning: Theory and Practice</td>
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<tr>
<td>CTL 1808H</td>
<td>Curriculum Innovation in Teacher Education</td>
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<tr>
<td>CTL 1809H</td>
<td>Narrative and Story in Research and Professional Practice</td>
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<td>CTL 1810H</td>
<td>Qualitative Research in Curriculum and Teaching</td>
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<td>CTL 1811H</td>
<td>Writing Research/Research Writing: Moving from Idea to Reality</td>
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<td>CTL 1812H</td>
<td>Professional Ethics of Teaching and Schooling</td>
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<tr>
<td>CTL 1816H</td>
<td>Official Discourses and Minority Education</td>
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<tr>
<td>CTL 1817H</td>
<td>Current Issues in Teacher Education</td>
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<tr>
<td>CTL 1818H</td>
<td>Arts in Education: Concepts, Contexts and Frameworks</td>
</tr>
<tr>
<td>CTL 1819H</td>
<td>Multicultural Literature in the Schools: Critical Perspectives and Practices</td>
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<tr>
<td>CTL 1822H</td>
<td>Urban School Research: Youth, Pedagogy, and the Arts</td>
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<tr>
<td>CTL 1825H</td>
<td>The Teacher as a Contemplative Practitioner</td>
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<tr>
<td>CTL 1841H</td>
<td>Research Seminar in Science, Mathematics and Technology Education</td>
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<td>CTL 1842H</td>
<td>Mixed Methods Research in Education: Combining Qualitative and Quantitative Inquiries</td>
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<tr>
<td>CTL 1844H</td>
<td>Seminar in Evaluation Problems</td>
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<td>CTL 1846H</td>
<td>Assessment for Teaching and Learning</td>
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<td>CTL 1847H</td>
<td>Data Analysis and Integration in Mixed Methods Research</td>
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<td>CTL 1861H</td>
<td>Critical Ethnography</td>
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<td>CTL 1864H</td>
<td>Methodologies for Comparing Educational Systems</td>
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<td>CTL 1923H</td>
<td>Technology Supported in Situ Learning</td>
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<td>CTL 1926H</td>
<td>Knowledge Media and Learning</td>
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<td>CTL 1997H</td>
<td>Practicum in Curriculum: Doctoral Level</td>
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<tr>
<td>CTL 1998H,Y</td>
<td>Individual Reading and Research in Curriculum: Doctoral Level</td>
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<tr>
<td>CTL 1999H</td>
<td>Special Topics in Curriculum: Doctoral Level</td>
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</tbody>
</table>

### Elementary and Secondary Education

**Master of Teaching**

The Master of Teaching in Elementary and Secondary Education program offers students a unique educational opportunity that combines teacher qualification with advanced study of educational theory and an opportunity to conduct research. The program provides students with a strong grounding in curriculum, human development, ethics, educational law, diversity, educational technology, teaching, and learning. This teacher education program offers the opportunity for elementary and secondary student teachers to deepen their knowledge of all aspects of teaching. The high level of academic rigor, combined with increased
practice teaching experiences enhances and extends the theoretical and practical knowledge of students preparing to become teachers.

The program includes: formal coursework, teaching and research seminars, practice teaching, internship, and a major research project.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must have an appropriate bachelor’s degree with the equivalent of a University of Toronto mid-B or better in the final year.
- In their Statement of Intent, applicants should describe three significant teaching and/or teaching-related experiences that they have had, especially with groups of children. With reference to these experiences, applicants should identify insights gained about teaching and learning, and explain how, based on these insights, they might contribute to the education of students in today’s schools. In addition, applicants are requested to list, in chart form, the extent of their experience working with children. The chart should include dates, location of experience, role, and number of hours working with students.
- Given program limitations, not all eligible applicants are guaranteed admission.
- Because applicants are applying to a teacher education program, the following items must be submitted with the application:
  - a photocopy of a Canadian birth certificate, or in the case of a person who was not born in Canada, documents showing the basis upon which the applicant is present in Canada, including date and place of birth
  - a photocopy of a certificate of change of name where applicable
- A police record check is required for certification by the Ontario College of Teachers and is required in both the first and second year of the program.

Program Requirements

- The two-year MT degree requires 8.0 full-course equivalents (FCEs), i.e., 16 half courses. Please refer to the OISE Bulletin for more information.
- Students must successfully complete a comprehensive examination at the end of the program in order to graduate and receive the MT degree and a recommendation to the Ontario College of Teachers for an Ontario Teachers’ Certificate of Qualification.
- Normally, advanced standing is not granted in this program.
- The two-year program is undertaken on a full-time basis. Registration in the second year is contingent upon successful completion of all first-year work.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Course List

The following courses include core and specific courses. Please refer to the OISE Bulletin for more information.

- CTL 7000H Curriculum and Teaching in Literacy
- CTL 7002H Curriculum and Teaching in Mathematics
- CTL 7003H Curriculum and Teaching in Social Studies and Science
- CTL 7004Y Practicum in the Schools
- CTL 7005Y Practicum Internship
- CTL 7006H Reflective Teaching and Inquiry into Research in Education
- CTL 7007H Authentic Assessment
- CTL 7008H Introduction to Special Education and Adaptive Instruction
- CTL 7009H Issues in Numeracy and Literacy
- CTL 7010H Child and Adolescent Development
- CTL 7011H Issues in Secondary Education
- CTL 7012H Arts in Education
- CTL 7013H Fundamentals of Teaching
- CTL 7014H From Student to Professional
- CTL 7016H Integrating Technology into the Classroom: Issues and Activities
- CTL 7020Y Curriculum and Teaching in English - Intermediate/Senior
- CTL 7021Y Curriculum and Teaching in History - Intermediate/Senior
- CTL 7022H Curriculum and Teaching in Mathematics—Secondary
- CTL 7023Y Curriculum and Teaching in Science: Biology—Intermediate/Senior

Elective Courses

The one elective course is normally selected from other graduate courses offered at OISE. This course is taken in the summer after the first year or in the second year. Choice of electives is contingent upon the approval of the student’s faculty advisor.

Second Language Education

Studies in Second Language Education (SLE) focus on curriculum, instruction, learning, and policies for education in second, foreign, and minority languages, particularly in reference to English and French in Canada but also other languages and settings, including studies of language learning, methodology and organization of classroom instruction, language education policies and planning, and student and program evaluation as well as issues related to bilingualism, multilingualism, cultural diversity, and literacy.
Master of Education

Minimum Admission Requirements

- Applicants are accepted under the General Regulations, which specify an appropriate bachelor’s degree from a recognized university, with the equivalent of a University of Toronto mid-B or better in the final year.
- Ordinarily, applicants should have teacher certification and at least one year of relevant successful professional experience prior to applying.
- All applicants are required to submit a resume and a Statement of Intent describing their reasons for wishing to take the program, previous qualifications and professional experiences, particular research or professional interests, and future goals.

Program Requirements

- The MEd program consists of 5.0 full-course equivalents (FCEs). A minimum of 2.5 FCEs CTL 3000-level courses must be taken. Of these, 1.0 FCE are required courses and must be selected from the following list:
  - CTL 3000H Bilingual and Multicultural Education
  - CTL 3002H Second Language Teaching Methodologies
  - CTL 3003H Planning and Organizing the Second Language Curriculum
  - CTL 3010H Second Language Learning
- The MEd program of study may be taken on a full- or part-time basis.

Normal Program Length: 4 sessions (2 years) full-time; 6 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Master of Arts

Minimum Admission Requirements

- Applicants are accepted under the General Regulations. Admission requires an appropriate bachelor’s degree, with the equivalent of a University of Toronto mid-B or better in the final year, in a relevant discipline or professional program.
- Ordinarily, applicants should have teacher certification and at least one year of relevant successful professional experience prior to applying.
- Enrolment in the MA (rather than MEd) program is advisable for applicants expecting to pursue a doctorate in the future.
- All applicants are required to submit a resume and a Statement of Intent describing their reasons for wishing to take the program, previous qualifications and professional experiences, particular research or professional interests, and future career goals.

Program Requirements

- The MA program may be undertaken on a full-time or part-time basis.
- The program requires 4.0 full-course equivalents (FCEs) or 8.0 half courses plus a thesis.
- Students must take a minimum of 2.0 FCEs CTL 3000-level courses within the SLE program. Courses must include CTL 3001H Research Colloquium in Second Language Education. Part-time students are expected to be available to take CTL 3001H during daytime hours (usually Friday afternoons).
- Students must also take a course in research methods relevant to the topic of the thesis. Any of the following courses can fulfill this requirement:
  - CTL 1018H, CTL 1030H, CTL 1041H, CTL 1306H, CTL 1810H, CTL 1842H, CTL 3019H, CTL 3000H, CTL 3003H, CTL 3807H, AEC 1400H, HDP 1287H, HDP 1288H or SES 1905H. Students wishing to propose an alternative course to fulfill one of the SLE course requirements will be required to obtain the approval of both the SLE graduate program coordinator and either their faculty advisor or their thesis supervisor.
- Additional courses may be required of some applicants.

Normal Program Length: 6 sessions full-time; 10 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Individuals participating in the PhD program must have a strong commitment to research. The SLE program offers both full-time and flexible-time PhD options. Applicants must declare their preferred option when applying.

Minimum Admission Requirements

Full-Time PhD

- Applicants are accepted under the SGS General Regulations. An appropriate master’s degree with a grade equivalent to a University of Toronto B+ or better from a recognized university is required.
- Admission is contingent upon satisfactory completion of a master’s thesis, or the equivalent in the form of a scholarly piece of writing.
- Ordinarily, applicants will have a minimum of two years relevant professional experience prior to applying.
- All applicants are required to submit a resume and a Statement of Intent describing their reasons for wishing to take the program, previous qualifications
and professional experiences, particular research or professional interests, and future career goals.

Flexible-Time PhD

- Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option. However, in addition, applicants to the flexible-time PhD should demonstrate that they are active professionals engaged in activities relevant to their proposed program of study. See the OISE Bulletin for more information.

Program Requirements

- Degree requirements for the full-time and the flexible-time PhD programs are the same.
- The PhD requires 3.0 to 4.0 full-course equivalents (FCEs) depending on previous experience and academic qualifications.
- Students must take a minimum of 2.0 FCEs of CTL 3000-level courses within the SLE program, including CTL 3001H Research Colloquium in Second Language Education. If CTL 3001H was taken at the master’s level, students are not permitted to take it again and should substitute it with another CTL 3000-level course.
- A research methods course relevant to the topic of the thesis is also a requirement of the PhD program unless students have previously taken it at the master’s level. Any of the following courses can fulfill this requirement: CTL 1018H, CTL 1030H, CTL 1041H, CTL 1306H, CTL 1810H, CTL 1842H, CTL 3019H, CTL 3800H, CTL 3803H, CTL 3807H, AEC 1400H, HDP 1287H, HDP 1288H, SES 1905H.

- Comprehensive examination.
- A thesis embodying the results of an original investigation, and a doctoral final oral examination on the content and implications of the thesis.
- A student wishing to propose an alternative course to fulfill one of the SLE course requirements will be required to obtain the approval of the SLE Program Coordinator and either her or his faculty advisor or thesis supervisor.

Full-Time PhD: A minimum of two consecutive years of full-time study are required at the beginning of the program, during which time students usually complete course requirements, pass the comprehensive examination, prepare a thesis proposal, and form a thesis committee.

Flexible-Time PhD: Students may apply for part-time status after four years of full-time registration.

Normal Program Length: 4 years full-time; 7 years flexible-time

Time Limit: 6 years full-time; 8 years flexible-time

Course List

Not all courses are offered every year. Please consult the department for course offerings.

Master's Level

- CTL 3000H Foundations of Bilingual and Multicultural Education
- CTL 3001H Research Colloquium in Second Language Education
- CTL 3002H Second Language Teaching Methodologies
- CTL 3002Y Methodology and Organization of Second-Language Teaching
- CTL 3003H Planning and Organizing the Second Language Curriculum
- CTL 3004H Language Awareness and its Role in Teacher Development
- CTL 3005H Current Issues in English as a Second Language
- CTL 3007H Discourse Analysis
- CTL 3007H Séminaire sur le langage et la communication
- CTL 3008H Critical Pedagogy, Language, and Cultural Diversity
- CTL 3010H Second-Language Learning
- CTL 3011H Bilingual Education and Bilingualism
- CTL 3011H Bilinguisme et éducation ou membre de la faculté à déterminer
- CTL 3013H Second Language Assessment
- CTL 3015H Seminar in Second-Language Literacy Education
- CTL 3018H Language Planning and Policy
- CTL 3018H Politique et aménagement linguistique
- CTL 3019H Research Themes in Canadian French as a Second Language Education
- CTL 3020H Writing in a Second Language
- CTL 3021H Pedagogical Grammar of French
- CTL 3023H Sociolinguistique du français canadien
- CTL 3024H Second Language Teacher Education
- CTL 3025H Applied Sociolinguistics in Second Language Education
- CTL 3026H Pragmatics in Second Language Education
- CTL 3797H Practicum Second Language Education: Master’s Level
- CTL 3798H Individual Reading and Research in Second Language Education: Master’s Level
- CTL 3799H Special Topics Second Language Education: Master’s Level
- JHC 1251H Reading in a Second Language
- JTE 1952H Language Culture and Education/M. Heller

Doctoral Level

- CTL 3800H Second Language Classroom Research
- CTL 3803H Ethnographic Research in the Language Disciplines
- CTL 3806H Sociocultural Theory and Second Language Learning
- CTL 3807H Processing Second Language Data
- CTL 3808H The Role of Instruction in Second Language Learning
Degree and Diploma Programs by Graduate Unit

Graduate Faculty

Full Members

Beattie, Mary - BA, BA, MA, MEd, EdD
Bencze, Lawrence - BEd, BSc, MSc, PhD
Bennett, Barrie - BPHE, MEd, PhD
Bickmore, Kathy - MA, PhD
Brett, M. Clay - BA, MA, PhD (Associate Chair, Graduate Studies)
Cameron, Linda - BA, MEd, EdD
Campbell, Elizabeth - BA, BEd, MEd, PhD
Cohen, Rina - MSc, PhD
Conle, Carol - BA, MEd, PhD
Cooper, Karyn - PhD
Cumming, Alister - BA, MA, PhD
Cummins, James - BA, PhD
Danesi, Marcel - BA, MA, PhD
Dave, Lynn - BA, MA, PhD
Diamond, Colin - BA, PhD
Earl, Lorna - PhD
Evans, Mark - BE, BA, MA, PhD
Farrell, Joseph - BSc, PhD
Feuerverger, Grace - BA, MA, PhD
Gagne, Antoinette - BEd, MEd, PhD
Gallagher, Kathleen Marie - PhD
Gerin-Lajoie, Diane - BSc, MA, PhD
Gitiar, Wanja - BEd, MA, PhD
Goldstein, Tara - BA, PhD
Helms-Park, Rena - BA, MA, AM, DPhil
Hewitt, James - BEd, BMath, MEd, PhD (Associate Chair, Graduate Studies)
Hidi, Suzanne - BA, MA, PhD
Hodson, Derek - BSc, MEd, PhD
Kerekes, Julie - BA, MA, PhD
Kilbourn, Brent - BS, PhD
Koo, Mary - BA, MA, PhD
Kosnik, Clare - DPhil, DPhil
Labrie, Normand - BA, MA, PhD
Lam, Tony - BA, MA, PhD
McDougall, Douglas - BM, BEd, MEd, EdD (Chair and Graduate Chair)
Miller, John - BA, MAT, PhD
Pedretti, Erminia - BE, MEd, PhD
Picardo, Enrica - MA, PhD
Rolheiser, N Carol - BEd, MEd, PhD
Scardamalia, Marlene - PhD
Simon, Roger - BS, PhD
Slotta, James - BS, MPSY, PhD
Smyth, Elizabeth - BA, BEd, MA, EdD
Spada, Nina - BA, MA, PhD
Springgay, Stephanie - BEd, BFA, MA, PhD
Stagg Peterson, Shelley - BE, BE, BE, MEd, EdD
Sykes, Heather - BSc, PhD
Thiessen, Dennis - AB, MEd, DPhil
Trifonas, Peter - BE, BA, PhD
Wahlstrom, Merlin - BEd, MEd, PhD
Wallace, John - BSc, BEd, MSc, PhD
Willows, Dale - PhD
Wilson, David - BA, MSc, PhD
Wolfe, Richard - BA

Members Emeriti

Aitken, Johan - BA, MA, PhD
Allen, Patrick - BA, MA, PhD
Beck, Clive - PhD
Bogdan, Deanne - BA, MA, PhD
Booth, David - BA, MEd
Churchill, Stacy (Jr.) - PhD
Connelly, Michael - BSc, BEd, MSc, PhD
Darroch-Lozowski, Vivian - BSc, MA, PhD
Frenette, Normand - BA, MA, MA, MEd, PhD
Hanna, Gila - BA, MA, MEd, PhD
Harley, Birgit - BA, MA, PhD
Jordan, Anne - BA, MA, PhD
Kelly, Brendan - BSc, MSc, PhD
Lapkin, Sharon - BA, MA, PhD
Logan, Robert - BSc, PhD
Nagy, Philip - BSc, MEd, PhD
Nishisato, Shizuhiko - BA, MA, PhD
Silvers, Ronald - BA, MA, PhD
Swain, Merrill - BA, PhD
Traub, Ross - PhD

Associate Members

Allen, Guy - BA, MA, PhD
Broad, Kathy - BEd, BA, MEd, PhD
Burnaby, Barbara - BA, BA, MA, PhD
Connelly, Christine - BA, BEd, MEd, EdD
Gaztambide-Fernandez, Ruben - BM, MEd, EdD
Huney, Ian - BA, MA
Jang, Eunice - BA, MA, PhD
King, Ruth - PhD
Lancaster, Ron - BEd, BS, MMath
Mandigo, James Loyd - BA, MA, PhD
Marks Kran, Cathy - BEd, MEd, EdD
McCready, Lance - BA, MA, PhD
Morgan, Brian - BA, MA, PhD
Nasmith, Louise - AB, AB, MDCM
Nayer, Maria - BSc, MEd
Niyozov, Sarfaroz - MEd, MA, PhD
Procter, Margaret - BA, MA, MPH, PhD
Rehner, Katherine - BA, BE, MEd, PhD
Rossi, Miriam Frances - BSc, MSc, MD, MD, MD
Russell, M Lynn - MDCM
Seller, Wayne - BA, MEd
Simon, Robert - BA, MA, MTH, PhD
Steele, Jeffrey - BA, MA, PhD
Stewart Rose, Leslie - BEd, BM, MA, EdD
Stiegelbauer, Suzanne - BS, MA, MA, PhD
Turnbull, Miles - BA, AM
Warn, Mary Jane - MA, PhD
Woodruff, Earl - MA, PhD
Faculty Affiliation
Dentistry

Degree Programs Offered
Dentistry – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Aging, Palliative and Supportive Care Across the Life Course
   • Dentistry, MSc, PhD
2. Biomedical Toxicology
   • Dentistry, MSc, PhD
3. Cardiovascular Sciences
   • Dentistry, MSc, PhD
4. Biomedical Engineering
   • Dentistry, MSc, PhD
5. Neuroscience
   • Dentistry, MSc, PhD
6. Women’s Health
   • Dentistry, MSc, PhD

Overview
The Faculty of Dentistry offers a graduate program leading to either a Master of Science or Doctor of Philosophy degree. This graduate program appeals to:
1. applicants who have a degree in dentistry and who are pursuing research training and advanced clinical education leading to qualification in one of 10 dental specialty disciplines; and
2. applicants, both dentists and non-dentists, who are pursuing graduate research training without advanced clinical education.
Consequently, both the Master of Science and the Doctor of Philosophy degrees have a common core of coursework and consist of three options, with each having varying additional research and training requirements.

Contact and Address
Web: www.utoronto.ca/dentistry
Email: carolynn.mar@dentistry.utoronto.ca
Telephone: (416) 979-4901 ext. 1-4482
Fax: (416) 979-4944

Degree Programs
Dentistry

Master of Science
1. Thesis Option

Minimum Admission Requirements
• An appropriate Bachelor of Science, Doctor of Dental Surgery, or an equivalent degree, with at least mid-B standing in the final year from a recognized university in a discipline appropriate to the field of dentistry.

Program Requirements
• Ordinarily one year of full-time registration; however, it is the department’s expectation that students will normally remain in full-time attendance on campus to enable full participation in departmental activities for two years.
• Year 1: development of a research project and proposal, and coursework. Coursework will normally include, as a minimum, fulfilment of the requirements for the course DEN 1001Y Master’s Seminars in Oral Health Sciences and successful completion of an additional 1.5 full-course equivalents (FCEs) that includes the course DEN 1015H Introduction to Biostatistics. Exemptions may be granted for previously completed coursework at the bachelor’s level.
• Year 2: research, thesis completion, and defence.

Normal Program Length: 6 sessions full-time; 12 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

2. Specialist Dental Training: Thesis Option
The department offers a Master of Science degree for dental graduates seeking advanced training in a clinical specialty as well as training in research.

Minimum Admission Requirements
• Doctor of Dental Surgery or equivalent degree with at least a mid-B standing in the final year from a recognized university.
Program Requirements

- Two to four years of full-time registration, depending upon the clinical specialty.
- Completion of an original research project culminating in the oral defence of a written thesis.
- Completion of clinical and didactic coursework requirements as necessary to meet Canadian Dental Association accreditation requirements for the chosen clinical specialty that includes successful completion of the courses DEN 1014H Clinical Epidemiology and Evidence-Based Care and DEN 1015H Introduction to Biostatistics.
- Course DEN 1001Y Master’s Seminars in Oral Health Sciences for a minimum of one year.
- Upon completion of all program requirements, students are eligible for the MSc degree and for Specialty, Fellowship, or Board Certification in the chosen dental specialty. For further information, consult the Faculty of Dentistry Calendar or website.

Normal Program Length: Varies by graduate specialty program undertaken and must conform to the accreditation requirements of the Commission on Dental Accreditation of Canada.

Time Limit: 3 years full-time

3. Specialist Dental Training: Coursework-Only Option

The department offers a Master of Science degree for dental graduates seeking advanced training in a clinical specialty in which additional coursework is undertaken as an alternative to a thesis. The MSc with training in Dental Public Health is also offered to dental hygienists. The availability of this option will vary by specialty.

Minimum Admission Requirements

- Doctor of dental surgery, or an equivalent degree, with at least a mid-B standing in the final year from a recognized university. For the MSc with training in Dental Public Health, dental hygiene applicants should have an appropriate undergraduate dental hygiene degree from a recognized university, or an appropriate undergraduate degree from a recognized university and dental hygiene training.

Program Requirements

- Two to four years of full-time registration, depending upon the clinical specialty.
- Completion of all clinical and didactic coursework requirements as necessary to meet Canadian Dental Association accreditation requirements in the chosen dental specialty that includes successful completion of the courses DEN 1014H Clinical Epidemiology and Evidence-Based Care and DEN 1015H Introduction to Biostatistics.
- Course DEN 1001Y Master’s Seminars in Oral Health Sciences for a minimum of one year.
- 1.5 full-course equivalents (FCEs) in clinical, epidemiological, or basic science research methodology appropriate for clinical or public health practice.
- A research practicum (0.5 FCE) and successful completion of an oral examination of the research practicum.
- Upon successful completion of all program requirements, students are eligible for the graduate degree. Students, with the exception of dental hygienists, are eligible for Specialty, Fellowship, or Board Certification in the chosen dental specialty. For further information, consult the Faculty of Dentistry Calendar or website.

Normal Program Length: Varies by graduate specialty program undertaken and must conform to the accreditation requirements of the Commission on Dental Accreditation of Canada.

Time Limit: 3 years full-time

Program Transfer: MSc to PhD

MSc students pursuing either of options 1 or 2, who are demonstrating excellent progress in all facets of their program, may apply to transfer from the MSc to the PhD program. Transfer time varies for students in the specialty training thesis option. The transfer examination will take place up to 18 months—and in exceptional circumstances 24 months—after entry into the MSc program for registrants in the MSc Thesis Option. Regulations governing such transfers are available from the Graduate Department of Dentistry.

Students registered in the specialty training coursework-only option will not be permitted to transfer to the PhD degree, but may apply to the PhD program following completion of the MSc degree.

Doctor of Philosophy

1. Full-Time Research Program

Minimum Admission Requirements

- Students are normally admitted to a four-year PhD program with an appropriate master’s degree, or equivalent, with at least an A standing from a recognized university in a discipline appropriate to the intended field of doctoral study. However, under exceptional circumstances, the department may admit a highly qualified student with an appropriate Bachelor of Science degree in a discipline appropriate to the field of dentistry or a Doctor of Dental Surgery degree with at least an A standing from a recognized university.
Program Requirements
- Students undertake customized programs, approved by an advisory committee and the Graduate Chair of Dentistry, comprising advanced study and original research culminating in the defence of a thesis.
- Minimum course requirements: completion of the course DEN 1100Y® Doctoral Seminars in Oral Health Sciences, plus an additional 2.5 full-course equivalents (FCEs) that includes the course DEN 1015H Introduction to Biostatistics.
- Exemptions may be granted for MSc coursework from closely related disciplines. This includes students transferring from MSc to PhD programs. Programs of study for BSc students will normally include additional coursework requirements.
- Although the minimum residency requirement is one year, it is the department’s expectation that students will normally remain on campus for four years.
- After 12 months and within 24 months of starting a PhD program, students must pass a qualifying oral examination to demonstrate an adequate capacity for oral health sciences research through previous work and will be examined on their thesis proposal and their breadth of knowledge relative to the research project.
- Participate in all graduate research activities of the advisor's research group.
- Present at meetings and publish original research findings in timely fashion.
- Participate as members of departmental and student committees as applicable.
- Consult with the Graduate Chair of Dentistry who will appoint a committee to plan and arrange their coursework and research programs. The committee and the Graduate Chair must approve the entire course of study. The student’s supervisor will chair the committee. The committee will closely monitor the student’s ability to sustain satisfactory performance and will report annually to the Graduate Chair for approval and continuance of candidacy.

Normal Program Length: 4 years sessions full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

2. Full-Time Program Combined with Dental Specialty Training Option
The department offers a Doctor of Philosophy degree for exceptional dental graduates seeking to combine a PhD degree with advanced training in a clinical specialty. Applicants intending to train as clinician/scientists, aspiring to teaching and research careers in the dental field, are considered on an individual basis.

Minimum Admission Requirements
- Doctor of Dental Surgery degree with at least an A standing from a recognized university. Evidence of research experience or research potential is normally required.

Program Requirements
- Completion of an original research project culminating in the oral defence of a thesis.
- Completion of the course DEN 1100Y® Doctoral Seminars in Oral Health Sciences, plus an additional 1.0 full-course equivalent (FCE) pertaining to the research component of the program, together with completion of clinical and didactic coursework requirements as necessary to meet Canadian Dental Association accreditation requirements for the chosen clinical specialty that includes successful completion of the courses DEN 1014H Clinical Epidemiology and Evidence-Based Care and DEN 1015H Introduction to Biostatistics.
- Consult with the Graduate Chair of Dentistry who will appoint a committee to plan and arrange their course and research programs. The committee and the Graduate Chair must approve the entire course of study. The student’s supervisor will chair the committee. The committee will closely monitor the student’s ability to sustain satisfactory performance and will report semi-annually to the Graduate Chair of Dentistry for approval and continuance of candidacy.
- After 12 months and within 24 months of starting the PhD program, students must pass a qualifying oral examination to demonstrate an adequate capacity for oral health sciences research through previous work and will be examined on their thesis proposal and their breadth of knowledge relative to the research project.
- Participate in all graduate research activities of the advisor’s research group.
- Present at meetings and publish original research findings in timely fashion.
- Participate as members of departmental and student committees as applicable.
- The addition of the clinical and didactic courses for a clinical specialty will normally increase the amount of time for the PhD degree by two years, depending upon the particular clinical specialty undertaken. Program completion will be contingent upon completion of all requirements for the research and specialty training components of the program.
- Upon completion, students are eligible for the graduate degree and for Specialty, Fellowship, or Board Certification in one of the dental specialties.

0 Course that may continue over a program. The course is graded when completed.
For further information, please consult the Faculty of Dentistry Calendar or website.

**Normal Program Length:** varies by specialty; up to 6 years full-time

**Time Limit:** 6 years full-time

### 3. Flexible-Time Option

The department offers a flexible-time PhD program for selected students whose career goal is a full-time academic position in a clinical discipline. Students concurrently establish their teaching and academic credentials. The major goal upon program completion is to enable students to compete for university tenure-stream professorial positions in their clinical science discipline.

The program is dedicated to research experience and, therefore, does not involve clinical training other than clinical research methodology. It entails completion of the research and coursework requirements for the PhD degree half time, while teaching in a clinical discipline half time.

**Minimum Admission Requirements**

- School of Graduate Studies and Graduate Department of Dentistry admission requirements for entry to the PhD program.
- A professional degree from a recognized university equivalent to the University of Toronto DDS and a graduate degree equivalent to the University of Toronto MSc. Preference given to:
  - applicants who have completed specialty education equivalent to the standard required for licensure as a specialist by the Royal College of Dental Surgeons of Ontario
  - applicants who hold a university appointment in Canada at an academic standard equivalent to the University of Toronto Lecturer.

**Program Requirements**

- Appropriate research supervision and advisory committee membership, customized plan of study, and timetable for the completion of the degree requirements, as approved by the Graduate Chair of Dentistry, will be in place at program commencement. The Graduate Chair monitors progress by review of completed advisory committee reports based on annual meetings of the student with the supervisory committee.
- Although the minimum residency requirement for the PhD is one year, the anticipated completion date for the flexible-time PhD program will be within five to six years from the registration date.
- Students are required to conduct research leading to completion and defence of a thesis and complete minimum coursework requirements, which include DEN 1100Y\(^0\) *Doctoral Seminars in Oral Health Sciences*, plus an additional 2.5 full-course equivalents (FCEs) that includes the course DEN 1015H *Introduction to Biostatistics*.
- Students must pass a qualifying oral examination 12 to 24 months after commencement to demonstrate an adequate capacity for oral health sciences research at the doctoral level.
- Participate in all graduate research activities of the advisor’s research group.
- Present at meetings and publish original research findings in timely fashion.
- Participate as members of departmental and student committees as applicable.

**Normal Program Length:** 5 years flexible-time

**Time Limit:** 7 years flexible-time

### Course List

Not all courses are offered every year. The department should be consulted each session as to course offerings.

#### Core Courses

- **DEN 1001Y** Master's Seminars in Oral Health Sciences (Credit/No Credit)
- **DEN 1100Y** Doctoral Seminars in Oral Health Sciences (Credit/No Credit)
- **DEN 1015H** Introduction to Biostatistics

#### General Courses

- **DEN 1002H** Oral Pathology
- **DEN 1003H** Preventive Dentistry
- **DEN 1006Y** Seminars in Dental Public Health
- **DEN 1007H** Oral Radiology
- **DEN 1011Y** Advanced Seminars in Oral Pathology
- **DEN 1012Y** Oral Medicine
- **DEN 1013Y** Oral Surgical Pathology
- **DEN 1014H** Clinical Epidemiology and Evidence-Based Care
- **DEN 1016H** Occlusion: Function and Dysfunction
- **DEN 1017H** Temporomandibular Disorders
- **DEN 1022H** Investigating Pathogenic Biofilms
- **DEN 1024H** Experimental Methods in Caries Research
- **DEN 1051Y** Oral Epidemiology
- **DEN 1060H** Oral Physiology: Sensory and Neuromuscular Function
- **DEN 1070H** Advances in Dental Materials Science
- **DEN 1080Y** Biology of Connective Tissues
- **DEN 1081H** Bone Interfacing Implants
- **DEN 1082H** Biomaterials for Implant Treatment in Dentistry
- **DEN 1097Y** Advanced Oral Radiology
- **DEN 1098H** Reading Course in Oral Biology

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\(^0\) Course that may continue over a program. The course is graded when completed.
Degree and Diploma Programs by Graduate Unit

Courses for Students in MSc/PhD
Specialist Dental Training Programs

DEN 1033Y Periodontology: Seminars and Clinics I
DEN 1034Y Periodontology: Seminars and Clinics II
DEN 1035Y Periodontology: Seminars and Clinics III
DEN 1036Y Literature Review in Periodontology
DEN 1037Y Clinical Case Presentations
DEN 1038Y Biomaterials and Implant/Reconstructive Dentistry
DEN 1039Y Principles and Practice of Periodontology
DEN 1041Y Prosthodontics I: Prosthodontic Treatment Planning
DEN 1042Y Prosthodontics II: Patients with Dentition and Advanced Operative Dentistry Care
DEN 1043Y Prosthodontics III: The Partially Edentulous Milieu and its Management by Fixed Removable or Implant Supported Prostheses
DEN 1044Y Prosthodontics IV: The Edentulous Milieu and its Management by Removable or Implant Supported Prostheses
DEN 1045Y Prosthodontics V: Introduction to Critical Appraisal of the Dental Literature and Evidence-Based Practice
DEN 1046Y Clinical Prosthodontics
DEN 1052Y General Anaesthesia for Medical Procedures: Paediatric
DEN 1053Y General Anaesthesia for Medical Procedures: Adult
DEN 1054Y Sedation and General Anaesthesia for Dentistry—Adult
DEN 1055H Basic Principles of Dental Anaesthesia
DEN 1056Y Basic Concepts in Clinical Medicine
DEN 1057Y Dental Anaesthesia Journal Review 1
DEN 1058Y Dental Anaesthesia Journal Review 2
DEN 1059Y Dental Anaesthesia Journal Review 3
DEN 1061H Research Practicum
DEN 1062H Pharmacology of Dental Therapeutics
DEN 1063Y Practicum in Dental Public Health
DEN 1064H Management Principles in Canadian Dental Health Organizations
DEN 1073Y Dental Anaesthesia Graduate Seminars
DEN 1074Y Foundations of Medicine as Applied to Dental Anaesthesia
DEN 1075Y General Anaesthesia for Dentistry—Paediatric
DEN 2001Y Orthodontics 1: Advanced Orthodontic Diagnosis and Treatment Planning
DEN 2002Y Orthodontics 2: Biomechanics Orthodontic Technique and Practice Administration
DEN 2003Y Orthodontics 3: Orthodontic Technique and Clinical Practice
DEN 2004Y Orthodontics 4: Interceptive Orthodontics
DEN 2005Y Surgical Orthodontics
DEN 2006Y Facial Growth and Facial Analysis
DEN 2007Y Craniofacial Anomalies
DEN 2008Y Craniofacial Anatomy and Osteology
DEN 2009H Classic Theories of Craniofacial Growth
DEN 2010H Tissue Reaction to Orthodontic and Orthopedic Forces
DEN 2011Y Craniofacial Morphology and Development
DEN 3001Y Oral and Maxillofacial Surgery 1: The Physiologic Basis of Disease
DEN 3002Y Oral and Maxillofacial Surgery 2: Principles and Practice of Oral and Maxillofacial Surgery
DEN 3003Y Oral and Maxillofacial Surgery 3: Evidence-based Literature Reviews in Oral and Maxillofacial Surgery
DEN 3005H Head and Neck Anatomy
DEN 4001Y Paediatric Dentistry 1: Theoretical Paediatric Dentistry
DEN 4002Y Paediatric Dentistry 2: Journal Review
DEN 4003Y Paediatric Dentistry 3: Facial and Dental Growth and Development in Paediatric Dentistry
DEN 4004H Paediatric Dentistry 4: Child Behaviour Management
DEN 4005Y Paediatric Dentistry 5: Clinical Paediatric Dentistry
DEN 4006Y Paediatric Dentistry 6: Oral and Maxillofacial Surgery as Applied to Paediatric Dentistry
DEN 4007H Paediatric Dentistry 7: Endodontics as Applied to Paediatric Disorders
DEN 4008Y Paediatric Orthodontics
DEN 4009Y Paediatrics
DEN 4010Y Care of Patients with Special Needs and Applied Paediatric Dentistry
DEN 4011Y Conscious Sedation and Anaesthesia in Paediatric Dentistry
DEN 5001Y Graduate Endodontics Case Presentations
DEN 5002Y Graduate Endodontics Topical Literature
DEN 5003Y Graduate Endodontics Current Literature

Graduate Faculty

Full Members

Agur, Anne - BSc, MSc, PhD
Aubin, Jane - BSc, PhD
Barnett Foster, Debora E - BSc, MSc, PhD
Bressmann, Tim - MPH, PhD
Casas, Michael - MSc, DDS
Casper, Robert - MD
Clokie, Cameron - DDS, PhD
Cvitkovitch, Dennis - BSc, MSc, PhD
Davies, John - BDS, BDSc, PhD, DSc
Deporter, Douglas - DipPerio, DDS, PhD
Dostrovsky, Jonathan - BSc, MSc, PhD
El-Mowafy, Omar - BDS, PhD
Finer, Yoav - MSc, MSc, DMD, PhD
Friedman, Shimon - DMD
Glogauer, Michael - PhD
Gong, Siew-Ging - MSCD, BDS, PhD
Grynspan, Marc - MSc, PhD
Haas, Daniel - BS, BSCD, DDS, PhD

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Degree and Diploma Programs by Graduate Unit

Hinz, J. Boris - PhD
Jokstad, Asbjorn - MS, DDS, PhD
Kenny, David - BSc, DDS
Kishen, Anil - BDS, MSc, PhD
Lam, Ernest - BSc, MSc, DMD, PhD
Lawrence, Herenia - MSc, DDS, PhD
Levesque, Celine - BSc, MSc, PhD
Limeback, Hardy - BSc, DDS, PhD
Manolson, Morris - PhD (Interim Director, Postgraduate Studies)
McCulloch, Christopher - BSc, DDS, PhD
Mock, David - DDS, PhD, Fell Ryl Coll Dent Canada
Peel, Sean - BSc, PhD
Santerre, Paul - BSc, MSc, PhD
Seltzer, Ze’ev - DMD, BMedSc
Sessle, Barry - BS, MSc, DDS, PhD
Sherman, Philip - MD
Simmons, Craig - BSc, MSc, PhD
Sone, Eli - BSc, MS, PhD
Tenenbaum, Howard - DDS, PhD (Interim Coordinator of Graduate Studies)

Members Emeriti
Anderson, James - BSc, DDS
Leake, James - DDPH, MSc, DDS
Mayhall, John - BA, MA, DDS, PhD
Pilliar, Robert - BASc, PhD
Ross, Robert Bruce - MSc, DDS, Fell Ryl Coll Dentistry
Talley, Keith - DDS
Watson, Philip - DDS, BDS, MSc, DDS
Woodside, Donald - BSc, DDS, MSc, DDS, Fell Ryl Coll Dent Canada
Zarb, George - BSCD, MS, DDS

Associate Members
Andrews, Paul - BSc, MSc, DDS
Avivi-Arber, Limor - MSc, PhD
Baker, Gerald - DDS, MS, Fell Ryl Coll Dentistry
Barrett, Edward - BSc, MSc, DDS
Barzilay, Issac - MS, DDS
Basrani, Bettina - PhD
Bradley, Grace - MSc, DDS
Carmichael, Robert - BSc, MSc, DDS
Dao, Thuan - MSc, DDS, PhD
Daskalogiannakis, I. John - DIPORH, MSc, DDS
Dempster, Laura - BSCD, MSc, PhD
Diwan, Randa - DDS, PhD
El-Badrawy, Wafa - MSc, DDS
Fenton, Aaron - DipPerio, MS, DDS
Ganss, Bernhard - DrRerNat
Goldberg, Michael - DipPerio, BSc, MSc, DDS
Holmes, Howard - MSc, DDS, DDS
Iakovoune, Alexandre - MSc, ScD
Judd, Peter - BSc, MSc, DDS
Kulkarni, Gajanan - LLB, MSc, DDS, PhD
Lai, Jim Yuan - BSc, DrMedDent, MD, Fell Ryl Coll Dent Canada
Laing Gibbard, Leslie - BSc, BEd, MSc, MS, DDS, PhD
Laporte, Audrey - BA, MA, PhD
Leong, Iona - BSc, MSc, DDS
Main, Patricia - DDPH, MSc, DDS, DDS
McCormick, Dorothy - BDS, MSc, DDS
McCormick, Richard - MSc, DDS

Metaxas, Angelos - DIPORH, MSc, DDS, DDS
Moriarty, Tara - BA, BSc
Nair, Hashim - BDS, MSc, DDS
Pharoah, Michael - BSc, DDS
Quinonez, Carlos R. - MS, DDS
Saltzman, Brett - BA, MSc, DDS
Sigal, Michael - MSc, DDS
Suri, Sanjay - BDS, MDS
Sutherland, Susan - BScN, MSc, DDS
Talwar, Reena - BSc, DDS, PhD
Tam, Laura - BSc, MSc, DDS
Tompson, Bryan - DDS

www.sgs.utoronto.ca/calendar/2011-12

Dentistry 161
Doctor of Medicine/Doctor of Philosophy (Combined Program)

Faculty Affiliation

Medicine

Degree Programs Offered

Medicine – MD/PhD

Overview

The MD/PhD program is offered jointly by the Faculty of Medicine and the School of Graduate Studies. Selected and highly qualified students have the opportunity to combine their medical school experience with intensive scientific training in a chosen field. Students in this program are eligible for financial support.

Students carry out research under the supervision of a faculty member at the University and should consult the appropriate department or institute regarding specific research programs.

Contact and Address

Web: www.utoronto.ca/mdphd
Email: mdphd.program@utoronto.ca
Telephone: (416) 978-8885
Fax: (416) 971-2132

MD/PhD Program
University of Toronto
Medical Sciences Building
Room 7205, 1 King's College Circle
Toronto, Ontario M5S 1A8
Canada

Degree Programs

Medicine

Combined Doctor of Medicine/Doctor of Philosophy

Minimum Admission Requirements

- Applicants must be accepted by the Faculty of Medicine and meet the requirements of the School of Graduate Studies and the department in which they intend to carry out their graduate studies.
- Students with a master's degree and medical students are eligible to apply.

Program Requirements

- Applicants may pursue the dual degrees via an integrated or a sequential route.
- Integrated. Students with a master's or bachelor's degree enter the MD/PhD program and, within a six- to seven-year period, complete the requirements of the first two years of the MD program and all requirements of the PhD program. During this time a predetermined program of integration is pursued which provides time allocation for both medical school and graduate study. On completion of the PhD degree, students return full time to the medical program.
- Sequential. Students with a master's or degree enter the medical program on a full-time basis. After 12-18 months of medical school, they proceed to full-time graduate work until completion of the PhD degree. Students then return to medical school to complete the last 2-3 years.

Normal Program Length: 8 or 9 years full-time
Time Limit: 6 years full-time

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Drama

Faculty Affiliation
Arts and Science

Degree Programs Offered
Drama – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Diaspora and Transnational Studies
   • Drama, MA, PhD
2. Sexual Diversity Studies
   • Drama, MA, PhD
3. Jewish Studies
   • Drama, MA, PhD
4. South Asian Studies
   • Drama, MA
5. Women and Gender Studies
   • Drama, MA, PhD

Overview
The Centre for Study of Drama offers graduate programs leading to the Master of Arts and Doctor of Philosophy degrees. The centre’s own core courses focus on the program fields of Theatre History, Theory of Drama, and Dramaturgy. Within the parameters of these fields, the centre supports research in such areas as performance analysis and reception; Canadian, American, and intercultural theatre; Elizabethan and Restoration staging practices; historiography and performance; acting and modern staging theories and practices; performance aesthetics; and play development. Through affiliations with other graduate units, students may also take courses in drama, theatre and performance from the other departments, centres, and institutes across the Faculty.

Graduate students build on the kind of foundation that would normally be laid in undergraduate study with a concentration in theatre, drama, and performance studies. Performance practice is an integral part of graduate work in the centre and it takes place, for the most part, at the Robert Gill and Studio theatres.

Application details are available on the centre’s website.

Contact and Address
Web: www.graddrama.utoronto.ca
Email: graduate.drama@utoronto.ca (general);
gc.graddrama@utoronto.ca (Coordinator of Graduate Studies)
Telephone: (416) 978-7980
Fax: (416) 971-1378
Centre for Study of Drama
University of Toronto
Koffler Student Services Centre
214 College Street
Toronto, Ontario M5T 2Z9
Canada

Degree Programs

Drama

Master of Arts

Minimum Admission Requirements
• Applicants for admission to the Centre for Study of Drama are considered under the General Regulations. Admissions are selective; possession of minimum qualifications does not guarantee acceptance.
• An appropriate bachelor’s degree from a recognized university with standing equivalent to at least a University of Toronto B+ and with a significant concentration in theatre, drama, performance, and related disciplines.
• Applications received after January 15 may be too late for consideration. Contact the Graduate Coordinator for further information.

Program Requirements
• A minimum of 4.5 full-course equivalents (FCEs), as approved by the Centre for Study of Drama, including both DRA 1003Y Introduction to Theatre, Drama, and Performance Studies and DRA 5000Y Theatre Practice.
• The centre may prescribe certain courses in the individual programs of MA students.
• Normally the program requires one year of full-time study or the part-time equivalent. In some cases, students with insufficient background in the discipline may be admitted to a two-year MA program, with additional course requirements.

Normal Program Length: 3 sessions full-time
Time Limit: 3 years full-time
Degree and Diploma Programs by Graduate Unit

Doctor of Philosophy

Minimum Admission Requirements

- Applicants for admission to the Centre for Study of Drama are considered under the General Regulations. Admissions are selective; possession of minimum qualifications does not guarantee acceptance.
- Applications received after January 15 may be too late for consideration. Contact the Graduate Coordinator for further information.
- Applicants may be accepted into the PhD program via one of two routes:
  - With a master of arts degree: an MA in Drama or the equivalent from a recognized university, with standing equivalent to at least a University of Toronto A-. Applicants who have taken the MA through the Centre for Study of Drama must be recommended for further study by the instructors whose courses they have taken. Applicants holding the MA of this university in a subject other than drama, or its equivalent from another university, will be considered for admission to the PhD program in the light of their previous work and its relation to the centre's requirements; additional coursework may be required.
  - With a bachelor of arts degree: exceptional students may be admitted directly to the PhD program from an appropriate BA from a recognized university with a minimum overall average equivalent to a University of Toronto A-. Students who do not qualify for direct entry into the PhD will be considered for the MA program.
- Applicants must arrange to send two supporting letters of recommendation to the Graduate Coordinator of the centre. Admission will be conditional upon satisfactory recommendation.
- Applications must be accompanied by a statement of research intent and curriculum vitae.

Program Requirements

- Students entering with an MA must:
  - complete 4.0 approved full-course equivalents (FCEs) with an average standing of at least A-. The courses must include DRA 1011H Traditions of Performance Theory, DRA 1012H Twentieth-Century Theatre and Performance, and DRA 6000Y Research Seminar;
  - satisfy the centre's dramaturgical and performance practice requirement by completing DRA 5001Y;
  - demonstrate reading knowledge of a language other than English by passing an approved language examination not later than the end of the second year of study. Students may also be asked to qualify in other program-related languages;
  - pass comprehensive examinations;
  - present a thesis on an approved topic embodying the results of original investigation which shall be judged to constitute a significant contribution to the knowledge of the field;
  - pass an oral examination on the subject of the thesis.

Although the program has been designed for completion in four years, some students may require a longer period to complete all of the requirements.

- Students entering with a BA:
  - must complete 3.5 full-course equivalents (FCEs) in addition to the PhD requirements listed above, including DRA 1003Y for a total of 7.5 FCEs, and satisfy the centre's dramaturgical and performance practice requirements as determined on admission.
  - must maintain an A- average in their first 3.5 FCEs in order to continue in the program.
  - may, with approval, elect to transfer to the MA after the first year of study. Work completed in the PhD program will be credited towards the MA.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List

Not all courses listed will be offered every year. Registrants are advised to confirm course offerings by consulting the centre’s website, updated periodically through mid-summer, and by communicating with the Graduate Coordinator.

Core Program

DRA 1001H History of the Theatre I
DRA 1002H History of the Theatre II
DRA 1003Y Introduction to Theatre, Drama, and Performance Studies
DRA 1011H Traditions of Performance Theory
DRA 1012H Twentieth-Century Theatre and Performance
DRA 1021H Dramaturgy
DRA 1032H “Liveness”: Performance, Mediation, and Virtuality
DDRA 1099H Dramaturgy of Sound in Drama, Film, Performance Art, and Music
DRA 1105H Performing History
DRA 2011H Theatrical Performance and Reception
DRA 3019H Shakespeare in Modern Production
DRA 3021H Elizabethan Performance: History and Practice
DRA 3120H The Way of the Actress
DRA 3211H Performing the Body
Cross-Listed Courses
The Graduate Centre for Study of Drama also cross-lists courses in drama, theatre, and performance offered by other graduate units of the University of Toronto.

A listing of courses, available during the academic year, appears on the centre’s website, which is updated in mid-summer. Students requesting courses from other units may be subjected to quotas and/or wait lists. Language and literature departments do not always provide courses in English translation. Confirm all course information—including date, time, location—with the appropriate unit as well as with the centre’s Graduate Coordinator.

Graduate Faculty

Full Members
Ackerman, Alan - MA, PhD
Ambros, Veronika - MA, PhD
Astington, John - BA, MA, PhD
Bancheri, Salvatore - BA, MA, PhD
Barton, Bruce - BA, MA, PhD (Coordinator of Graduate Studies)
Brown, Elspeth - MA, PhD
Budde, Antje - PhD
Clarke, George Elliott - PhD
Cobb, Michael - BA, MA, AM, PhD
Columpar, Corinn - BA, PhD
Copeland, Nancy - BA, MA, PhD
Corman, Brian - AB, AM, PhD
De Kerckhove, Derrick - BA, MA, PhD
Eisenbichler, Konrad - BA, MA, PhD
Gallagher, Kathleen Marie - PhD
Johnson, Stephen - BA, MA, PhD
Justice, Daniel - BA, MA, PhD
Kanaganayakarn, Chevakanayakarn (Chelva) - PhD
Keil, Charles - BA, MA, PhD
Kingwell, Mark - AB, BA, AM, MPH, PhD
Klausner, David - AB, PhD
Kleber, Pia - BA, MA, PhD
Lancashire, Anne - BA, AM, PhD
Lancashire, D lan - BA, MA, PhD
Lettieri, Michael - BA, MA, PhD
Levenson, Jill - PhD
Lopez, Jeremy - BA, MA, DPhil
MacLean, Sarah - BA, MA, PhD
Michelucci, Pascal - BA, MA, PhD

Most, Andrea - BA, MA, PhD
Parker, Mary Ann - BA, MM, PhD, Assoc Royal Conserv Tor
Pietropaolo, Domenico - BSc, MA, PhD
Quayson, Ato - BA, PhD (Director)
Revermann, Martin - PhD
Ross, Jill - MA, PhD
Rupp, Stephen - BA, MA, MPH, MA, PhD
Sammond, Nicholas - BA, MA, PhD
Soldovieri, Stefan - AB, AM, DPhil
Somigli, Luca - PhD
Sperdakos, Paula - BA, MA, PhD
Ten Kortenaar, Neil - PhD
Thomson, H. Leslie - BA, MA, PhD
Trojanowska, Tamara - MA, PhD

Members Emeriti
Armatage, Kay - BA, MA, PhD
Hutcheon, Linda - BA, MA, PhD
Plant, Richard - PhD
Schonberg, Michal - BA, MA, PhD
Sidnell, Michael - BA, MA, PhD

Associate Members
Filewod, Alan - PhD
Freeman, Barry - BA, MA, PhD
Freeman, Sarah Jane - PhD, PhD
Hill, Colin - BA, MA, PhD
Houston, Andrew - DPhil
King, Robert - AB, MA, PhD
Knowles, Richard - DPhil
Odom, Selma - PhD
Pietropaolo, Damiano - AM
Rankin, Katharine - BA, MA, PhD
Ruti, Marjut - BA, MA, PhD
Schotzko, T. Nikki - PhD
Syme, Holger Schott - BA, AM, PhD
Testa, Bart - BA, MA
Warner, Mary Jane - MA, PhD

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East Asian Studies

Faculty Affiliation
Arts and Science

Degree Programs Offered
East Asian Studies – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Asia-Pacific Studies
   • East Asian Studies, MA
2. Book History and Print Culture
   • East Asian Studies, MA, PhD
3. Sexual Diversity Studies
   • East Asian Studies, MA, PhD
4. South Asian Studies
   • East Asian Studies, MA, PhD

Overview
The Department of East Asian Studies offers programs in two fields: Classical East Asian and Modern East Asian.

Contact and Address
Web: www.eas.utoronto.ca
Email: celia.sevilla@utoronto.ca
Telephone: (416) 978-7260
Fax: (416) 978-5711
Department of East Asian Studies
University of Toronto
Robarts Library
14-087, 130 St. George Street
Toronto, Ontario M5S 3H1
Canada

Degree Programs
East Asian Studies

Master of Arts

Minimum Admission Requirements
• Accepted under the General Regulations of the School of Graduate Studies and the regulations of the department.
• Successful completion of an appropriate bachelor’s degree from a recognized university with a major in East Asian Studies and at least B+ standing in the final year. Applicants without a major in East Asian Studies may also be considered, provided they demonstrate sufficient scholarly interest and academic preparation in East Asian Studies.
• Statement of approximately 500 words (two pages) setting out the student’s main fields of interest and proposed course of study.
• Two letters of recommendation from scholars who have knowledge of previous academic work.
• Programs are based on the study of original texts. This presupposes a knowledge of the relevant languages.
• A sample of the applicant’s writing in English.
• Non-native speakers of English are required to take the TOEFL (Test of English as a Foreign Language). Applicants taking the paper-based TOEFL exam must achieve a minimum score of 600 and 5 on the TWE. Applicants taking the Internet-based TOEFL exam must achieve a minimum score of 100/120 and 22/30 on the writing and speaking sections. Comparable scores on similar tests are also acceptable.
• Application deadline is January 31 for admission the following September.

Program Requirements
• The program may be completed either through non-language courses or through a combination of non-language courses and a thesis written with the guidance of a supervisor; normally 4.0 full-course equivalents (FCEs), including at least 2.0 FCEs in EAS courses, are required for students not writing a thesis, and 2.0 FCEs, including at least 1.0 FCE in EAS courses, are required for students writing a thesis.
• Students are permitted to take some of their courses in other departments.
• Courses are selected in consultation with the Coordinator of Graduate Studies.

Normal Program Length: 3 sessions (1 year) full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements
• Accepted under the General Regulations of the School of Graduate Studies and the regulations of the department.
• Normally, completion of the MA program in the Department of East Asian Studies, or its equivalent from a recognized university, with an average grade of at least A-. Departmental assessment may also permit registration directly from a BA degree in the most exceptional cases where, for instance,
there is a very high grade-point average or a well-documented demonstration of capacity for original research.

- Statement of approximately 500 words (two pages) setting out the student’s main fields of interest and proposed course of study.
- Three letters of recommendation from scholars who have knowledge of previous academic work.
- Programs are based on the study of original texts. This presupposes knowledge of the relevant languages.
- A sample of the applicant’s writing in English.
- Non-native speakers of English are required to take the TOEFL (Test of English as a Foreign Language). Applicants taking the paper-based TOEFL exam must achieve a minimum score of 600 and 5 on the TWE. Applicants taking the Internet-based TOEFL exam must achieve a minimum score of 100/120 and 22/30 on the writing and speaking sections. Comparable scores on similar tests are also acceptable.
- Application deadline is January 31 for admission the following September.

Program Requirements

- 4.0 non-language full-course equivalents (FCEs), including at least 2.0 FCEs in EAS courses, to be selected in consultation with the Coordinator of Graduate Studies. 2.0 FCEs must be completed in the first year of the program, with an average grade of at least A-. The remaining courses must be completed by the end of the second year of the program, maintaining an average of at least A-.
- Students are permitted to take some of their courses in other departments.
- A comprehensive qualifying examination is normally undertaken, with the guidance of a supervisory committee, within three months of completion of coursework and must be taken by November 30 of the third year of study.
- An appropriate level of proficiency in at least one language (other than English) relevant to the student’s areas of study must be demonstrated by November 30 of the third year of study; the language(s), level of proficiency, and method of evaluation are to be determined by the Coordinator of Graduate Studies, in consultation with the student’s supervisor.
- After completing the comprehensive examination, students are required to produce a doctoral dissertation with the guidance of a supervisory committee. This process begins with the production of a dissertation prospectus to be approved by the committee. The completed dissertation must be defended at a doctoral final oral examination.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List

The following courses may be offered by the department. Not all courses are offered every year. Please consult the department’s website for a current course listing.

Cultural Studies

EAS 1118H Translation and Modernity
EAS 1155H Book Culture in Pre-modern East Asia
EAS 1339H Topics in Chinese Art Theories
EAS 1424H Multitude, Labour Power, Population
EAS 1432H Korean Cultural Studies Seminar
EAS 2020H Beyond Orientalism
EAS 2323H Rethinking Chinese Cultural History
COL 3380H Globalization and Culture
COL 5040H Marx, Deleuze and Empire
JLA 5097H Ecocriticism

History

EAS 1130H Rethinking China’s Cultural Revolution: History, Politics and Theory
EAS 1140Y From Republic to People’s Republic: The Chinese Revolution from 1895 to the Present
EAS 1297H Texts, Images, and Objects in East Asia
EAS 1411H Art and Archaeology of Early China
EAS 1412H Special Topics in Archaeology of Ancient China
EAS 1143Y Civilization in Medieval China
EAS 1173H,Y Modern Korean History Seminar
EAS 1174H,Y Rethinking Empire in East Asia
EAS 1425H Critique of Everyday Life and Capitalism
EAS 1427H On Contingency and Capitalism
EAS 1428Y Foucault & Marx
EAS 1429H Topics in Marxism and Japan
EAS 1430H Introduction to the Countryside
EAS 1675Y Topics in Chinese Social and Intellectual History 1500–1950
EAS 2008H Japan’s Imperial System

Language

EAS 1101Y Introduction to Classical Chinese
EAS 1115Y Reading Japanese for Graduate Purposes (Credit/No Credit)
EAS 1301Y Modern Standard Japanese I (Credit/No Credit)
EAS 1302Y Modern Standard Japanese II (Credit/No Credit)
EAS 1303Y Modern Standard Japanese III (Credit/No Credit)
EAS 1304H Modern Standard Japanese IVa (Credit/No Credit)
Degree and Diploma Programs by Graduate Unit

EAS 1305H Modern Standard Japanese IVb (Credit/No Credit)
EAS 1321H Japanese I for Students with Prior Background (Credit/No Credit)
EAS 1621Y Modern Standard Korean I (Credit/No Credit)
EAS 1622Y Modern Standard Korean II (Credit/No Credit)
EAS 1623Y Modern Standard Korean III (Credit/No Credit)
EAS 1624Y Modern Standard Korean IV (Credit/No Credit)
EAS 1801Y Modern Standard Chinese I (Credit/No Credit)
EAS 1802Y Modern Standard Chinese II (Credit/No Credit)
EAS 1803Y Modern Standard Chinese III (Credit/No Credit)
EAS 1804Y Modern Standard Chinese IV (Credit/No Credit)
EAS 1801Y Introduction to Classical Japanese
EAS 1802Y Intermediate Classical Chinese

Literature
EAS 1137H,Y Chinese Poetics
EAS 1151H Chinese Poetry I
EAS 1152H Chinese Poetry II
EAS 1344Y Classical Japanese Poetry
EAS 1345H Readings in Japanese Literary Criticism
EAS 1408H Identity and Diaspora in Modern Taiwanese Literature
EAS 1444H The City, Body, and Text in Modern Japanese Literature
JLA 1456H Japan As Seen By ?: Reference, Apparatus, Operation
JLA 5082H The Rhetoric of Photography

Philosophy and Religion
EAS 1228H Topics in Chinese Ethical Theories
EAS 1226H Topics in Modern Chinese Philosophy
EAS 1227H Topics in Chinese Religions
EAS 1229H Topics in Chinese Aesthetics
EAS 1438H New Approaches to Classical Daoism
EAS 1601Y Seminar in East Asian Buddhism
EAS 1602Y Topics in Korean Thought
PHL 2015H Confucianism
PHL 2016H Taoism: Philosophy and Religion
PHL 2017H Buddhism in China
RLG 3423H Religion in the Japanese Tradition

Politics
POL 2416Y Politics and Society in Contemporary China

Sanskrit and Hindi
EAS 1379H The History, Structure, and Politics of the Hindi Language
EAS 1500Y The Structure of the Classical Sanskrit Language
EAS 1502H Sanskrit Narrative Literature
EAS 1503H Sanskrit Epic Literature
EAS 1505H Buddhist Narrative Literature in Buddhist Hybrid Sanskrit
EAS 1506H Aspects of Classical and Medieval Indian Culture through Sanskrit Texts
EAS 2007H Advanced Sanskrit Texts I
EAS 2006Y Advanced Sanskrit Texts II
EAS 1488Y Hinduism and Politics

Research Seminars
EAS 1100H,Y Special Topics in Chinese Studies
EAS 1116H,Y Special Topics in Chinese Culture
EAS 1150H,Y Reading and Major Research Paper
EAS 1160H,Y Basic Topics in Chinese Culture
EAS 1163H,Y Special Topics in Korean Studies
EAS 1300H,Y Special Topics in Japanese Studies
EAS 1313Y Japanese Source Materials and Reference Works
EAS 1320Y Special Topics in Japanese Culture
EAS 1323Y Readings in Japanese Documentary Source Materials
EAS 1999Y East Asian Studies Bibliography, Reference, and Research Methodology

Graduate Faculty

Full Members
Ahn, Juhn - BA, MA, PhD
Cazdyn, Eric - BA, MA, PhD
Chin, Carol - BA, MA, PhD
Crawford, Gary - BSc, MA, PhD
Hsiung, Ping-Chun - PhD
Kawashima, Ken - BA, MA, PhD
Keirstead, Thomas - BA, MA, PhD
Lam, Tong - BSc, MA, PhD
Liu, Johanna Ch’ien-mei - BA, MA, MPH, PhD
Luong, Hy Van - BA, PhD
Meng, Yue - BA, MA, MA, PhD
Poole, Janet - BA, AM, MPH, MA, PhD
Purtle, Jennifer - BA, MPH, MA, PhD
Sakaki, Atsuko - PhD
Sandahl, Stella - MA, MA, PhD
Sanders, Graham - BA, PhD (Acting Chair and Graduate Chair)
Schmid, Andre - BA, BA, MA, PhD
Shen, Vincent Tsing-song - PhD
Tran, Nhunghung - MA, PhD

Members Emeriti
Amtzen, Sonja - BA, MA, PhD
Dolezelova, Milena - MA, PhD
Donnelly, Michael - BSc, MA, PhD
Falkenheim, Victor - AB, MA, PhD
Guisso, Richard W L - DPhil
Hoff, Frank - BA, MA, PhD
Liman, Anthony - MA
Lynn, Richard - BA, MA, PhD
Nakajima, Kazuko - BA, MA, MPH
Schlepp, Wayne - BSc, BA, PhD
Tsukimura, Reiko - BA, MA, PhD
Waterhouse, David - BA, LRAM, MA, MA

**Associate Members**

Feng, Linda Rui - BA, MA, MPH, DPhil
Ko, Kyoungrok - BA, MA, MSc
Peng, Ito - BSW, BSc, MA, PhD
Rupprecht, Hsiao-Wei - BA, MA, MLS, PhD
Virag, Curie - AB, MA, PhD
Wong, Joseph - BA, MA, PhD, Canada Research Chair
Wu, Yiching - BA, MA, MA, PhD
Ecology and Evolutionary Biology

Faculty Affiliation
Arts and Science

Degree Programs Offered
Ecology and Evolutionary Biology – MSc, PhD

Programs Closed to Admission
Plant and Microbial Biology – MSc, PhD
Zoology – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Biomedical Toxicology
   • Ecology and Evolutionary Biology, MSc, PhD
2. Environmental Studies
   • Ecology and Evolutionary Biology, MSc, PhD
3. Genome Biology and Bioinformatics
   • Ecology and Evolutionary Biology, PhD

Overview
The disciplines of Ecology and Evolutionary Biology involve complementary perspectives on biological systems. Individual and collaborative research within the department covers the range of both disciplines and often involves study and synthesis across multiple levels of organization. Professors’ research interests include anatomy/physiology, behaviour, behaviour genetics, bioinformatics, community/population/ecosystem/landscape/evolutionary ecology, conservation biology, developmental biology, genetics/genomics, microbiology, molecular evolution, plant biology, taxonomy/systematics and theoretical biology. Professors who supervise graduate students are located on all three campuses of the University (St. George, Mississauga, Scarborough) as well as at the Royal Ontario Museum.

Contact and Address
Web: www.eeb.utoronto.ca
Email: grad@eeb.utoronto.ca
Telephone: (416) 978-7172
Fax: (416) 978-5878
Department of Ecology and Evolutionary Biology
University of Toronto
Earth Sciences Centre
Room 3046, 25 Willcocks Street
Toronto, Ontario M5S 3B2
Canada

Degree Programs

Ecology and Evolutionary Biology

Master of Science

Minimum Admission Requirements
Applicants are accepted under the General Regulations of the School of Graduate Studies.
An appropriate bachelor’s degree from a recognized university, with an average grade equivalent to a University of Toronto B+ or better in the last year of the bachelor’s degree and a minimum B average in the previous year.
Students will not be admitted until they have made arrangements to secure a research supervisor by contacting professors in the department.

Program Requirements
Students must complete a 0.5 graduate full-course equivalent (FCE) chosen from courses offered. The Faculty Research Course is recommended; however, other courses are also acceptable on the advice of supervisory faculty.
A thesis is completed under the direction of the student’s supervisor, assisted by an advisory committee, and defended at a departmental oral examination.

Normal Program Length: 4 sessions (16 months) full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements
Applicants are accepted under the General Regulations of the School of Graduate Studies.
Students will not be admitted until they have made arrangements to secure a research supervisor by contacting professors in the department.

There are three routes of entry to the PhD program:
- Applicants already holding an MSc degree or its equivalent from a recognized university with a grade average equivalent to at least a University of Toronto A- during the MSc and an average of at least B+ in the last year of the bachelor’s program may be accepted.
- Applicants may be accepted first into the MSc program from a bachelor’s program and, conditional upon evidence of research excellence as judged by the thesis supervisory committee, may transfer into the PhD program.
Exceptional applicants may be accepted for direct entry into the PhD with a BSc degree or equivalent, an average grade equivalent to a University of Toronto A- or better in courses in ecology and evolutionary biology, and evidence of research potential.

Program Requirements
- Exceptional students admitted to the PhD program without an MSc degree will be required to complete coursework equivalent to the master's program in addition to the PhD course requirements.
- Students must complete 1.5 graduate FCEs chosen from courses offered (2.0 graduate FCEs for students entering without an MSc degree). Students transferring into the PhD program from the MSc may apply 0.5 graduate FCE towards the PhD course requirement.
- All students are examined 18 to 20 months into the program on both their mastery of concepts in ecology and evolutionary biology and a submitted research proposal.
- Students must deliver two public seminars in the department based on their thesis research.
- Students must submit a thesis and defend it at a doctoral final oral examination conducted by the School of Graduate Studies.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List
Not all courses are offered every year. Please refer to the Ecology and Evolutionary Biology website for a current list of course offerings.

Courses Offered at the Graduate Level Only
- EEB 1002H Advanced Research and Reading Course (This course may be taken only once for credit, and is only available to students who were admitted to the old Zoology, Plant and Microbial Biology, or Botany programs)
- EEB 1100H Faculty Research Course
- EEB 1210H Advanced Statistics
- EEB 1230H Multivariate Statistics
- EEB 1250H Spatial Statistics
- EEB 1310H Philosophy and Methods
- EEB 1320H Ecology
- EEB 1350H Evolution
- EEB 1360H Behaviour
- EEB 1420H Special Topics in Ecology
- EEB 1440H Special Topics in Evolution
- EEB 1470H Special Topics in Integrative Biology

Graduate Courses with Significant Undergraduate Content
These courses will normally constitute only a minor component of the required credits
- EEB 1004H Vertebrate Paleontology
- EEB 1328H Physiological Ecology
- EEB 1330H Systematic Botany
- EEB 1337H Families of Vascular Plants
- EEB 1340H Comparative Plant Morphology
- EEB 1341H Plant Anatomy
- EEB 1443H Phylogenetic Principles
- EEB 1459H Population Genetics
- EEB 1460H Molecular Evolution

Graduate Faculty
Full Members
- Abrams, Peter - BSc, PhD
- Agrawal, Aneil - BSc, PhD
- Andrade, Maydianne - BSc, MS, PhD
- Arhonditsis, Georgios - BSc, MSc, DSCA
- Baker, Allan - MSc, PhD
- Baker, Robert - BSc, MSc, PhD
- Barrett, Spencer - BSc, PhD, Canada Research Chair
- Boonstra, Rudy - BSc, PhD
- Buck, Leslie - BSc, PhD
- Cadotte, Marc W. - BS, MS, PhD
- Campbell, Malcolm - DPhil
- Carleton, Terence - BSc, MSc, PhD
- Caron, Jean-Bernard - MSc, PhD
- Caspersen, John - BA, PhD
- Chang, Belinda - AB, PhD
- Collins, Nicholas - BA, PhD (Associate Chair, Graduate Studies)
- Currie, Douglas - BSc, PhD
- Cutter, Asher - PhD
- Cyr, Helene - BSc, MSc, PhD
- Darling, D. Christopher - MSc, PhD
- Dickinson, Timothy - BSc, MSc, PhD
- Eckenwalder, James - BA, PhD
- Engstrom, Mark - BSc, MSc, PhD
- Evans, David - BSc, PhD
- Fortin, Marie-Josee - MSc, PhD
- Frederickson, Megan - AB, PhD
- Fulthorpe, Roberta - BSc, MSc, PhD
- Gibo, David - BA, PhD
- Gilbert, Benjamin - BSc, MSc, PhD
- Gross, Mart - BSc, PhD
- Gutman, David - BS, PhD
- Gwynne, Darryl - BSc, PhD
- Irwin, David - BSc, PhD
- Jackson, Donald - BSc, MSc, PhD
- Johnson, Marc - BSc, PhD
- Kohn, Linda - BS, PhD
- Kotanen, Peter - BSc, MSc, PhD
- Kronzucker, Herbert - PhD
- Levine, Joel - BA, PhD
- Lopez-Fernandez, Hernan - BS, PhD
- Lovejoy, Nathan Richard - BSc, MS, PhD
- Mason, Andrew - MS, PhD
Degree and Diploma Programs by Graduate Unit

McLennan, Deborah - BSc, PhD
Moncalvo, Jean-Marc - PhD
Murphy, Robert - BSc, MA, PhD
Reisz, Robert - BSc, MSc, PhD
Rodd, F. Helen - MSc, PhD
Rowe, Locke - BSc, MS, PhD (Chair and Graduate Chair, Jan.–June 2012)
Sage, Rowan - PhD (Acting Chair and Graduate Chair, July–Dec. 2011)
Sage, Tammy - BA, MS, PhD
Short, Steven - BSc, PhD
Smith, Sandy - BAgriSc, MSc, PhD
Sokolowski, Maria - BSc, PhD
Stefanovic, Sasa - MSc, PhD
Stinchcombe, John - BA, PhD
Thomson, Sean - BA, PhD
Thomson, James - MS, PhD
Wagner, Helene - MSc, MSc, PhD
Weir, Jason Tyler - AB, PhD
Weis, Arthur - BPhil, PhD
Welch Jr., Kenneth Collins - BS, MA, PhD
Williams, D Dudley - DipEd, BSc, MSc, PhD, DSc
Winterbottom, Richard - PhD

Members Emeriti
Brooks, Daniel - BS, MS, PhD
Dengler, Nancy - BA, MS, PhD
Harvey, Harold - MSc, PhD
Morris, Glenn - BSA, MS, PhD
Mrosovsky, Nicholas - BA, PhD
Rising, James - BA, PhD
Sprules, W Gary - BSc, MA, PhD
Zimmerman, Ann - BA, PhD

Associate Members
Dunlop, Erin - BSc, PhD
Johnson, Timothy - BSc, MSc, PhD
Lester, Nigel Paul - BA, MSc, PhD
Mandrak, Nicholas - BSc, MSc, PhD
Minns, Charles - BSc, PhD
Moses, Alan - BA, PhD
Ridgway, Mark - MSc, PhD
Shuter, Brian - BSc, MSc, PhD
Somers, Keith - MSc, PhD
Walsh, Denis - BA, MPH, PhD
Faculty Affiliation
Arts and Science

Degree Programs Offered
Economics – MA, PhD, MA/JD, PhD/JD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Asia-Pacific Studies
   • Economics, MA
2. Dynamics of Global Change
   • Economics, PhD
3. Environmental Studies
   • Economics, MA
4. Management and Economics
   • Economics, PhD

Overview
The Department of Economics offers degree programs leading to the Master of Arts, Combined Juris Doctor/Master of Arts, and Doctor of Philosophy. Graduate program details appear on the department's website. For information on the program in Financial Economics, consult the separate entry in the Joint Programs section of this calendar.

Contact and Address
Web: www.economics.utoronto.ca
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Telephone: (416) 978-4544
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Department of Economics
Max Gluskin House
University of Toronto
150 St. George Street
Toronto, Ontario M5S 3G7
Canada

Degree Programs

Economics

Master of Arts

Minimum Admission Requirements
• An appropriate bachelor’s degree with at least a mid-B (75%) standing in the final year of the program.
• Successful completion of full-year courses in calculus, intermediate microeconomics, intermediate macroeconomics, and statistics.
• Admission is competitive, so accepted applicants will normally have achieved a standing considerably higher than the minimum of at least a mid-B (75%) in the final year.
• All applicants who do not hold a degree from a Canadian university must submit an official Graduate Record Examination (GRE) General Test score. Applicants who hold a degree from a Canadian university are strongly encouraged to submit an official GRE General Test score. See www.economics.utoronto.ca/index.php/index/graduate/gre for details.

Program Requirements
• For the MA regular stream, successful completion of the mathematics and statistics course (ECO 1010H) and 4.0 full-course equivalents (FCEs) including the core courses micro (ECO 2060H), macro (ECO 2061H), and econometrics (ECO 2408H).
• For the MA doctoral stream, successful completion of the mathematics and statistics course (ECO 1011H) and 4.0 FCEs, including the core courses micro, macro, and econometrics. Of the three core courses, one sequence must be taken at the PhD level. The corresponding courses at the PhD level are ECO 2020H and ECO 2030H (micro), ECO 2021H and ECO 2031H (macro), and ECO 2400H and ECO 2401H (econometrics), along with the respective associated tutorial (ECO 2050H, ECO 2051H, or ECO 2410H).

Normal Program Length: 2 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements
• Minimum B+ standing in an MA program in economics. Admission is competitive, so accepted
applicants will normally have achieved a standing considerably higher than the minimum B+.

- A strong preparation in advanced mathematics, statistics, and economics, including successful completion of MA-level microeconomic theory, macroeconomic theory, and econometrics.
- All applicants who do not hold a degree from a Canadian university must submit an official Graduate Record Examination (GRE) General Test score. Applicants who hold a degree from a Canadian university are strongly encouraged to submit an official GRE General Test score. See www.economics.utoronto.ca/index.php/index/graduate/gre for details.

Program Requirements

- The PhD is a full-time program. Applicants must be registered as full-time students for a minimum period of three years.
- Students must maintain a minimum average of B+ throughout their coursework.
- Year 1: normally two half courses in microeconomics (ECO 2020H and ECO 2030H), macroeconomics (ECO 2021H and ECO 2031H), and econometrics (ECO 2400H and ECO 2401H).
- Year 2: students choose six half courses, including the required courses for a major field and a minor field.
- Second-year and third-year students must also participate in the full-year graduate research seminar (ECO 4060Y).
- Suitable PhD-level courses taken by a student in the MA program in the Department of Economics may fulfill some of the course requirements of the PhD program.
- Successful completion of comprehensive examinations in micro, macro, and the major field by the end of the second year of study.
- An original paper must be written in the second year and presented in the relevant workshop in the fall of the third year.
- By the spring of the third year, students must submit a proposal to a formal dissertation committee.
- A thesis based on original research.

Normal Program Length: 4 years full-time
Time Limit: 6 years full-time

Minimum Admission Requirements

- Applicants must gain independent admission to the JD program and the MA program in Economics before they may be considered for admission to the Combined MA/JD program.

Program Requirements

- Successful completion of the mathematics and statistics course (ECO 1010H).
- Six half courses in economics including the core courses, and 45 credits in law to satisfy the requirements as established for each degree program.

Time Limit: 4 years full-time

Combined Doctor of Philosophy/Juris Doctor

The Combined PhD/JD program is designed to attract highly qualified students who can benefit from the interaction between law and economics. This program allows students to complete the requirements of the JD degree and to reach all but the dissertation stage of the PhD at the end of four years.

Minimum Admission Requirements

- Applicants must gain independent admission to the JD program and the PhD program in Economics before they may be considered for admission to the Combined PhD/JD program.

Program Requirements

- Year 1: students are admitted to the Faculty of Law and receive a deferred acceptance to the PhD program.
- Years 2 and 3: students are registered in the Department of Economics and complete the requirements of the first two years of the PhD program.
- Year 4: students complete their JD requirements and thereafter are registered full-time in the PhD program in the Department of Economics.
- A thesis based on original research.

Time Limit: 6 years full-time; 7 years direct-entry

Course List

Not all courses are offered every year. Please refer to the department’s website for a current list.

Preliminary Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 1010H</td>
<td>Mathematics and Statistics for MA Regular Stream Students (Credit/No Credit)</td>
</tr>
<tr>
<td>ECO 1011H</td>
<td>Mathematics and Statistics for MA Doctoral Stream and PhD Students (Credit/No Credit)</td>
</tr>
</tbody>
</table>
Core Courses in Economic Theory
ECO 2020H Microeconomic Theory I
ECO 2021H Macroeconomic Theory I
ECO 2030H Microeconomic Theory II
ECO 2031H Macroeconomic Theory II
ECO 2050H Applied Microeconomics
ECO 2051H Applied Macroeconomics
ECO 2060H Economic Theory—Micro (for MA students only)
ECO 2061H Economic Theory—Macro (for MA students only)

Advanced Microeconomic Theory
ECO 2100H Advanced Microeconomic Theory I
ECO 2101H Advanced Microeconomic Theory II
ECO 2102H Topics in Microeconomic Theory

History of Economic Thought
ECO 2004H The History of Economic Thought
ECO 2006H Topics in the History of Economic Thought

Econometrics
ECO 2400H Econometrics I
ECO 2401H Econometrics II
ECO 2402H Advanced Econometrics
ECO 2403H Topics in Econometrics
ECO 2404H Empirical Applications of Economic Theory
ECO 2405H Econometrics (for MA students only)
ECO 2410H Applied Econometrics
ECO 2411H Financial Econometrics

Macroeconomics and Monetary Economics
ECO 2103H Topics in Macroeconomic Theory
ECO 2104H Quantitative Macroeconomics
ECO 2500H Monetary Theory I
ECO 2501H Monetary Theory II
ECO 2502H Advanced Monetary Theory
ECO 2503H Financial Economics I
ECO 2504H Financial Economics II
ECO 2505H Macroeconometric Models for Policy Analysis and Forecasting
ECO 2506H Economics of Risk Management (Prerequisite: ECO 358H [70%]/ECO 460H [70%]; Exclusion: ACT 349H, MGT 331Y, MGT 337Y, MGT 438H, RSM 332H, RSM 333H, RSM 439H)
ECO 2507H International Financial Markets
ECO 2508H Risk Management for Financial Managers

Public Economics
ECO 2600H Public Economics I
ECO 2601H Public Economics II
ECO 2606H Topics in Public Economics
ECO 2610H Health Economics
ECO 2611H Empirical Welfare Analysis

Economic Development
ECO 2700H Economic Development
ECO 2701H Development Economics I
ECO 2703H Development Economics II
ECO 2704H Topics in Growth and Development
ECO 2738H Economic Development of China
JPE 2408Y The Political Economy of Development

Labour Economics
ECO 2800H Labour Economics I
ECO 2801H Labour Economics II
ECO 2802H Economics Inside Organizations
ECO 2803H Methods for Empirical Microeconomics

Industrial Organization
ECO 2900H Industrial Organization I
ECO 2901H Industrial Organization II

Economics 175

Law and Economics
ECO 3501H Economic Analysis of Law
ECO 3504H International Trade Regulation (also LAW 285)

Other Courses
ECO 2908H Environmental and Resource Economics
ECO 3202H Urban and Regional Economics
ECO 3300H Political Economy
ECO 3500H Economics of Organizations and Contracts
ECO 4050H Reading Course in an approved special field
ECO 4051H Reading Course in an approved special field
ECO 4060Y Graduate Research Seminar (Credit/No Credit)

Graduate Faculty

Full Members
Aguirregabiria, Victor - BA, MSc, PhD
Alvazian, Varouj - BS, MA, PhD
Degree and Diploma Programs by Graduate Unit

Alexopoulos, Michelle - BSc, MA, PhD
Anderson, Gordon - BA, MSc, PhD
Baker, Michael - BComm, MA, PhD
Benjamin, Dwayne - BSc, MA, PhD
Brandt, Loren - BS, MS, PhD
Carr, Jack - BCom, MA, PhD
Damiano, Ettore Vincenzo - AB, MA, MPH, PhD
Dewees, Donald - LLB, BScEE, PhD
Duarte, Margarida - MEC, PhD
Duranton, Gilles - BSc, MSc, MA, PhD
Faig, Miquel - MEC, PhD
Gourieroux, Christian - PhD
Gunderson, Morley - BA, MA, PhD
Hamilton, Gillian - MEC, PhD
Horstmann, Ignatius - PhD
Hosios, Arthur - BEng, MEng, MA, PhD (Chair and Graduate Chair)
Howson, Susan - BA, MSc, MA, PhD
Kambouroglou, Gueorgui - BA, MA, DPhil
Kuruscu, Burhanettin - BSc, MA, PhD
Maheu, John - BA, MEC, DPhil
McMillan, Robert - AB, DPhil
Melino, Angelo - BA, PhD
Oreopoulos, Philip - BA, MA, PhD
Osborne, Martin - BA, PhD (Associate Chair, Graduate Studies)
Park, Andreas - MEC, MPH, PhD
Pesando, James - BA, MA, PhD
Pitchik, Carolyn - BA, MSc, PhD
Reid, Frank - BA, MSc, PhD
Restuccia, Diego - BA, MA, PhD
Shi, Shouyong - BSc, MA, PhD
Siow, Aloysius - BA, PhD
Smart, Michael - BA, BA, PhD
Stabile, Mark - MA, MPH, PhD
Trebilcock, Michael - LLB, LLM
Trefler, Daniel - BA, MPH, PhD
Turner, Matthew - BA, AM, PhD
Yatchew, Adonis - BA, MA, PhD
Zhu, Xiaodong - PhD

Members Emeriti
Berry, R Albert - BA, PhD
Cohen, Jon - BA, MA, PhD
Denny, Michael - BSc, PhD
Eddie, Scott - BS, PhD
Floyd, John - BComm, MA, PhD
Fuss, Melvyn - BSc, MA, PhD
Helleiner, Gerald - BA, PhD
Hollander, Samuel - BSc, PhD
Hynes, J Allan - BA
Jump, Gregory - BA, PhD
Mathewson, Gilbert - BComm, PhD
Moggridge, Donald - BA, MA, PhD
Munro, John - BA, MA, PhD
Rotstein, Abraham - BA, PhD
Watson, Andrew - BComm, BA, MA
Wilson, Thomas - BA, AM, PhD

Associate Members
Bonacci, Gustavo - BA, PhD
Borda, Martin - BSc, MA, PhD
Dasgupta, Kunal - BS, MA, MS, PhD

Indart, Gustavo - BA, MA, PhD
Malinova, Ekaterina - BS, MA, PhD
Masson, Paul - PhD
Mondria, Jordi - BA, MA, PhD
Morrow, Peter - BA, MA, PhD
Shi, Xianwen - PhD
Stewart, Colin - BSc, MPH, MA, MSc, PhD
Suzuki, Junichi - BA, MA, PhD
Wolthoff, Ronald - PhD
Electrical and Computer Engineering

Faculty Affiliation
Applied Science and Engineering

Degree Programs Offered
Electrical and Computer Engineering – MASc, MEng, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Biomedical Engineering
   - Electrical and Computer Engineering, MASc, PhD
2. Optics
   - Electrical and Computer Engineering, MASc

Overview
The Edward S. Rogers Sr. Department of Electrical and Computer Engineering offers graduate courses and research opportunities in four programs of study. The Master of Applied Science and Doctor of Philosophy are research-based degree programs and require the completion of a thesis. The Master of Engineering is a course-based degree program and may be taken on a full-time or part-time basis.

The Master of Applied Science program provides students with an opportunity to pursue advanced studies in the particular field of major interest and an opportunity to engage in research. The program requires full-time study for a minimum of one year, coursework, and a thesis on a research project.

The Master of Engineering program is designed to provide professional training beyond the undergraduate level and to accelerate careers with specialized engineering expertise needed in business, government, and industry. The degree requirements, consisting of courses and an optional MEng project, are structured to be completed in one year by a full-time student.

The Doctor of Philosophy program is designed for those exceptional individuals who intend to pursue a career in fundamental or applied research. The program requires coursework and the successful completion of a research thesis.

The department offers research in the following areas:
1. Biomedical Engineering
2. Communications
3. Computer Engineering
4. Electromagnetics
5. Electronics
6. Energy Systems
7. Photonics
8. Systems Control

Details are available on the department's website at www.ece.utoronto.ca/research.htm.

Contact and Address
Web: www.ece.utoronto.ca
Email: darlene.gorzo@utoronto.ca
Telephone: (416) 978-3122
Fax: (416) 971-2993

The Edward S. Rogers Sr. Department of Electrical and Computer Engineering
University of Toronto
Sandford Fleming Building
Room 1107, 10 King's College Road
Toronto, Ontario M5S 3G4
Canada

Degree Programs
Electrical and Computer Engineering

Master of Applied Science
Minimum Admission Requirements
- An appropriate bachelor's degree in electrical and computer engineering or its equivalent from a recognized university.
- High academic standing equivalent to a mid-B or better, normally demonstrated by an average grade in the final year or over senior level courses.

Program Requirements
- Normally, 2.5 graduate full-course equivalents (FCEs) or five half courses. Students whose undergraduate preparation does not include the study of subjects deemed to be necessary for research in the chosen field will be required to complete additional courses.
- Each student's program of study must receive the approval of the Department of Electrical and Computer Engineering and, in general, shall consist of a research or design project on which a thesis must be submitted.
- Thesis. This thesis shall demonstrate the student's ability to do independent work in relating, organizing, and extending existing techniques where required, and in suggesting and developing new approaches to problems in an area of applied science and engineering.
Degree and Diploma Programs by Graduate Unit

- During the first year of registration, students are required to attend the ECE Colloquium and complete JDE 1000H Ethics in Research.

**Normal Program Length**: 6 sessions (2 years) full-time
**Time Limit**: 3 years full-time

**Master of Engineering**

**Minimum Admission Requirements**

- An appropriate bachelor's degree in electrical and computer engineering or its equivalent from a recognized university.
- High academic standing equivalent to a mid-B or better, normally demonstrated by an average grade in the final year or over senior level courses.

**Program Requirements**

- Normally comprise 4.5 graduate full-course equivalents (FCEs) or nine half courses for applicants with adequate undergraduate preparation. At least 2.5 graduate FCEs or five half courses must be drawn from graduate courses offered by the Department of Electrical and Computer Engineering.
- All students must enrol in a field of study.
- Students may choose to complete an engineering project with an equivalent value of 1.5 FCEs. Students choosing the project option will be required to complete a total of 3.0 FCEs in addition to the project. In order to pursue the project option, the student must secure a professor who will act as the supervisor throughout the project.
- The MEng degree program may be taken on a full-time or part-time basis.

**Normal Program Length**: 3 sessions (1 year) full-time
**Time Limit**: 3 years full-time; 6 years part-time

**Doctor of Philosophy**

**Minimum Admission Requirements**

- Admission may be granted by one of three routes:
  - University of Toronto master's degree in Electrical and Computer Engineering with an overall average of at least B+, or its equivalent from a recognized university
  - Direct-entry for exceptionally qualified students with an appropriate bachelor's degree from a recognized university
  - Transfer from the MASc to the PhD may be considered upon completion of 2.5 graduate full-course equivalents (FCEs) with an overall average of at least B+
- The department must be satisfied of the student's ability to do advanced research before admission may be granted.

**Program Requirements**

- Normally, students who enter the PhD with a master's degree will complete 2.5 full-course equivalents (FCEs) not previously used for other degree credit. Students may receive a course reduction of up to 1.0 FCE depending on their PhD research needs in relation to their studies at the master's level. The number of required courses will be determined by the Associate Chair, Graduate Studies, in consultation with the PhD supervisor.
- Direct-entry students will complete 4.0 graduate FCEs.
- Normally, students who transfer from the MASc to the PhD will complete 1.5 graduate FCEs, in addition to courses completed while registered in the MASc program. Students may be required to complete up to 1.0 additional FCE depending on their PhD research needs in relation to their studies at the master's level. The number of required courses will be determined by the Associate Chair, Graduate Studies, in consultation with the PhD supervisor.
- During the first year of PhD registration, each student must pass a qualifying oral examination in the area of research.
- During the first year of PhD registration, students are required to attend the ECE Colloquium.
- During the first year of PhD registration, students are required to complete JDE 1000H Ethics in Research if they have not already done so in a previous University of Toronto master's program.
- Thesis.

**Normal Program Length**: 4 years full-time; 5 years direct-entry
**Time Limit**: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master's

**Course List**

The following groups of courses in the more distinct fields of graduate study in Electrical and Computer Engineering are presented for student guidance in selecting courses. Suitable courses offered by other departments may be selected subject to the approval of the Department of Electrical and Computer Engineering.

Students registered in a graduate degree program which involves research are required to complete the seminar course JDE 1000H Ethics in Research during their first year of registration. The department should be consulted each session as to course offerings.

**Energy Systems**

- ECE 533H Power Electronics
- ECE 1030H Space Vector Theory and Control
- ECE 1041H Numerical Solution of Field Problems
### Electromagnetics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>ECE 524H</td>
<td>Microwave Circuits</td>
</tr>
<tr>
<td>ECE 1228H</td>
<td>Electromagnetic Theory</td>
</tr>
<tr>
<td>ECE 1229H</td>
<td>Advanced Antenna Theory</td>
</tr>
<tr>
<td>ECE 1236H</td>
<td>Microwave and Millimetre-wave Techniques</td>
</tr>
<tr>
<td>ECE 1243H</td>
<td>Topics in Electromagnetic Waves</td>
</tr>
<tr>
<td>ECE 1247H</td>
<td>Nonlinear Optics</td>
</tr>
<tr>
<td>ECE 1251H</td>
<td>Matter Wave Interaction</td>
</tr>
<tr>
<td>ECE 1252H</td>
<td>Introduction to Computational Electrodynamics</td>
</tr>
<tr>
<td>ECE 1253H</td>
<td>Active Microwave Circuits</td>
</tr>
</tbody>
</table>

### Electronics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>ECE 512H</td>
<td>Analog Filters</td>
</tr>
<tr>
<td>ECE 530H</td>
<td>Analog Electronics</td>
</tr>
<tr>
<td>ECE 534H</td>
<td>Integrated Circuit Engineering</td>
</tr>
<tr>
<td>ECE 1333H</td>
<td>Selected Topics in Semiconductor Physics</td>
</tr>
<tr>
<td>ECE 1334H</td>
<td>Selected Topics in Solid State Electronics/ VLSI Technology</td>
</tr>
<tr>
<td>ECE 1336H</td>
<td>Semiconductor Physics</td>
</tr>
<tr>
<td>ECE 1352H</td>
<td>Analog Circuit Design I</td>
</tr>
<tr>
<td>ECE 1360H</td>
<td>Selected Topics in Instrumentation</td>
</tr>
<tr>
<td>ECE 1362H</td>
<td>Filter Theory and Design</td>
</tr>
<tr>
<td>ECE 1364H</td>
<td>Selected Topics in Solid State Circuit Design</td>
</tr>
<tr>
<td>ECE 1365H</td>
<td>High Frequency Integrated Circuits</td>
</tr>
<tr>
<td>ECE 1371H</td>
<td>Advanced Topics in Analog Circuits</td>
</tr>
<tr>
<td>ECE 1373H</td>
<td>VLSI Systems Design</td>
</tr>
</tbody>
</table>

### Communications

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 1500H</td>
<td>Stochastic Processes</td>
</tr>
<tr>
<td>ECE 1501H</td>
<td>Error Control Codes</td>
</tr>
<tr>
<td>ECE 1502H</td>
<td>Information Theory</td>
</tr>
<tr>
<td>ECE 1505H</td>
<td>Convex Optimization</td>
</tr>
<tr>
<td>ECE 1506H</td>
<td>Communications and Signal Processing—Seminar I</td>
</tr>
<tr>
<td>ECE 1507H</td>
<td>Communications and Signal Processing—Seminar II</td>
</tr>
</tbody>
</table>

### Biomedical Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>JEB 1365H</td>
<td>Ultrasound Theory and Applications in Biology and Medicine</td>
</tr>
<tr>
<td>JEB 1375H</td>
<td>Practical Optimization</td>
</tr>
<tr>
<td>JEB 1433H</td>
<td>Medical Imaging</td>
</tr>
<tr>
<td>JEB 1444H</td>
<td>Neural Engineering</td>
</tr>
<tr>
<td>JEB 1447H</td>
<td>Sensory Communications</td>
</tr>
<tr>
<td>JEB 1451H</td>
<td>Cellular Bioelectricity</td>
</tr>
<tr>
<td>BME 1452H</td>
<td>Signal Processing for Bioengineering</td>
</tr>
</tbody>
</table>

### Photonics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 525H</td>
<td>Lasers and Detectors</td>
</tr>
<tr>
<td>ECE 527H</td>
<td>Passive Photonic Devices</td>
</tr>
<tr>
<td>ECE 1435H</td>
<td>Applied Optics</td>
</tr>
<tr>
<td>ECE 1448H</td>
<td>Quantum Mechanics for Engineers</td>
</tr>
<tr>
<td>ECE 1449H</td>
<td>Photonics I (Exclusion: students who have taken ECE 527H cannot take ECE 1449H)</td>
</tr>
<tr>
<td>ECE 1450H</td>
<td>Photonics II</td>
</tr>
<tr>
<td>ECE 1460H</td>
<td>Special Topics in Photonics</td>
</tr>
<tr>
<td>ECE 1461H</td>
<td>Advanced Laser Processing</td>
</tr>
<tr>
<td>ECE 1467H</td>
<td>Integrated Optical Circuit Design</td>
</tr>
<tr>
<td>ECE 1468H</td>
<td>Electronic and Optical Properties of Quantum Dots</td>
</tr>
<tr>
<td>ECE 1469H</td>
<td>Amorphous Semiconductors: Fundamentals and Applications</td>
</tr>
<tr>
<td>ECE 1470H</td>
<td>Nanocomposite Materials for Luminescence, Detection, Modulation, and Switching</td>
</tr>
<tr>
<td>ECE 1471H</td>
<td>Erbium-doped Fiber Amplifiers: Design and Characterizations</td>
</tr>
<tr>
<td>ECE 1472H</td>
<td>Photonic Fabrication and Packaging</td>
</tr>
<tr>
<td>ECE 1473H</td>
<td>Micro and Nano Fabrication Technologies for Compound Semiconductors</td>
</tr>
<tr>
<td>ECE 1474H</td>
<td>Fibre Lasers and Amplifiers</td>
</tr>
<tr>
<td>ECE 1475H</td>
<td>Bio Photonics</td>
</tr>
<tr>
<td>ECE 1476H</td>
<td>High-efficiency Photovoltaics</td>
</tr>
</tbody>
</table>

### Degree and Diploma Programs by Graduate Unit

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 1042H</td>
<td>High-Voltage Engineering</td>
</tr>
<tr>
<td>ECE 1049H</td>
<td>Special Topics in Power Devices and Systems</td>
</tr>
<tr>
<td>ECE 1055H</td>
<td>Dynamics of HVdc/ac Transmission Systems</td>
</tr>
<tr>
<td>ECE 1057H</td>
<td>Static Power Converters I—Principles of Operation and Applications</td>
</tr>
<tr>
<td>ECE 1058H</td>
<td>Static Power Converters II—Dynamics and Control</td>
</tr>
<tr>
<td>ECE 1059H</td>
<td>Special Topics in Power Systems</td>
</tr>
<tr>
<td>ECE 1063H</td>
<td>Application of Power Devices</td>
</tr>
<tr>
<td>ECE 1065H</td>
<td>Custom Power Controllers</td>
</tr>
<tr>
<td>ECE 1066H</td>
<td>Design of High-Frequency Switch-Mode Power Supplies (SMPS)</td>
</tr>
<tr>
<td>ECE 1067H</td>
<td>Switch-Mode Power Supplies (SMPS)</td>
</tr>
<tr>
<td>ECE 1068H</td>
<td>EMC in Power Engineering</td>
</tr>
<tr>
<td>ECE 1072H</td>
<td>AC Drive System Dynamics</td>
</tr>
<tr>
<td>ECE 1081H</td>
<td>Application of the Finite Element Method to Field Problems</td>
</tr>
<tr>
<td>ECE 1082H</td>
<td>Mathematics for Advanced Electromagnetics</td>
</tr>
<tr>
<td>ECE 1083H</td>
<td>Harmonic Balance and the Finite Element Method</td>
</tr>
<tr>
<td>ECE 1084H</td>
<td>Design of Advanced High-Efficiency Switched Mode Power Supplies</td>
</tr>
<tr>
<td>ECE 1085H</td>
<td>Power System Optimization</td>
</tr>
<tr>
<td>ECE 1089H</td>
<td>Special Topics in Electromagnetics</td>
</tr>
<tr>
<td>ECE 1379H</td>
<td>Introduction to Compound Semiconductor Devices</td>
</tr>
<tr>
<td>ECE 1384H</td>
<td>Digital Circuit Design</td>
</tr>
<tr>
<td>ECE 1385H</td>
<td>Selected Topics in VLSI Systems</td>
</tr>
<tr>
<td>ECE 1387H</td>
<td>CAD for Digital Circuit Synthesis and Layout</td>
</tr>
<tr>
<td>ECE 1388H</td>
<td>VLSI Design Methodology</td>
</tr>
<tr>
<td>ECE 1390H</td>
<td>Selected Topics in Circuits and Systems</td>
</tr>
<tr>
<td>ECE 1391H</td>
<td>Advanced Microelectronic Devices</td>
</tr>
<tr>
<td>ECE 1392H</td>
<td>Integrated Circuits for Digital Communications</td>
</tr>
<tr>
<td>ECE 1393H</td>
<td>Semiconductor Devices</td>
</tr>
<tr>
<td>JEB 1365H</td>
<td>Ultrasound Theory and Applications in Biology and Medicine</td>
</tr>
<tr>
<td>JEB 1375H</td>
<td>Practical Optimization</td>
</tr>
<tr>
<td>JEB 1433H</td>
<td>Medical Imaging</td>
</tr>
<tr>
<td>JEB 1444H</td>
<td>Neural Engineering</td>
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<tr>
<td>JEB 1447H</td>
<td>Sensory Communications</td>
</tr>
<tr>
<td>JEB 1451H</td>
<td>Cellular Bioelectricity</td>
</tr>
<tr>
<td>BME 1452H</td>
<td>Signal Processing for Bioengineering</td>
</tr>
</tbody>
</table>
### Degree and Diploma Programs by Graduate Unit

**Electrical and Computer Engineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 1508H</td>
<td>Special Topics in Communications</td>
</tr>
<tr>
<td>ECE 1511H</td>
<td>Signal Processing</td>
</tr>
<tr>
<td>ECE 1515H</td>
<td>Smart Antennas</td>
</tr>
<tr>
<td>ECE 1516H</td>
<td>Visual Data Engineering</td>
</tr>
<tr>
<td>ECE 1517H</td>
<td>Biometric Systems</td>
</tr>
<tr>
<td>ECE 1518H</td>
<td>Seminar in Identity, Privacy, and Security</td>
</tr>
<tr>
<td>ECE 1520H</td>
<td>Data Communications I</td>
</tr>
<tr>
<td>ECE 1521H</td>
<td>Statistical Communication Theory</td>
</tr>
<tr>
<td>ECE 1522H</td>
<td>Data Communications II</td>
</tr>
<tr>
<td>ECE 1523H</td>
<td>Coded Modulation</td>
</tr>
<tr>
<td>ECE 1528H</td>
<td>Special Topics in Data Communications</td>
</tr>
<tr>
<td>ECE 1529H</td>
<td>Adaptive Systems for Signal Processing and Communications</td>
</tr>
<tr>
<td>ECE 1530H</td>
<td>Multi-User Detection</td>
</tr>
<tr>
<td>ECE 1531H</td>
<td>Quantum Information Theory</td>
</tr>
<tr>
<td>ECE 1540H</td>
<td>Digital Telephony</td>
</tr>
<tr>
<td>ECE 1541H</td>
<td>Communication Networks I</td>
</tr>
<tr>
<td>ECE 1542H</td>
<td>Communication Networks II</td>
</tr>
<tr>
<td>ECE 1543H</td>
<td>Mobile Communications Systems</td>
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<tr>
<td>ECE 1544H</td>
<td>Optical Communication Networks</td>
</tr>
<tr>
<td>ECE 1545H</td>
<td>Bridges and Routers</td>
</tr>
<tr>
<td>ECE 1546H</td>
<td>Broadband Integrated Networks</td>
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<tr>
<td>ECE 1547H</td>
<td>Content-Based and Network Security</td>
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<tr>
<td>ECE 1548H</td>
<td>Advanced Network Architectures</td>
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<tr>
<td>ECE 1557H</td>
<td>Systems Control</td>
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<tr>
<td>ECE 1617H</td>
<td>Large Scale System Theory and Control I</td>
</tr>
<tr>
<td>ECE 1635H</td>
<td>Special Topics in Control I</td>
</tr>
<tr>
<td>ECE 1636H</td>
<td>Control of Discrete-Event Systems I</td>
</tr>
<tr>
<td>ECE 1637H</td>
<td>Control of Discrete-Event Systems II</td>
</tr>
<tr>
<td>ECE 1639H</td>
<td>Analysis and Control of Stochastic Systems I</td>
</tr>
<tr>
<td>ECE 1640H</td>
<td>Analysis and Control of Stochastic Systems II</td>
</tr>
<tr>
<td>ECE 1641H</td>
<td>Multivariable Control Design</td>
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<tr>
<td>ECE 1643H</td>
<td>Special Topics in Control II</td>
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<tr>
<td>ECE 1644H</td>
<td>Large Scale System Theory and Control II</td>
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<tr>
<td>ECE 1646H</td>
<td>Digital Control</td>
</tr>
<tr>
<td>ECE 1647H</td>
<td>Introduction to Nonlinear Control Systems</td>
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<td>ECE 1648H</td>
<td>Nonlinear Control Systems</td>
</tr>
<tr>
<td>ECE 1649H</td>
<td>Adaptive Control</td>
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<tr>
<td>ECE 1651H</td>
<td>Adaptive Signal Processing and Control</td>
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<tr>
<td>ECE 1652H</td>
<td>Stochastic Processes with Applications</td>
</tr>
<tr>
<td>ECE 1653H</td>
<td>Hybrid Systems and Control Applications</td>
</tr>
<tr>
<td>ECE 1654H</td>
<td>Optical Networks: A Systems Control Perspective</td>
</tr>
<tr>
<td>ECE 1655H</td>
<td>Optimal Control</td>
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</tbody>
</table>

**Computer Engineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECE 516H</td>
<td>Personal Cybernetics and Intelligent Imaging Systems</td>
</tr>
<tr>
<td>ECE 532H</td>
<td>Digital Hardware</td>
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<tr>
<td>ECE 540H</td>
<td>Optimizing Compilers</td>
</tr>
<tr>
<td>ECE 1718H</td>
<td>Special Topics in Computer Hardware Design</td>
</tr>
<tr>
<td>ECE 1724H</td>
<td>Special Topics in Software Engineering</td>
</tr>
<tr>
<td>ECE 1746H</td>
<td>Distributed Systems</td>
</tr>
<tr>
<td>ECE 1747H</td>
<td>Parallel Programming</td>
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<tr>
<td>ECE 1749H</td>
<td>Interconnection Networks for Parallel Computer Architectures</td>
</tr>
<tr>
<td>ECE 1752H</td>
<td>Real Time Systems and Software</td>
</tr>
<tr>
<td>ECE 1754H</td>
<td>Compilation Techniques for Parallel Processors</td>
</tr>
<tr>
<td>ECE 1755H</td>
<td>Parallel Computer Architecture and Programming</td>
</tr>
<tr>
<td>ECE 1756H</td>
<td>Digital Hardware Design Using Programmable Logic Devices</td>
</tr>
<tr>
<td>ECE 1759H</td>
<td>Advances in Operating Systems</td>
</tr>
<tr>
<td>ECE 1761H</td>
<td>Advanced Topics in Digital Hardware</td>
</tr>
<tr>
<td>ECE 1762H</td>
<td>Algorithms and Data Structures</td>
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<tr>
<td>ECE 1765H</td>
<td>File Structures and Storage Systems</td>
</tr>
<tr>
<td>ECE 1767H</td>
<td>Design for Test and Testability</td>
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<tr>
<td>ECE 1768H</td>
<td>Reliability of Integrated Circuits</td>
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<tr>
<td>ECE 1769H</td>
<td>Behavioral Synthesis of Digital Integrated Circuits</td>
</tr>
<tr>
<td>ECE 1770H</td>
<td>Trends in Middleware Systems—Selected Topics and Concepts</td>
</tr>
<tr>
<td>ECE 1771H</td>
<td>Quality of Service</td>
</tr>
<tr>
<td>ECE 1772H</td>
<td>Motion Analysis in Computer Vision</td>
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<tr>
<td>ECE 1773H</td>
<td>Advanced Computer Architecture</td>
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<tr>
<td>ECE 1774H</td>
<td>Sensory Cybernetics</td>
</tr>
<tr>
<td>ECE 1775H</td>
<td>Microphone Arrays: Theory and Applications</td>
</tr>
<tr>
<td>ECE 1776H</td>
<td>Computer Security, Cryptography and Privacy</td>
</tr>
<tr>
<td>ECE 1777H</td>
<td>Computer Methods for Circuit Simulation</td>
</tr>
<tr>
<td>ECE 1778H</td>
<td>Creativity and Programming of Mobile Devices</td>
</tr>
</tbody>
</table>

**Master of Engineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ECE 2500Y</td>
<td>Master of Engineering Project</td>
</tr>
</tbody>
</table>

**Graduate Faculty**

**Full Members**

- Aarabi, Parham - BASc, MASc, PhD
- Abdelrahman, Tarek - BSc, MSc, PhD
- Adve, Raviraj - Btech, PhD
- Alitchison, J. Stewart - BSc, PhD
- Amza, Cristina - BS, MS, PhD
- Anderson, Jason Helge - BSc, MASc, PhD
- Baecker, Ronald - BS, MSc, PhD
- Bardakjian, Berj - BSc, BEd, MASc, PhD
- Ben Amara, Foued - BSE, MSc, MSEE, PhD
- Benhabib, Bensiyon - BSc, MSc, PhD
- Betz, Vaughn - BSc, MS, PhD
- Broucke, Mireille - BScEE, MS, PhD
- Brown, Stephen - BSE, MASc, PhD
- Chan Carusone, Anthony - BASc, PhD
- Chechk, Marsha - BS, MS, PhD
- Chow, Paul - BASc, MASc, PhD
- Dawson, Francis - BSc, BASc, MASc, PhD
- De Lara, Eyal - BS, MS, PhD
- Easterbrook, Stephen Michael - Bsc, PhD
- Eizenman, Moshe - BASc, MASc, PhD
- Eleftheriades, George - DIPING, MSEE, PhD
- Enright Jerger, Natalie - BSc, MSc, PhD
- Flume, Eugene - BM, MSc, PhD
Francis, Bruce - BASc, MEng, PhD
Frey, Brendan - BSc, MSc, PhD
Genov, Roman - BS, MS, PhD
Goel, Ashvin - BTech, MS, PhD
Guilak, Glenn - BASc, MSc, PhD
Hatzinakos, Dimitrios - DIPING, MSc, PhD
Helmy, Amr - BSc, MSc, PhD
Herman, Peter - BEng, MSc, PhD
Hum, Sean - BSc, MSc, PhD, Reg Professional Engineer
Iravani, Mohammad - BSc, MSc, PhD
Jacobsen, Hans-Arno - MCS, PhD
Johns, David Andrew - BASc, MASc, PhD
Kherani, Nazir - BASc, MASc, PhD
Khisti, Ashish - BASc, PhD
Kschischang, Frank - BASc, MASc, PhD
Kwong, Raymond - SB, SM, PhD
Lehn, Peter - BScEE, MSc, PhD
Levi, Ofer - BSc, MSc, PhD
Li, Baocun - BEng, MSc, DPhil
Liang, Ben - BS, MS, PhD
Lie, David - BASc, MS, PhD
Liebeforr, Jorg - DIPING, PhD
Lim, Teng Joon - BEng, PhD
Lo, Hoi-Kwong - BA, MA, MS, PhD
Maggiore, Manfredi - MS, PhD
Mandelis, Andreas - BSc, MA, MSc, PhD
Mann, Steve - BSc, BASc, MSc, PhD
Martin, Kenneth - BASc, MSc, PhD
Mojahedi, Mohammad - BSE, MS, PhD
Moschos, Andreas - BSc, MS, PhD
Nachman, Adrian - BSc, MA, PhD
Najmi, Farid - BE, MSEE, PhD (Chair and Graduate Chair)
Ng, Wai Tung - BSc, MASc, PhD
Pavel, Lacra - BEng, PhD
Plataniotis, Konstantinos - DIPING, MS, PhD
Poon, Joyce - BASc, MS, PhD
Popovic, Milos - DIPING, PhD
Prodic, Aleksandar - BS, MSc, PhD
Qian, Li - BASc, MSc, PhD
Rose, Jonathan - BASc, MSc, PhD
Ruda, Harry - BSc, PhD
Sargent, Edward - BEng, PhD
Sarris, Konstantinos - BE, MS, PhD
Sedra, Adel - BSc, MASc, PhD
Sheikholeslam, Ali - BSc, MASc, PhD
Souza, Elvino - BASc, MASc, PhD
Steffan, J. Gregory - BASc, MS, MASc, PhD
Stumm, Michael - MS, PhD
Sun, Yu - BS, MS, PhD
Tate, Joseph - BS, MS, PhD
Trescases, Olivier - BASc, MASc, PhD
Truong, Kien (Kevin) - BASc, PhD
Valae, Shahrokhi - BScEE, MSEE, PhD
Veneris, Andreas - BSc, MSc, PhD
Vicente, Joaquim Jose - BSc, MS, PhD
Voinigescu, Sorin - MS, PhD
Wong, Willy - BSc, MSc, PhD (Associate Chair, Graduate Studies)
Yu, Wei - BASc, MSEE, PhD
Zhu, Jianwen - BS, MS, PhD

Members Emeriti
Balmain, Keith - BSc, MS, PhD
Blake, Ian - BASc, MASc, PhD
Bonert, Richard - DIPING, DE
Cobbold, Richard - PhD
Davison, Edward - BASc, MA, PhD, Assoc Royal Conserv Tor
Iizuka, Keigo - BS, ME, MS, PhD
Joy, Michael - BSc, MASc, PhD
Kunov, Hans - MSc, PhD
Lavers, Douglas - BSc, MASc, PhD
Lee, E Stewart - BEng, MEng, PhD
Pasupathy, Subbarayan - BE, MPH, PhD
Salama, Andre - BASc, MASc, PhD
Semyen, Adam - PhD, PhD
Slenor, Gordon - DIC, MASc, PhD, DSc
Smith, Kenneth - BASc, MASc, PhD
Smith, Peter - BSc, MSc, PhD
Venetsanopoulos, Anastasios - BE, MASc, MPH, PhD
Vranesic, Zvonko - BASc, MASc, PhD
Wongham, Walter - BEng, PhD
Zukotynski, Stefan - MASc, PhD

Associate Members
Apkarian, Jacob - BE, MASc, PhD
Demke Brown, Angela - PhD
Doostnejad, Roya - BSc, MASc, PhD
Eckford, Andrew - BE, MASc, PhD
Hussein, Ali - BSc, BSc, MSc, PhD
Lostanlen, Yves - MSc, PhD
Stergiopoulos, Stergios - BS, MSc, PhD
Yang, Victor - BASc, MASc, MD, PhD
Faculty Affiliation
Arts and Science

Degree Programs Offered
English – MA, JD/MA, PhD
Fields (MA, PhD):
  • American Literature
  • Aspects of Theory
  • Canadian Literature
  • Medieval Literature
  • Renaissance Literature
  • Restoration & Eighteenth-Century Literature
  • Romantic & Victorian Literature
  • Twentieth-Century British and Irish Literature
  • World Literatures in English
Field (MA only):
  • Creative Writing

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Book History and Print Culture
   • English, MA, PhD
2. Diaspora and Transnational Studies
   • English, MA, PhD
3. Editing Medieval Texts
   • English, PhD
4. Health Care, Technology and Place
   • English, PhD
5. Jewish Studies
   • English, MA, PhD
6. Sexual Diversity Studies
   • English, MA, PhD
7. South Asian Studies
   • English, MA, PhD
8. Women and Gender Studies
   • English, MA, PhD
9. Women’s Health
   • English, MA, PhD

Overview
One of the strongest and most diverse graduate English programs in North America, the University of Toronto’s Graduate English Department presents a wide array of approaches to the study of literature that includes both rigorous historical scholarship and the innovations of new theoretical, cultural, and interdisciplinary methods. This rich variety is exemplified in the more than 40 graduate seminars offered every year and in the interdisciplinary conjunctions with other departments and collaborative programs. The MA and PhD programs offer a broad background in British, Canadian, Aboriginal, American, and Postcolonial literatures, a sophisticated command of current theoretical approaches, and exceptional support for significant research projects.

Contact and Address
Web: www.english.utoronto.ca
Email: deptofenglish.graduate@utoronto.ca
Telephone: (416) 978-2526
Fax: (416) 978-2836
Department of English
University of Toronto
Jackman Humanities Building
6th Floor, 170 St. George Street
Toronto, Ontario M5R 2M8
Canada

Degree Programs
English

Master of Arts

Fields
The MA in English degree is offered in 10 fields:
  • American Literature
  • Aspects of Theory
  • Canadian Literature
  • Creative Writing
  • Medieval Literature
  • Renaissance Literature
  • Restoration and Eighteenth-Century Literature
  • Romantic and Victorian Literature
  • Twentieth-Century British and Irish Literature
  • World Literatures in English

Minimum Admission Requirements
See additional requirements for Creative Writing field below.
  • Students are accepted under the General Regulations of the School of Graduate Studies.
  • B+ average or better and evidence of first-class work in English. The department favours a broad training in the major genres and all periods of English literary history.
  • Recommendations from two referees.
  • A statement of purpose.
Applicants are encouraged to take the Graduate Record Examination (GRE) and to have a report sent to the department.

Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English are required to write the Test of English as a Foreign Language (TOEFL). Minimum scores required are:
- 600 on the paper-based test and 5 on the TWE
- 100/120 on the Internet-based test, with at least 22/30 on the writing and speaking sections

Admissions are selective; possession of minimum qualifications does not guarantee admission.

Program Requirements

See program requirements for Creative Writing field below.

- Students may elect to take the degree by coursework only or, with permission of the Director, by coursework and thesis. In either case, students must attain a B standing in each graduate course.
- MA by coursework. This is the preferred option for most students, and especially for those going on to the PhD. Students are required to complete ENG 6999Y Critical Topographies: Theory and Practice of Contemporary Literary Studies in English and 3.0 approved graduate full-course equivalents (FCEs) in English
- MA by thesis. The thesis option requires ENG 6999Y Critical Topographies: Theory and Practice of Contemporary Literary Studies in English, 1.5 graduate FCEs in English, and a thesis of approximately 30,000 words on a topic approved by the department.

Field Creative Writing

Admission Requirements

- In addition to the above admission requirements for the MA program in fields pertaining to Literature and Theory, applicants wishing to enter the program in the field of Creative Writing must also submit a portfolio consisting of 20–25 pages of prose (drama, fiction, or creative non-fiction), and/or poetry. Details appear on the department’s website.

Program Requirements

- Completion of 2.0 full-course equivalents (FCEs) in English, ENG 6950Y Workshop in Creative Writing, and a supervised Writing Project (the equivalent of a thesis). All students must complete Workshop in Creative Writing in the first year of their program.
- Upon completion of coursework, students undertake a book-length Writing Project in a genre of choice: poetry, drama, fiction, or creative non-fiction. Each student is assigned a faculty member or adjunct faculty member with whom to consult on a regular basis about the Project. All advisors are published writers.

Normal Program Length: 3 sessions full-time all fields except Creative Writing; 5 sessions full-time Creative Writing field

Time Limit: 3 years full-time

Combined Juris Doctor/Master of Arts in English and Law

The Combined Juris Doctor/Master of Arts in Law and English is designed for students interested in studying the intersections of law and literature. The combined program permits the completion of both degrees in three years rather than the four years it would take to acquire them independently.

Applicants must apply to each program separately; they should indicate on their applications that they wish to be considered for the Combined JD/MA program. Students are registered in the Faculty of Law for all three years of the program and in the Department of English as well for the last two years. The MA in English must be completed by coursework, not by thesis.

Minimum Admission Requirements

- Students are considered for the combined program after they have secured independent admission to the JD and MA programs.

Program Requirements

- Complete all requirements for the MA in English (coursework) during their two years of registration in the Department of English, i.e., ENG 6999Y Critical Topographies, and 2.0 approved full-course equivalents (FCEs) in English, including 1.0 from a set of designated Law and Literature program courses.
- Complete 44 credits at the Faculty of Law, including Law and Literature or a designated alternative, and satisfy all other requirements of the JD program.
- Complete a Directed Research Project or Independent Study Course on a topic related to law and literature that may count toward either the law or English requirements of the program.

Time Limit: 4 years full-time

Doctor of Philosophy

Fields

The PhD in English degree is offered in nine fields:
- American Literature
- Aspects of Theory
- Canadian Literature
- Medieval Literature
- Renaissance Literature
- Restoration and Eighteenth-Century Literature
- Romantic and Victorian Literature
Degree and Diploma Programs by Graduate Unit

- Twentieth-Century British and Irish Literature
- World Literatures in English

Minimum Admission Requirements

- General Regulations of the School of Graduate Studies.
- Admission by one of two routes:
  - an appropriate bachelor's degree from a recognized university that includes at least 8.0 full-course equivalents (FCEs) in English with an average grade equivalent to at least a University of Toronto A- in the applicant's overall program, or
  - a master's degree in English from a recognized university, with an average grade equivalent to at least a University of Toronto A- in the applicant's overall program.
- Applicants must satisfy the department that they are capable of independent research in English at an advanced level. Applicants who have taken the Graduate Record Examination are encouraged to have a report sent to the department.
- Recommendations from two referees.
- A writing sample of not more than 5,000 words (approximately 15–20 pages).
- A statement of purpose.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English are required to write the Test of English as a Foreign Language (TOEFL). Minimum scores required are:
  - 600 on the paper-based test and 5 on the TWE
  - 100/120 on the Internet-based test, with at least 22/30 on the writing and speaking sections
- Admission to the PhD is based on the applicant's undergraduate and graduate records and upon the evidence of the references and statement.
- Admissions are selective; possession of minimum qualifications does not guarantee admission.

Program Requirements

- Students pursue a program of study and research approved by the department.

Courses

- The minimum course requirements for the degree are as follows.
  - Students admitted directly from a bachelor's degree must take a total of 8.0 FCEs:
    - ENG 6999Y Critical Topographies: Theory and Practice of Contemporary Literary Studies in English, ENG 8000H Texts, Theories, and Archives, ENG 9500Y Professional Development, ENG 9900H Professing Literature, and 5.0 additional FCEs in English, as approved by the department. The student must complete ENG 6999Y plus 2.0 FCEs in the first year of the program, with an average grade of at least an A-. Students must complete all remaining courses, except for ENG 9500Y Professional Development, by the end of the third year of the program, with an average of at least an A- in order to maintain good academic standing and to continue in the PhD program. In order to maintain good academic standing, and to continue in the PhD program, the student must complete each course with a grade of at least B.
  - Students admitted with a master's degree must take ENG 8000H Texts, Theories, and Archives, unless this or an equivalent course has already been taken; ENG 9500Y Professional Development; ENG 9900H Professing Literature; and 3.0 additional FCEs in English, as approved by the department. In order to maintain good academic standing, and to continue in the PhD program, the student must complete all coursework by the end of the second year of the program, maintaining an average of at least an A-. A student who receives a final grade for a course lower than a B will no longer be in good academic standing.
  - Every student must take at least 2.0 FCEs outside the field of specialization. The student is encouraged to combine these courses in a minor field. (Graduate courses taken as part of the master’s program and in fulfilment of the English language requirement may be counted in this connection, but not ENG 6954H Studies in Bibliography if taken before fall 2011, nor ENG 6999Y Critical Topographies: Theory and Practice of Contemporary Literary Studies in English, nor courses in the 9000 series.)
- Course selection must meet the approval of the department.

English Language Requirement

- Demonstrated knowledge of the history and development of the English language, especially of its early period.
- Any student who has not completed ENG 240Y or an equivalent full-year undergraduate course in Old English with at least a B standing, is required either to take one of the following courses in the English language: ENG 1001H Old English I, ENG 6361H History and Structure of the English Language I, ENG 6362H History and Structure of the English Language: Post-1500, or ENG 6365H Diasporic Englishes. The requirement can also be satisfied by taking a special examination in Old English.

Language Requirement

- Demonstrated reading knowledge of French by May 31 of the third year of registration, in the case of a student admitted on the basis of a master’s
degree; otherwise, by May 31 of the fourth year of registration.

- With the permission of the department, another language (other than English) may be substituted for French provided that this other language is required by the student's research area.
- The supervisory committee may require the student to qualify in other program-related languages as well.

**General and Special Field Examinations**

Students are required to pass two separate examinations: the general examination and the special field examination.

- The general examination is designed to give students a broad knowledge of historical periods, works of literature, and critical concepts. It consists of two three-hour written papers covering the whole range of English literature, divided at 1700. A reading list is provided for this examination on the department website, and sample examinations are available in the department. Students entering the PhD program with a master's degree take both parts of the general examination in September of their second year. Students entering the program directly from a bachelor's degree take the examination in September of their third year. A January sitting of the examination is designed to accommodate students with special circumstances. Under normal circumstances, students are given two chances to pass the general examination before termination from the program is recommended. Under certain circumstances, subject to the determination of a particular student's academic standing and progress, the department may allow a third attempt.

- The special field examination has three components: a written examination, based on a reading list related to the student's thesis research and drawn up in consultation with the supervisory committee; a short position paper, in which the student articulates the argument and stakes of the proposed thesis in light of the preparation for this written examination; and an oral examination that engages in part with the written examination and in part with the position paper. Students entering the PhD program with a master's degree generally take the special field examination no later than the end of the first session of their third year. Students entering the program directly from a bachelor's degree generally take the examination no later than the end of the first session of the fourth year. A second attempt of the special field examination is allowed on the recommendation of the student's committee.

- The student must have completed all requirements for the degree, exclusive of thesis research, by the end of the third year (fourth year for students admitted directly from a bachelor's degree) in order to remain in good standing in the program.

**Thesis**

- A candidate is required to submit a thesis on an approved subject embodying the results of original investigation which constitute a significant contribution to the knowledge of the field, and to pass an oral examination on the subject of the thesis. The normal length of a PhD thesis is approximately 75,000 words. The maximum length accepted by the department is 100,000 words.

- No later than November 1 of the second year of registration, in the case of a student admitted on the basis of a master's degree; otherwise, by November 1 of the third year of registration, the student must submit to the Associate Director, PhD, a preliminary thesis proposal, approved by the prospective supervisor. The proposals are circulated to all graduate faculty in the department for information and comment. The Associate Director, PhD, appoints a supervisory committee that includes a supervisor and two other faculty members with expertise in the proposed research area. The student is required to meet with the supervisory committee within three months of submitting the preliminary proposal. An approved thesis proposal signed by all members of the supervisory committee and by the Associate Director, PhD, must be submitted by February 15 of the second year of registration, in the case of a student admitted on the basis of a master's degree; otherwise, by February 15 of the third year of registration.

- The student and the supervisor should meet regularly. The student is also required to meet at least once a year with the supervisory committee. The supervisory committee should normally approve the completed thesis before it is submitted for examination.

- The doctoral final oral examination is arranged by the department in collaboration with the School of Graduate Studies. The candidate should allow at least eight weeks from submission of the thesis for the department to complete the arrangements for the oral examination.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

**Course List**

The following list of courses is subject to revision; further information, including course descriptions, may be obtained from the department before enrolment. Courses offered by the department vary considerably from year to year.

Students in English are eligible to take courses in other graduate units (e.g., Comparative Literature,
### Degree and Diploma Programs by Graduate Unit

Medieval Studies, Drama, Information, South Asian Studies, Women’s Studies.

From time to time, the department also offers programs of directed reading in special fields. These “reading courses” are normally available only to students in the PhD program. With the special approval of the Director of Graduate Studies, PhD students may substitute one such course for one (and not more than one) of the required courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENG 1001H</td>
<td>Old English I</td>
</tr>
<tr>
<td>ENG 1002H</td>
<td>Old English II</td>
</tr>
<tr>
<td>ENG 1008H</td>
<td>Medieval Entertainers</td>
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<td>ENG 1009H</td>
<td>Writing the Nation: Pre-Modern Historiographies</td>
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<tr>
<td>ENG 1551H</td>
<td>The Canterbury Tales</td>
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<td>ENG 2001H</td>
<td>Animal/Human Interfaces in Early Modern Culture</td>
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<tr>
<td>ENG 2002H</td>
<td>Early Modern Ecologies</td>
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<tr>
<td>ENG 2007H</td>
<td>Gender and Song in the Early Modern Context</td>
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<tr>
<td>JEH 2020H</td>
<td>Early Modern Diaspora: A Cross-disciplinary Seminar on the Literature and History of Exile</td>
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<tr>
<td>ENG 2225H</td>
<td>Renaissance Lyric, in Theory</td>
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<td>ENG 2235H</td>
<td>“1594”</td>
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<tr>
<td>ENG 2429H</td>
<td>Gender, Courtesy, and Civility in Early Modern England</td>
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<td>ENG 2467H</td>
<td>Milton’s Early Modern Nation</td>
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<td>ENG 2485H</td>
<td>London Drama 1190–1590</td>
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<td>ENG 2533H</td>
<td>Historicizing Shakespeare’s Language: Discourse Analysis and Early Modern Studies</td>
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<td>ENG 2586H</td>
<td>Popular Drama in Early Modern England</td>
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<td>ENG 2588H</td>
<td>Popular Legend in the Plays of Shakespeare and His Contemporaries</td>
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<td>ENG 2653H</td>
<td>Renaissance Tragedy</td>
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<td>ENG 3044H</td>
<td>English Comedy, 1660–1737</td>
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<td>ENG 3403H</td>
<td>Literature of the Seven Years War</td>
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<td>ENG 4216H</td>
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<td>ENG 4503H</td>
<td>Darwin and Darwinism</td>
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<td>ENG 4665H</td>
<td>Romantic Cities</td>
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<td>ENG 4811H</td>
<td>Victorian Realism and the Victorian Realist Novel: Studies in Narrative</td>
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<td>ENG 4885H</td>
<td>Sociality and its Discontents: the Social and Anti-social in the Victorian Novel</td>
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<td>ENG 4906H</td>
<td>Novel, Reconstruction, and the Civil War Amendments</td>
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<td>ENG 4947H</td>
<td>Studies in Victorian Poetry (Ballads and Romances)</td>
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<td>ENG 5024H</td>
<td>Anglo-Jewish Fiction and Poetry of the Twentieth Century</td>
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<td>ENG 5040H</td>
<td>Pathological Forgetting in Canadian Literature</td>
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<td>ENG 5050H</td>
<td>Literature, Law and Liberal Culture in the United States 1776–1865</td>
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<td>ENG 5058H</td>
<td>Magical Realism(s): Postcolonialism and Postmodernism</td>
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<td>ENG 5206H</td>
<td>“Sir Beelzebub’s Syllabub”: The Poetry of Edith Sitwell</td>
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<td>ENG 5275H</td>
<td>Elizabeth Bishop and Marianne Moore Studies in Poetics</td>
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<tr>
<td>ENG 5276H</td>
<td>The Vietnam War Era and Canadian Literature</td>
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<td>ENG 5280H</td>
<td>American Realism and Reform</td>
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<td>ENG 5318H</td>
<td>Catastrophe, Community, Commodity, and Control in the 1930s: Studies in Historical Analysis</td>
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<tr>
<td>ENG 5519H</td>
<td>Narrative, Narratology, and Modernist Fiction: Studies in Narrative</td>
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<td>ENG 5540H</td>
<td>Modernism and its Media: Fiction and Theatre in an Age of Film and Radio</td>
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<td>ENG 5572H</td>
<td>The City as Archive: Social Memory, Missing Histories, Writing</td>
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<td>ENG 5580H</td>
<td>American Pastoral: Agriculture and Environment in Literary Imagination</td>
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<td>ENG 5581H</td>
<td>The Idea of the Modern</td>
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<td>ENG 5608H</td>
<td>Modernist Narrative, and Embodied Cognition</td>
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<td>ENG 5751H</td>
<td>Novelist and Terrorists</td>
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<tr>
<td>ENG 5787H</td>
<td>The Poetics of Haunting in Canadian Fiction</td>
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<td>ENG 5810H</td>
<td>Rethinking Literary History: South Asian Writing in English</td>
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<td>ENG 5905H</td>
<td>Introduction to African-Canadian Literature</td>
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<td>ENG 5963H</td>
<td>James Joyce: Modernism, Modernity, Mythology</td>
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<td>ENG 6043H</td>
<td>Introduction to Contemporary Literary Theory</td>
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<td>ENG 6044H</td>
<td>The Literature of Protection</td>
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<tr>
<td>ENG 6056H</td>
<td>Ideologies</td>
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<tr>
<td>ENG 6062H</td>
<td>The Human Condition: Arendt, Adorno, Derrida, Kristeva</td>
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<tr>
<td>ENG 6065H</td>
<td>Repetition in Modern Thought and Culture</td>
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<tr>
<td>ENG 6154H</td>
<td>Race and Cinema</td>
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<tr>
<td>ENG 6160H</td>
<td>The Politics of Poetic Form: Studies in Poetics</td>
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<tr>
<td>ENG 6163H</td>
<td>The Fate of Culture in an Age of Globalization</td>
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<tr>
<td>ENG 6193H</td>
<td>Communities of Readers</td>
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<tr>
<td>ENG 6200H</td>
<td>The World is Too Much With Us: Witnessing and Creativity in Contemporary Long-Form Reporting</td>
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<td>ENG 6223H</td>
<td>The Text of Donne: The Variorum Donne</td>
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<td>ENG 6362H</td>
<td>History and Structure of the English Language: Post-1500</td>
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<td>ENG 6496H</td>
<td>Spatializing Marxism: the Postmodern “Spatial Turn”</td>
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<td>ENG 6522H</td>
<td>Transnational Masculinity in Literature and Culture</td>
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<td>ENG 6525H</td>
<td>Environmental Criticism and Postcolonial Discourse</td>
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<tr>
<td>ENG 6546H</td>
<td>Literature and the Resistance to Being</td>
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<tr>
<td>ENG 6530H</td>
<td>Death in Theory</td>
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<tr>
<td>ENG 6817H</td>
<td>Text, Context, Intertext: the Touch of Evil Project</td>
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<tr>
<td>ENG 6842H</td>
<td>The Culture and Politics of Emotion Theory</td>
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<tr>
<td>ENG 6860H</td>
<td>Authoring</td>
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<tr>
<td>ENG 6950Y</td>
<td>Workshop in Creative Writing</td>
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<tr>
<td>ENG 6951H</td>
<td>The Pragmatics of Writing Biography</td>
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</tbody>
</table>
Degree and Diploma Programs by Graduate Unit

**ENG 6954H** Studies in Bibliography
**ENG 6999Y** Critical Topographies: Theory and Practice of Contemporary Literary Studies in English
**ENG 8000H** Texts, Theories, and Archives
**ENG 9500H** Professional Development
**ENG 9900H** Professing Literature

**Graduate Faculty**

**Full Members**

Ackerman, Alan - MA, PhD
Akbari, Suzanne - BA, MA, MPH, PhD
Astoning, John - BA, MA, PhD
Bewell, Alan - MA, PhD (Chair and Graduate Chair)
Bolus-Reichert, Christine - BPhil, AM, PhD
Clarke, George Elliott - PhD
Cobb, Michael - BA, MA, AM, PhD
Columpar, Corinn - BA, PhD
Cormann, Brian - AB, AM, PhD
Cuddy-Keane, Melba - BA, MA, PhD
de Quehen, A Hugh - BA, BA, PhD
DeLambard, Jeannine - AB, AM, AM, DPhil
Dickie, Simon - BA, MA, PhD
Dolan, Neal - BA, PhD
Downes, Paul - PhD
Dubois, Andrew - BA, PhD
Esch, Deborah - PhD
Esowanwe, Uzoma - BA, MA, PhD
Fenwick, Gillian - PhD
Galbraith, David - MA, PhD
Gillespie, Alexandra - BA, BSc, PhD
Goldman, Marlene Beth - BFA, MA, PhD
Greene, Richard - PhD
Harvey, Elizabeth - PhD
Healey, Antonette - BA, MA, PhD
Henderson, Greig - BA, MA, PhD
Hill, Colin - BA, MA, PhD
Jackson, Heather - BA, MA, PhD
Jaffe, Audrey - BA, PhD
Justice, Daniel - BA, MA, PhD
Kanaganayakam, Chelvanayakam (Chelva) - PhD
Keymer, Thomas - BA, MA, PhD
Klausner, David - AB, PhD
Lamb, Susan - BA, AM, DA
Lancashire, Anne - BA, AM, PhD
Lancashire, D Ian - BA, MA, PhD
Landon, Richard - BA, BLS
Leonard, Garry - BA, MA, PhD
Levene, Mark - BA, MA, PhD
Levenson, Jill - PhD
Li, Hao - BA, PhD
Li, Victor - BA, MA, PhD
Lopez, Jeremy - BA, MA, DPhil
Lynch, Deirdre - BA, PhD
Magnarsson, Lynne - BA, MA, PhD
Matus, Jill - BA, MA, PhD
McLeod, Randall - AB, MA, PhD
Morgenstern, Naomi - BA, MA, PhD
Most, Andrea - BA, MA, PhD
Mount, Nick - AM, PhD
Murray, Heather - BA, MA, PhD
Nyquist, Mary - BA, MA, PhD
Orchard, Andrew - DPhil, PhD
Patrick, Julian - PhD
Percy, Carol - BA, MA, DPhil
Quayson, Ato - BA, PhD
Reibetanz, John - PhD
Robins, William - BA, MPH, PhD
Ruti, Marjut - BA, MA, PhD
Salih, Sara - BA, DPhil
Sammond, Nicholas - BA, MA, PhD
Schmitt, Emmett - BA, MA, PhD
Seitler, Dana - BA, MA, PhD
Solecki, Samuel - BA, MA, PhD
Stevens, Paul - BA, MA, PhD
Sullivan, Rosemary - BA, MA, PhD
Syme, Holger Schott - BA, AM, PhD
Ten Kortenaar, Neil - PhD
Thomson, H. Leslie - BA, MA, PhD
Townsend, David Robert - BA, MA, PhD
Warley, Christopher - BA, MA, DPhil
Weisman, Karen - BA, PhD
White, Daniel - BA, AM, DPhil
Wilson, Sarah - BA, MA, PhD
Woodland, Malcolm - BA, MA, PhD

**Members Emeriti**

Adamowski, Thomas - PhD
Allen, Peter - BA, MA, PhD
Asals, Frederick - AB, MA, PhD
Auster, Henry - BA, MA, PhD
Baird, John - PhD
Bentley (Jr), Gerald - BA, BLitt, DPhil
Brown, Russell - BA, MA, PhD
Bruckmann, Patricia - PhD
Cameron, Elspeth - BA, MA, PhD
Chamberlin, J Edward - BA, PhD
Chambers, Douglas - PhD
Cook, Eleanor - PhD
de Groot, Hans - MA, PhD
Domville, Eric William - BA, PhD
Duffy, Dennis - AB, MA, PhD
Dutka, JoAnna - BA, MA, PhD, Assoc Royal Conserv Tor
Flahiff, Frederick - BA, PhD
Graziani, René - BA, MA, PhD
Halewood, William - AB, MA, PhD
Harvey, Elisabeth Ruth - PhD
Hayne, Barrie - BA, AM, PhD
Howard, William - BA, PhD
Hutcheon, Linda - MA, PhD
Jackson, James - BA, AM, PhD, PhD
Johnston, Alexandra - PhD
Kirkham, Michael - BA, MPH
Leggatt, Alexander - BA, MA, PhD
Macpherson, Jay - PhD
Marker, Frederick - AB, DFA
Millgate, Jane - PhD
Milligate, Michael - BA, MA, PhD
Parker, Brian - PhD
Redekop, Magdalene - BA, MA, PhD
Rigg, Arthur George - BA, MA, DPhil
Saddler, Ann - PhD, DLITT
Sidnell, Michael - BA, MA, PhD
Stock, Brian - AB, PhD

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Degree and Diploma Programs by Graduate Unit

Vicari, E Patricia - BA, MA, PhD
Visser, Colin - BA, BLitt, PhD
Warkentin, Germaine - PhD

Associate Members
Baker, Deirdre - BA, MA, PhD
Blayney, Peter - BA, PhD
Campbell, Christian - BA, MPH, PhD
Dooley, Ann - BA, MA, PhD
Larson, Katherine - BMus, AB, MPH, PhD
MacLean, Sarah - BA, MA, PhD
Maurice, Alice - BA, DPhil
McGill, Robert - PhD
Radovic, Stanka - PhD
Rubright, Marjorie - AB, MA, DLITT
Stern, Simon - BA, PhD, JD
Suzack, Cheryl - PhD
Switzky, Lawrence - BA, MA, PhD
Vernon, Karina Joan - BA, MA, PhD
Xie, Ming - PhD
European, Russian, and Eurasian Studies

Faculty Affiliation
Arts and Science

Degree Programs Offered
European, Russian, and Eurasian Studies – MA, JD/MA

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Ethnic and Pluralism Studies
   • European, Russian and Eurasian Studies, MA
2. Jewish Studies
   • European, Russian and Eurasian Studies, MA

Overview
The Master of Arts program in European, Russian and Eurasian Studies (MA ERES) is designed to provide a well-rounded education in European, Russian and Eurasian affairs for students who wish to pursue professional, non-academic careers in areas such as government and diplomacy, journalism, business, and teaching. The programs also enrich and broaden the base of knowledge of beginning graduate students considering any PhD-level study with a specialisation in the European, Russian and Eurasian area.

The Combined Juris Doctor/Master of Arts Program provides specialised professional training for those seeking a career in law in the changing environment of the post-communist world. Firms selling or manufacturing in the region need the services of well-informed specialists who can navigate the legal pitfalls of emergent legal systems and deal with lawyers and government officials in the area. Best equipped to meet this demand are people with dual expertise in Law and European, Russian and Eurasian Studies.

Contact and Address
Web: www.utoronto.ca/ceries
Email: cieres.admin@utoronto.ca
Telephone: (416) 946-8938
Fax: (416) 946-8939
Centre for European, Russian, and Eurasian Studies
Munk School of Global Affairs
University of Toronto
Room 125N, 1 Devonshire Place
Toronto, Ontario M5S 3K7
Canada

Degree Programs

European, Russian, and Eurasian Studies

Master of Arts

Minimum Admission Requirements
• Applicants are accepted under the General Regulations of the School of Graduate Studies.
• At least some of the work in the program is based on the study of original texts and presupposes a reading knowledge of a language relevant to the program. Applicants should have a minimum of one academic year of study in a relevant language and are urged to undertake additional language training in the summer preceding entry to the program.

Program Requirements
• Minimum of two sessions of full-time graduate study.
• Students will be required to take 6.0 full-course equivalents (FCEs) as follows:
  ○ 2.0 FCEs in a discipline chosen by the student as his or her major discipline.
  ○ ERE 2001H, taken in the first year of the program.
  ○ ERE 2000Y, the interdisciplinary core course, taken in the second year of the program. As part of ERE 2000Y, each student must write a 30- to 40-page master’s essay, based on original research.
  ○ The remaining 2.5 FCEs must be drawn from at least two disciplines other than the major discipline.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Combined Juris Doctor/Master of Arts (European, Russian, and Eurasian Studies)

Minimum Admission Requirements
• Applicants must separately apply to and be accepted by both the JD program and the MA (European, Russian, and Eurasian Studies) programs. They must satisfy the normal admission requirements for each program.
• Applicants who have completed a year in the European, Russian, and Eurasian Studies master’s program or the first year of the JD can apply for admission to the combined program.
Program Requirements

- Year 1: Students are admitted to the Faculty of Law and receive deferred admission to the MA program in European, Russian, and Eurasian Studies. The first year of study will consist of requirements for the first year of the JD.
- Years 2, 3, and 4: Students pursue credits in Law as well as in European, Russian, and Eurasian Studies. The program allows students to receive the combined degree in four years of study instead of the five years needed to take the degrees separately.

Time Limit: 4 years full-time

Course List

Not all courses are offered every year. Consult the centre and individual departments for course availability. Consult the centre’s Graduate Coordinator for course credit eligibility.

The notation (PR) following a course indicates the course has a prerequisite.

Required
- ERE 2000Y Research Seminar
- ERE 2001H Gateway Pro-Seminar to European, Russian, and Eurasian Studies

Optional

Anthropology

For a full listing of courses, see the Anthropology entry in this calendar.
- ANT 5146H Colonial and Postcolonial Discourses
- ANT 6020H The Political Economy of Global/Local Dialectics
- JSA 5147H Language, Nationalism and Post-Nationalism

Comparative Literature

For a full listing of courses, see the Comparative Literature entry in this calendar.
- COL 5027H Memory, Trauma, and History
- COL 5031H Russian Avant-garde Concepts in Art and Literature: Symbolism, Futurism, Constructivism, Formalism

Economics

For a full listing of courses, see the Economics entry in this calendar.
- ERE 1198H Europe’s Eastward Enlargement

Germanic Languages and Literatures

For a full listing of courses, see the Germanic Languages and Literatures entry in this calendar.
- GER 1200H Middle High German
- GER 1300H Cultural History of the German Language
- GER 1470H Goethe in Context
- GER 1661H Modernism in Context
- GER 1772H The Politics of the Non-fiction Film
- GER 1780H Topics in German Visual Culture
- GER 1830H Topics in German Intellectual History
- JGC 1660H Modernism and the Other
- JGC 1750H Modernity and Its Discontents

History

For a full listing of courses, see the History entry in this calendar.
- ERE 1186H The Past As Prologue: East Central and Southeastern Europe in the Interwar Period
- ERE 1191H Contemporary Southeastern Europe
- HIS 1279H World War II in East Central Europe (joint graduate/undergraduate)
- HIS 1280Y History and Soviet Cinema (joint graduate/undergraduate)
- HIS 1281H History of Real Socialism
- HIS 1282H Totalitarian Culture
- HIS 1283H Crusades, Conversion and Colonization in the Medieval Baltic (joint graduate/undergraduate)
- HIS 1284H The Baltic World
- HIS 1285Y The Ukrainian National Revival
- HIS 1287H Polish Jews Since the Partitions of Poland
- HIS 1288H Age of Experiments
- HIS 1291H Topics in Russian and Soviet Social History
- HIS 1292H The Russian Revolution
- HIS 1293Y Kievian Rus’
- HIS 1294H In the Soviet Archives: Text and History (joint graduate/undergraduate)
- HIS 1295H Soviet History Seminar
- HIS 1297H Problems of Political Survival in Eastern Europe Since 1848
- HIS 1298H Problems in the Social and Cultural History of Imperial Russia
- HIS 1299H Topics in Russian Intellectual History
- JHP 1280Y Twentieth-Century Ukraine
- JHP 2301Y Linguistic and Cultural Minorities in Europe (joint graduate/undergraduate)

Political Science

For a full listing of courses, see the Political Science entry in this calendar.
- ERE 1184H Polls and Public Opinion in Post-Communist Countries
- ERE 1188H European Identities: Ethnicity, Citizenship, and Culture
- ERE 1192H Majorities and Minorities in Southeastern Europe
- ERE 1194H State and Society in Post-Soviet Central Asia
- ERE 1195H Topics in Ukraine and Eastern Europe
- ERE 1199H Security, Sovereignty, and Great Power Politics in Central Asia
### Degree and Diploma Programs by Graduate Unit

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<tbody>
<tr>
<td>ERE 2001H</td>
<td>Gateway Pro-Seminar to European, Russian and Eurasian Studies</td>
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<tr>
<td>JHP 1289Y</td>
<td>Twentieth-Century Ukraine</td>
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<tr>
<td>JHP 2301Y</td>
<td>Linguistic and Cultural Minorities in Europe</td>
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<tr>
<td>POL 2004Y</td>
<td>Marxism</td>
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<td>POL 2304Y</td>
<td>Soviet and Post-Soviet Politics</td>
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<td>POL 2306Y</td>
<td>Politics and Government of Eastern Europe</td>
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<td>POL 2324H</td>
<td>Ethnonationalism and State-Building: The Communist and Post-Communist Experience</td>
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<td>POL 2325Y</td>
<td>The Politics of Post-Communism</td>
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### Slavic Languages and Literatures

For a full listing of courses, see the Slavic Languages and Literatures entry in this calendar.

#### Croatian and Serbian Literatures

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<th>Course Title</th>
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<tr>
<td>SLA 1507H</td>
<td>Modern Croatian Bards</td>
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<td>SLA 1517H</td>
<td>Modern Serbian Bards</td>
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<td>SLA 1520H</td>
<td>Bosnia in Literature and Culture: Between Croats and Serbs</td>
</tr>
<tr>
<td>SLA 1521H</td>
<td>Topics in Modern Croatian Literature</td>
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<tr>
<td>SLA 1522H</td>
<td>The Modern Serbian Novel</td>
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<tr>
<td>SLA 1537H</td>
<td>Political Drama from Dubrovnik to the Danube</td>
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<td>SLA 1547H</td>
<td>South Slavic Folklore</td>
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#### Czech and Slovak Literatures

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<td>Studies in Czech and Slovak Literatures</td>
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<tr>
<td>SLA 1601Y</td>
<td>Modern Czech Fiction</td>
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<tr>
<td>SLA 1603Y</td>
<td>Readings in Czech/Russian Literary Theory</td>
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<tr>
<td>SLA 1604Y</td>
<td>History of the Czech Literary Language</td>
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<tr>
<td>SLA 1605Y</td>
<td>Modern Czech Drama and Theatre</td>
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<td>SLA 1606H</td>
<td>Czech Short Story</td>
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#### Estonian Literature

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<tr>
<td>SLA 1420Y</td>
<td>Estonian National Identity</td>
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<tr>
<td>SLA 1421Y</td>
<td>Women in East European Fiction</td>
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#### Polish Literature

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<tr>
<td>SLA 1304H</td>
<td>Staging God, Man, and History: Polish Drama and Theatre in Context</td>
</tr>
<tr>
<td>SLA 1305Y</td>
<td>Polish Fiction or A Disrupted Funeral of the Novel</td>
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<tr>
<td>SLA 1306H</td>
<td>Polish Poetry: Shaping the National Canon</td>
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<tr>
<td>SLA 1307H</td>
<td>Studies in Polish Poetry: Twentieth Century</td>
</tr>
<tr>
<td>SLA 1308Y</td>
<td>Topics in Polish Literature</td>
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<tr>
<td>SLA 1310H</td>
<td>Revolutions in the Theatre: Slanislawski, Meyerhold, Grotowski, and Kantor</td>
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<tr>
<td>SLA 1312Y</td>
<td>Modernism and Postmodernism in Polish Literature in the Twentieth Century and Beyond</td>
</tr>
<tr>
<td>SLA 1331H</td>
<td>Imagining “The Other” in Polish Literature and Culture</td>
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#### Russian Literature

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>SLA 1201Y</td>
<td>Studies in the Russian Novel</td>
</tr>
<tr>
<td>SLA 1203Y</td>
<td>Studies in Russian Modernism</td>
</tr>
<tr>
<td>SLA 1204H</td>
<td>Contemporary Russian Literature</td>
</tr>
<tr>
<td>SLA 1205H</td>
<td>Literary Scandals in Twentieth-Century Russia</td>
</tr>
<tr>
<td>SLA 1210H</td>
<td>Studies in Medieval Russian Literature</td>
</tr>
<tr>
<td>SLA 1211Y</td>
<td>Studies in the Russian Drama: Eighteenth to Twentieth Centuries</td>
</tr>
<tr>
<td>SLA 1212H</td>
<td>Gogol</td>
</tr>
<tr>
<td>SLA 1215H</td>
<td>Studies in Russian Literature of the Eighteenth Century</td>
</tr>
<tr>
<td>SLA 1225H</td>
<td>Russian Literature and Criticism in the 1860s</td>
</tr>
<tr>
<td>SLA 1230Y</td>
<td>Russian Emigre Literature, 1917–1945</td>
</tr>
<tr>
<td>SLA 1231H</td>
<td>Twentieth Century Russian Prose I: Modernism, Avant-garde, Totalitarianism</td>
</tr>
<tr>
<td>SLA 1232H</td>
<td>Russian Symbolism</td>
</tr>
<tr>
<td>SLA 1233H</td>
<td>Studies in Russian Modernism</td>
</tr>
<tr>
<td>SLA 1234H</td>
<td>Dostoevsky</td>
</tr>
<tr>
<td>SLA 1235H</td>
<td>Pasternak</td>
</tr>
<tr>
<td>SLA 1236Y</td>
<td>Pushkin</td>
</tr>
<tr>
<td>SLA 1237H</td>
<td>Twentieth-Century Russian Prose II: Internal and External Exile</td>
</tr>
<tr>
<td>SLA 1238H</td>
<td>Chekhov</td>
</tr>
<tr>
<td>SLA 1239H</td>
<td>Vladimir Nabokov's American Novels</td>
</tr>
<tr>
<td>SLA 1240H</td>
<td>L. Tolstoy</td>
</tr>
<tr>
<td>SLA 1243H</td>
<td>Leskov</td>
</tr>
<tr>
<td>SLA 1250H</td>
<td>Russian Journalism: 1830–1860, The Formative Decades</td>
</tr>
<tr>
<td>SLA 1251H</td>
<td>Pushkin and His Age</td>
</tr>
<tr>
<td>SLA 1900Y</td>
<td>Russian Poetry (for MA students only)</td>
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</tbody>
</table>

#### Ukrainian Literature

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SLA 1039Y</td>
<td>Kyiv-Kiev-Kijow: A City Through Cultures and Centuries</td>
</tr>
<tr>
<td>SLA 1402Y</td>
<td>Studies in Ukrainian Modernism</td>
</tr>
<tr>
<td>SLA 1403Y</td>
<td>Studies in Contemporary Ukrainian Literature</td>
</tr>
<tr>
<td>SLA 1404Y</td>
<td>Studies in Ukrainian Poets</td>
</tr>
<tr>
<td>SLA 1405Y</td>
<td>Experiments in Ukrainian Prose</td>
</tr>
<tr>
<td>SLA 1406Y</td>
<td>Studies in Ukrainian Literary Criticism</td>
</tr>
<tr>
<td>SLA 1407H</td>
<td>Aspects of Literary Translation of Ukrainian</td>
</tr>
<tr>
<td>SLA 1408H</td>
<td>Taras Shevchenko</td>
</tr>
<tr>
<td>SLA 1409H</td>
<td>Ukrainian Literature of the Seventeenth and Eighteenth Centuries</td>
</tr>
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#### Slavic Linguistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SLA 1101Y</td>
<td>History of the Russian Language (PR)</td>
</tr>
<tr>
<td>SLA 1102Y</td>
<td>Advanced Russian Language Skills</td>
</tr>
<tr>
<td>SLA 1103H</td>
<td>Comparative South Slavic Linguistics</td>
</tr>
<tr>
<td>SLA 1104Y</td>
<td>Old Church Slavonic</td>
</tr>
<tr>
<td>SLA 1105Y</td>
<td>Structure of Russian</td>
</tr>
<tr>
<td>SLA 1106H</td>
<td>Proseminar in Diachronic Slavic Linguistics</td>
</tr>
<tr>
<td>SLA 1107H</td>
<td>Comparative West Slavic Linguistics</td>
</tr>
<tr>
<td>SLA 1108H</td>
<td>Slavic Dialectology</td>
</tr>
<tr>
<td>SLA 1109H</td>
<td>Old Church Slavonic Translation Technique</td>
</tr>
<tr>
<td>SLA 1110H</td>
<td>Comparative Historical Slavic Linguistics</td>
</tr>
<tr>
<td>SLA 1112H</td>
<td>Tense, Aspect, and Mood in Slavic</td>
</tr>
<tr>
<td>SLA 1141H</td>
<td>History of the Ukrainian Language</td>
</tr>
<tr>
<td>SLA 1142H</td>
<td>Style and Structure of Ukrainian</td>
</tr>
<tr>
<td>SLA 1150H</td>
<td>Russian Since the Revolution</td>
</tr>
</tbody>
</table>
Degree and Diploma Programs by Graduate Unit

SLA 1160H  Proseminar in Synchronic Slavic Linguistics
SLA 1161H  An Introduction to Areal Linguistics: The Balkan Sprachbund

General Slavic
SLA 1036H  Metamorphosis of Modernity in Central Europe
SLA 1037Y  Theatre and Cinema in Extremis: Staging Twentieth-Century Aesthetics and Politics
SLA 1038H  Magic Prague

Reading and Research Courses
ERE 1997Y  Reading and Research III
ERE 1998H  Reading and Research I
ERE 1999H  Reading and Research II

For further information about graduate programs and study grants, please contact the Director.

Graduate Faculty

Full Members
Ambros, Veronika - MA, PhD
Austin, Robert - BA, MA, PhD
Barnes, Christopher - BA, MA, PhD
Batheit, Harald - MA, PhD
Bergen, Doris - MA, PhD
Bodemann, Michal - MA, PhD
Braun, Aurel - BA, MA, PhD
Brym, Robert - BA, MA, PhD
Day, Richard - BA, MA, PhD
Dimnik, Martin - BA, MA, MDiv, DPhil
Fenner, Angelica - BA, MA, PhD
Friedmann, Harriet - AB, MA, PhD
Goetschel, Willi - PhD
Hansen, Randall - BA, MPH, PhD, Canada Research Chair
Johnson, Robert - BA, PhD
Kivimae, Juri - AM, PhD
Knop, Karen - BSc, LLB, LLM, SJD
Komaromi, Ann - MA, DPhil
Kopstein, Jeffrey - BA, MA, PhD
Koznarsky, Tamas - MA, PhD
Kramer, Christina - BA, MA, PhD
Krementsov, Nikolai - PhD
Lahusen, Thomas - MA, PhD
Livak, Leonid - BA, AM, PhD
Magocsi, Paul - BA, MA, MA, PhD, Fell Royal Society Canada
Noyes, John - BA, MA, PhD
Orwin, Donna - PhD
Ostapchuk, Victor - BA, PhD
Penslar, Derek - BA, MA, PhD
Pruessen, Ronald - BA, MA, PhD
Retallack, James - BA, DPhil
Rossos, Andrew - BA, MA, PhD
Schallert, Joseph - PhD
Schwartz, Donald - BA, MA, PhD
Smith, Alison - AM, PhD (Coordinator of Graduate Studies)
Soldovieri, Stefan - AB, AM, DPhil
Solecki, Samuel - BA, MA, PhD
Stock, Markus - MA, PhD
Subtelny, Maria - BA, PhD
Tarnawsky, Maxim - BA, PhD
Trojanowska, Tamara - MA, PhD
Voila, Lynne - BA, MA, PhD
Wellman, Barry - BA, MA, PhD, PhD
Wittmann, Rebecca - AB, MA, PhD
Wrobel, Piotr Jan - MA, PhD
Zilcosky, John - BA, MA, MA, PhD

Members Emeriti
Bisztray, George - PhD
Dowler, E Wayne - BA, AM, PhD
Dyck, Harvey - BA, MA, PhD
Eddie, Scott - BS, PhD
Gregor, Richard - BA, MA, PhD
Griffiths, Franklyn Jc - BA, MA, PhD
Isajiw, Wsevolod - BA, MA, PhD
Lantz, Kenneth - BA, MA, PhD
Lindheim, Ralph - BA, MA
Solomon, Peter - BA, MA, PhD
Solomon, Susan - BA, MA, PhD

Associate Members
Jenkins, Jennifer - BA, MA, PhD
Klein, Edith - BA, MA, PhD
Korteweg, Anna - BA, MA, PhD (Acting Director)
Schatz, Edward - PhD
Schonberg, Michal - BA, MA, PhD
Way, Lucan Alan - BA, PhD
Exercise Sciences

Degree and Diploma Programs by Graduate Unit

Faculty Affiliation
Physical Education and Health

Degree Programs Offered
Exercise Sciences – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. **Addiction Studies**
   - Exercise Sciences, MSc, PhD
2. **Aging, Palliative and Supportive Care Across the Life Course**
   - Exercise Sciences, MSc, PhD
3. **Cardiovascular Sciences**
   - Exercise Sciences, MSc, PhD
4. **Health Services and Policy Research**
   - Exercise Sciences, MSc, PhD
5. **Sexual Diversity Studies**
   - Exercise Sciences, MSc, PhD
6. **Women and Gender Studies**
   - Exercise Sciences, MSc, PhD
7. **Women’s Health**
   - Exercise Sciences, MSc, PhD

Overview
The field of exercise sciences is interdisciplinary. The Graduate Department of Exercise Sciences offers Master of Science and Doctor of Philosophy programs for students interested in research, academic, and professional careers relating to:
1. Applied/exercise/environmental physiology
2. Metabolic and endocrinological aspects of physical activity
3. Motor control and motor learning
4. Muscle physiology
5. Physical fitness
6. Psychological aspects of sport and physical activity
7. Psychophysiological aspects of exercise and stress
8. Sociocultural aspects of sport and physical activity
9. Women’s health and physical activity

Contact and Address
Web: www.exs.utoronto.ca
Email: exs.fpeh@utoronto.ca
Telephone: (416) 978-6087
Fax: (416) 971-2118

Degree Programs

Exercise Sciences

Master of Science

Minimum Admission Requirements
- General Regulations of the School of Graduate Studies.
- Applications must be received by February 1.
- An appropriate bachelor’s degree with high academic standing from a recognized university, in physical education and health or a related discipline.

Program Requirements
- Successful completion of 2.5 full-course equivalents (FCEs) as follows. All courses must be approved in advance by the student’s supervisor and the Graduate Department of Exercise Sciences.
  - 0.5 FCE in exercise sciences from the student’s area of study
  - 0.5 FCE from the Exercise Sciences offerings
  - 0.5 FCE from another department
  - 0.5 FCE from either Exercise Sciences or another department
  - 0.5 FCE in an appropriate methodology
- A thesis written under the supervision of a thesis committee and its oral defence before an examination committee.
- The student’s annual program plan must be approved by the supervisor and the Graduate Department of Exercise Sciences.
- The Master of Science program may be taken part-time.

Normal Program Length: 6 sessions full-time; 12 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements
- General Regulations of the School of Graduate Studies.
• Completion of a MA or MSc with high academic standing from a recognized university, with a thesis in a related field.
• Provide satisfactory references pertaining to academic and research abilities.
• Applications must be received by February 1.

Program Requirements

Full-Time PhD
• Full-time registration (fall, spring, summer sessions) throughout the entire doctoral program.
• Successful completion of 3.0 full-course equivalents (FCEs) as follows.
  oo 0.5 FCE in exercise sciences from the student’s area of study
  oo 1.0 FCE from the Exercise Sciences offerings
  oo 0.5 FCE from another department
  oo 0.5 FCE from another Exercise Sciences or another department
  oo 0.5 FCE in an appropriate methodology
• All courses must be approved in advance by the student’s supervisor and the Graduate Department of Exercise Sciences.
• Successful completion of a comprehensive examination.
• Writing of a thesis under the supervision of a thesis committee (supervisor plus at least three additional faculty members) and its defence before an examination committee appointed by the Graduate Department of Exercise Sciences.
• Oral defence of the thesis before an examination committee appointed by the School of Graduate Studies.
• Student’s annual program plan must be approved by the supervisor and the Graduate Department of Exercise Sciences.

Flexible-Time PhD
• With the approval of the Associate Dean, Graduate Education and Research, some applicants may be admitted to a flexible-time PhD program. This program will benefit mature students with career and/or familial obligations.
• Degree requirements for the flexible-time program are identical to those listed above for the full-time PhD program; however, students have up to eight years to complete the program.
• A flexible-time student is required to register full-time for the first four years of the program. Thereafter, they may register part-time.
• A plan of study and research activities will be negotiated at initial registration, to be reviewed and updated annually.

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.

Normal Program Length: 4 years full-time; 6 years flexible-time
Time Limit: 6 years full-time; 8 years flexible-time

Course List

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>EXS 5502H</td>
<td>Aging and Functional Capacity: an Integrative Approach</td>
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<tr>
<td>EXS 5503H</td>
<td>Adaptations to Habitual Activity</td>
</tr>
<tr>
<td>EXS 5505H</td>
<td>Neuromotor Behaviour: Sensory Information Utilization During Goal-Directed Movements</td>
</tr>
<tr>
<td>EXS 5507H</td>
<td>Desire and Bodies in Place</td>
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<tr>
<td>EXS 5508H</td>
<td>Cardiovascular Disease and Exercise</td>
</tr>
<tr>
<td>EXS 5509H</td>
<td>Applied Muscle Physiology and Biochemistry</td>
</tr>
<tr>
<td>EXS 5510H</td>
<td>Qualitative Inquiry and Physical Cultural Studies</td>
</tr>
<tr>
<td>EXS 5513H</td>
<td>Current Issues in Exercise Psychology</td>
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<tr>
<td>EXS 5514H</td>
<td>Human Sensory and Motor Neurophysiology</td>
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<td>EXS 5515H</td>
<td>Research Methods in Physical Activity and Health</td>
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<td>EXS 5516H</td>
<td>Exercise Psychology</td>
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<tr>
<td>EXS 5518H</td>
<td>Theoretical Issues in the Sociocultural Study of Physical Activity and Health</td>
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<tr>
<td>EXS 5520H</td>
<td>Positive Psychology: Psychosocial Factors in Optimal Health and Wellness</td>
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<tr>
<td>EXS 5521H</td>
<td>Stress and Coping</td>
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<tr>
<td>EXS 7001H</td>
<td>Directed Reading in Exercise Sciences</td>
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<tr>
<td>EXS 7002H</td>
<td>Directed Research Project in Exercise Sciences</td>
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<td>JXP 5807H</td>
<td>Health Communications</td>
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Graduate Faculty

Full Members
Allison, Kenneth - MHSc, MSc, PhD
Atkinson, Michael - BA, MA, PhD
Chapman, Kenneth - MSc, MD
Corey, Paul - BSc, MA, PhD
Donnelly, Peter - BA, MS, PhD
Faulkner, Guy - BE, MSc, DPhil
Fernie, Geoffrey - BSc, PhD
Fusco, Caroline - BA, MSc, PhD
Goodman, Jack - BPHE, MSc, PhD
Heslegrave, Ronald - PhD
Jacobs, Ira - MD, PhD (Dean)
Kerr, Gretchen - BPHE, MA, PhD
Kidd, Bruce - BA, AM, MA, PhD
Leith, Larry - BA, MA, PhD
Lenskyj, Helen - BA, MA, PhD
Locke, Marius - BA, BSc, PhD
MacNeill, Margaret - BPHE, MA, PhD
Mainwaring, Lynda - BA, MHK, PhD
McKee, Nancy - MD
Plyley, Michael - PhD
Shek, Pang - BSc, MSc, PhD
Silverman, Frances - PhD
Thomas, Scott - BSc, MSc, PhD (Associate Dean, Graduate Studies)
Tremblay, Luc - BSc, MSc, PhD
Welsh, Timothy - BPHE

Members Emeriti
Radomski, Manny - PhD
Shephard, Roy - BSc, BS, MB, MD, PhD

Associate Members
Amara, Catherine - BSc, MSc, PhD
Sonnadara, Ranil - DPhil
Forestry

Faculty Affiliation
Forestry

Degree Programs Offered
Forest Conservation – MFC
Forestry – MScF, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Environmental Studies
   • Forest Conservation, MFC
   • Forestry, MScF PhD

Overview
The Faculty of Forestry offers degree programs leading to the Master of Forest Conservation (MFC), Master of Science in Forestry (MScF), and the Doctor of Philosophy (PhD).

The Master of Forest Conservation, the Faculty’s professionally-oriented master’s degree, is an intensive 16-month course-based program with a strong focus on field and laboratory practical training, Canadian and foreign residential field courses, practical internships and individual and group research. It provides a strong, coherent professional education in forest conservation to students from diverse backgrounds.

The Master of Science in Forestry and Doctor of Philosophy programs are research/thesis-based degrees in areas of specialization relevant to faculty expertise and funding including, but not limited to, forest conservation biology and wildlife ecology, forest biosphere science, invasive species and threats to forest health, environmental sustainability of managed forests, fire and ecosystem management, forest conservation planning, sustainable development and economics, political ecology and governance of forests, social and cultural ecology of forest ecosystems, urban forestry and forest biomaterials science and engineering.

The Faculty considers applicants from a variety of undergraduate backgrounds including forestry; applied science and engineering; and social, physical, and biological sciences.

Contact and Address
Web: www.forestry.utoronto.ca
Email: gradprog@forestry.utoronto.ca
Telephone: (416) 946-7952
Fax: (416) 978-3834

Degree Programs

Forest Conservation

Master of Forest Conservation

Minimum Admission Requirements

• General Regulations of the School of Graduate Studies.
• An appropriate bachelor’s degree or its equivalent from a recognized university with an average in the final two years of at least mid-B. The MFC program is intended for students with a strong undergraduate background in ecology, environmental sciences, forestry, natural sciences, biology, physical geography, geology, agricultural science, or relevant social sciences. Students from other disciplines will be considered by the Faculty but may be advised to take some appropriate background courses prior to admission.
• Additional documentation must be submitted to the department with completed application form, including transcripts, three references, a letter of interest in the MFC program, and a resume. Full instructions and forms are available via the Faculty’s website.

Program Requirements

• The program starts in September and requires full-time intensive involvement throughout.
• A core of 10 integrated half courses (5.0 FCEs), 4 elective half courses (2.0 FCEs), and an internship FOR 3007H (0.5 FCE) during the summer session in which students work on practical forest conservation projects, either in Canada or abroad. Elective course selection will include the successful completion of 1 field course (0.5 FCE) from either FOR 3011H, FOR 1585H or another related field course appropriate to the program and approved by the Graduate Coordinator. Enrolment in field courses outside of the Faculty of Forestry will be subject to the requirements and admission by the academic unit offering the course.
• It is also possible to earn the MFC degree through part-time studies. Information on specific course requirements and program schedules is included on the Faculty’s website.
Degree and Diploma Programs by Graduate Unit

Normal Program Length: 4 sessions full-time
Time Limit: 3 years full-time; 6 years part-time

Master of Science in Forestry

Minimum Admission Requirements

- General Regulations of the School of Graduate Studies.
- An appropriate bachelor’s degree or its equivalent from a recognized university, with a final-year average of at least mid-B. A minimum of B+ is required for the collaborative program.
- Additional documentation must be submitted to the department with completed application form, including transcripts, three references, a letter of intent, a resume, and a writing sample. Full instructions and forms are available via the Faculty’s website.

Program Requirements

- Program is prepared by the student in consultation with a supervisory committee and must be approved in sequence by the supervisory committee, the Graduate Committee of the Faculty of Forestry, and the School of Graduate Studies.
- Under exceptional circumstances, a part-time program may be arranged on application to and approval by the Faculty and the School of Graduate Studies.
- Minimal requirements for this degree are:
  - 12 months of residence including two academic sessions.
  - 1.5 FCEs, of which at least 0.5 FCE is taken within the Faculty, plus, in the case of students with non-forestry backgrounds, one of FOR 3000H, FOR 3002H, FOR 3003H, FOR 3004H, FOR 3009H, or FOR 3010H, on the recommendation of the student’s supervisory committee and approval of the Graduate Coordinator. Depending on the student’s background, additional or alternative coursework may be required.
  - Credit in FOR 1000H and FOR 1001H.
  - The preparation of a research thesis of acceptable quality and its oral defence.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Students are admitted to the four-year PhD program via one of three routes:
  - Master’s degree: an appropriate master’s degree or its equivalent from a recognized university with at least an A- standing, in a discipline appropriate to the intended field of doctoral study and research.
  - Direct entry: in exceptional circumstances, an extraordinarily strong applicant with an appropriate bachelor’s degree or its equivalent from a recognized university.
  - Transfer from MScF to PhD: under certain specific conditions, outstanding registered MScF students may be considered by the end of their first year in the MScF program for transfer to the PhD program.
- Applicants must submit additional documentation to the department with completed application form, including transcripts, three references, a letter of intent, a resume, and a writing sample. Full instructions and forms are available via the Faculty’s website.

Program Requirements

- Minimum PhD program requirements:
  - A minimum of four half courses (2.0 FCEs) must be taken. Depending on the student’s background and academic goals, additional or alternative coursework may be required by the student’s supervisory committee, including courses outside the Faculty of Forestry.
  - Credit in FOR 1000H and FOR 1001H.
  - Students approved for transfer from the MScF to the PhD are required to complete, as a minimum, the MScF course requirements (including FOR 1000H and FOR 1001H, plus 1.5 FCEs) plus 0.5 additional FCE.
  - For students with a non-forestry background, credit in one of FOR 3000H, FOR 3002H, FOR 3003H, FOR 3004H, FOR 3009H, or FOR 3010H, on the recommendation of the student’s supervisory committee and approval of the Graduate Coordinator.
  - Successful completion of a comprehensive examination. This will ordinarily be taken early in the second year of the program.
  - Preparation and defence of a thesis that is an original and independent research work adding significantly to the existing body of knowledge.
  - A full-time commitment is expected for a minimum of the first two years in the forestry program.

Normal Program Length: 4 years full-time; 5 years direct-entry; 5 years transfer-from-master’s
Time Limit: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master’s
Course List

The Faculty of Forestry offers the following courses. Courses in the 3000 number series are expected to be offered each year; 1000-level courses may be withdrawn in any particular year, depending on student interest/need and departmental resources. Students should consult the departmental brochure each session to confirm availability.

A maximum of one directed studies course taken with a student's supervisor can be credited toward meeting departmental degree program requirements.

FOR 1000H Research Methods in Forestry (Credit/No Credit)
FOR 1001H Graduate Seminar (Credit/No Credit)
FOR 1280H Wood Products and Processing
FOR 1282H Green Process Chemistry
FOR 1284H Adhesion Sciences and Applications
FOR 1288H Design and Manufacturing of Biomaterials
FOR 1294H Bioenergy and Biorefinery Technology
FOR 1321H Stand Structure and Dynamics
FOR 1331H Advanced Forest Entomology
FOR 1412H Natural Resource Management I (Directed Studies Course)
FOR 1413H Natural Resource Management II (Directed Studies Course)
FOR 1414H Forest Fire Management Systems
FOR 1415H Decision-Making in Forest Management
FOR 1416H Forest Fire Danger Rating
JFS 1460H Community Based Natural Resource Management
FOR 1555H Wildlife Ecology and Conservation
FOR 1570H Ecological Principles of Agroforestry
FOR 1575H Urban Forest Conservation
FOR 1585H Urban Forest Conservation Field Camp
FOR 1900H Advanced Topics in Forestry I (Directed Studies Course)
FOR 1901H Advanced Topics in Forestry II (Directed Studies Course)
FOR 3000H Current Issues in Forest Conservation
FOR 3001H Biodiversity of Forest Organisms
FOR 3002H Applied Forest Ecology and Silviculture
FOR 3003H Economics of Forest Ecosystems
FOR 3004H Forest Management Decision Support Systems
FOR 3005H Stresses in the Forest Environment
FOR 3006H Case Study Analysis in Forest Management
FOR 3007H Internship in Forest Conservation (Credit/No Credit)
FOR 3008H Research Paper in Forest Conservation
FOR 3009H Forest Conservation Biology
FOR 3010H Society and Forest Conservation

0 Course that may continue over a program. The course is graded when completed.
+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.

Graduate Faculty

Full Members
Carleton, Terence - BSc, MSc, PhD
Caspersen, John - BA, PhD
Cooper, Paul - BEd, BSc, MSc, PhD
Kant, Shashi - BE, MA, PhD
Malcolm, Jay - BSc, MSc, PhD
Martell, David - BASc, MASC, PhD
Price, Anthony - BSc, MSc, PhD
Sain, Mohini - PhD
Singh, Neera - BSc, MF, PhD
Smith, C. Tattersall - BA, MS, PhD
Smith, Sandy - BAgSc, MSc, PhD (Dean)
Thomas, Sean - BA, PhD
Yan, Ning - BSc, PhD, Reg Professional Engineer (Coordinator of Graduate Studies)

Members Emeriti
Aird, Paul - BSc, MS, PhD
Balantinecz, John - BSF, MF, PhD
Blake, Terence - DIPFOR, BSCF, STB, MF, PhD
Bryan, Ronke - BA, PhD
Hubbes, Martin - PhD
Nautiyal, Jagdish - BSc, MF, PhD
Roy, Dibyendu - BSc, MA, DPhil
Timmer, Victor - BSCF, MSCF, PhD

Associate Members
Bellocq, Isabel - BSc, MSc, PhD
Burgess, Darwin - BSCF, PhD
Burke, Dawn - BSc, PhD
Campbell, Malcolm - DPhil
Cole, William - BSCF, MSCF, PhD
Colombo, Stephen - BSCF, MSCF, PhD
Couto, Laercio - PhD
de Groot, W.J. - BSc, PhD
Drapeau, Pierre - BSc, MSc, PhD
Dumas, Michael - BSc, MSOF, PhD
Flannigan, Mike - BSc, MS, PhD
Fleming, Richard - BSc, PhD
Gordon, Andrew - PhD
Heyd, Darrick V - BSc, PhD
Jones, Trevor A - BSc, MSc, PhD
Kayahara, Gordon John - MSc, PhD
Kennedy, Andrew - BSc, MSc, PhD
Krigstin, Sally - MSc, PhD
Kuhlberg, Mark - MA, PhD
Laaksonen-Craig, Susanna - MSc, PhD
Maynard, Alex - BA, MA, MPH, PhD
McKenney, Daniel - BSc, MSc, PhD
Moola, Faisal - BSc, MSc, PhD
Morris, Dave - BSCF, MSCF, PhD
Nanang, David - BSc, MSCF, PhD
Navar, Jose de Jesus - BScF, MSCF, PhD
Naylor, Brian - BScF, PhD
Nol, Erica - BS, MSc, PhD
Oksman, Kristiina - MSc, PhD
Peng, Changhui - BSc, PhD
Ray, Justina - BS, MS, PhD
Regniere, Jacques - BSc, PhD
Richards, Evelyn - BSc, MSc, PhD
Sastry, Cherla - BSc, MSc, PhD
Schleifenbaum, Peter C. - PhD
Smith, Margaret Anne (Peggy) - BSc, PhD
Spiecker, Heinrich - MSc, PhD
Stocks, Brian - BSCF, MSCF
Thompson, Ian D. - BSc, MSc, PhD
Tjong, Jimi - BASc, MASc, PhD
Wang, Sen - BA, MSc, PhD
Wotton, Brian Michael - BSc, PhD
Wylie, Stephen - BSc, PhD
Zhang, S.Y. Tony - PhD
Zimmerman, Barbara - BSc, MSc, PhD
French Language and Literature

Faculty Affiliation
Arts and Science

Degree Programs Offered
French Language and Literature – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Book History and Print Culture
   • French Language and Literature, MA, PhD
2. Women and Gender Studies
   • French Language and Literature, MA, PhD

Overview
The Master of Arts program is both a self-contained program and the first stage towards doctoral studies. It has two objectives: (a) to allow the student to develop a thorough knowledge of the discipline through a program of coursework in French literary studies or linguistics and (b) to develop an aptitude for research. It is a 12-month program for full-time students. The program is available on a part-time basis.

The Doctor of Philosophy program engages students in a program of study and research in French Literature/Linguistics approved by the department.

At the beginning of their course of study, students meet individually with either the Associate Chair or Graduate Coordinator in order to determine course selection with a view to ensuring that the student has a well-rounded program and, considered in conjunction with the undergraduate degree, has a broad knowledge of the discipline.

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Telephone: (416) 926-2307
Fax: (416) 926-2328
Department of French Language and Literature
University of Toronto
50 St. Joseph Street
Toronto, Ontario M5S 1J4
Canada

Degree Programs

French Language and Literature

Master of Arts

Minimum Admission Requirements
Students are admitted under the General Regulations of the School of Graduate Studies in addition to the following departmental regulations:

- B+ average standing or better, with at least B+ in French. A B+ average does not automatically lead to admission.
- Competence in French.
- Concentration in French literature and/or linguistics, with a minimum of seven full courses, or equivalent, in French. A minimum of five of the seven full courses, or equivalent, should be in the proposed area of study (i.e., literature or linguistics).
- Admission is based upon the evidence of the supporting letters and the applicant’s academic record.

Program Requirements

- Prerequisite work, if necessary.
- Students in both literature and linguistics are required to complete four full-course equivalents as follows:
  - Students in literature take the graduate seminar in literature (FRE 1200Y) and
    • 3.0 full-course equivalents (FCEs) from the regular graduate course offerings; or
    • 2.5 FCEs and the 0.5-FCE FRE 5001H Research Essay, a memoire of approximately 35 pages; or
    • 2.0 FCEs and the 1.0-FCE FRE 5000Y Research Essay, a 65- to 75-page memoire.
  - Students in linguistics take the graduate seminars in linguistics (FRE 1103H, FRE 1104H, and FRE 1125H) and
    • 2.5 FCEs from the regular graduate offerings; or
    • 2.0 FCEs and the 0.5-FCE FRE 5001H Research Essay, a memoire of approximately 35 pages; or
    • 1.5 FCEs and the 1.0-FCE FRE 5000Y Research Essay, a 65- to 75-page memoire.
- Students must maintain a B average in order to be recommended for the degree and must obtain a minimum of mid-B in the Research Essay if taken. Students must also obtain a minimum of mid-B for the graduate seminar in literature (FRE 1200Y) or the graduate seminars in linguistics (FRE 1103H, FRE 1104H, and FRE 1125H).
- Up to 1.0 FCE may be taken outside the department.
• Normally, part-time students take the graduate seminar in literature or the graduate seminars in linguistics during the first year of their programs.

Normal Program Length: 4 sessions full-time; 5 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

Students are admitted under the General Regulations of the School of Graduate Studies, in addition to the following departmental regulations:

• Admission to the PhD program is available via one of two routes:
  o an appropriate bachelor’s degree with high academic standing from a recognized university that includes at least seven full-course equivalents (FCEs) in French language and literature/linguistics, with an average grade of at least an A- in the overall program. Admission is limited to exceptionally qualified applicants.
  o an appropriate master’s degree in French literature or linguistics with high academic standing from a recognized university, with an average grade of at least an A- in the applicant’s overall program.

• An A- average does not automatically lead to admission.

• A formal application and a sample of written work in French completed as part of the applicant’s bachelor’s or master’s program in French literature or linguistics as appropriate. This written work should be a copy of the MA thesis if available.

• Applicants holding a master’s degree must submit a statement of purpose (maximum 500 words) in French that clearly outlines the area in which the applicant intends to pursue research in French literature or linguistics.

• Applicants must satisfy the department that they are capable of independent research in French literature or linguistics at an advanced level.

• Admission to all programs for post-graduate degrees is based on the evidence of the supporting letters and the applicant’s academic record.

Program Requirements

• Coursework.

• A student admitted on the basis of an appropriate bachelor’s degree must complete 4.0 FCEs during the first year of the program and 3.5 additional FCEs during the second year. With the department’s permission, the student may take up to one full-course equivalent in the first year of the program, and one full-course equivalent in the second year, outside the department. Students in literature take FRE 1200Y and FRE 1201H as part of their program; students in linguistics take FRE 1103H, FRE 1104H, FRE 1125H, and FRE 1201H as part of their program. To remain in good academic standing and to continue in the PhD program, a student must complete 4.0 FCEs, with an average grade of at least an A-, by the end of the first year of the program and complete the remaining 3.5 FCEs, maintaining an average of at least an A-, by the end of the second year.

• A student admitted on the basis of an appropriate master’s degree must complete 3.5 FCEs during the first year of the program. With the department’s permission, the student may take one full-course equivalent outside the department. Students in literature take FRE 1200Y, unless this course or its equivalent has already been completed, and FRE 1201H as part of their program; students in linguistics take FRE 1103H, FRE 1104H, and FRE 1125H unless already completed, and FRE 1201H as part of their program. To remain in good academic standing and to continue in the PhD program, a student must complete 3.5 FCEs, with an average grade of at least an A-, by the end of the first year of the program.

• Thesis topic. By September 15 of the second year of registration, a student must register a thesis topic with the department. The proposal must be signed by the faculty member who has agreed to direct the thesis and by the two faculty members who will serve on the student’s supervisory committee.

• Language requirements. By the end of the first year of the PhD program, in the case of a student admitted to the PhD program on the basis of a master’s degree, otherwise by September 15 of the third year of registration, a student must register a thesis topic with the department. The proposal must be signed by the faculty member who has agreed to direct the thesis and by the two faculty members who will serve on the student’s supervisory committee.

• Field examination. No later than the second session of the second year of registration in the PhD program, the student must demonstrate a reading knowledge of Old French or of another language (excluding French or English), as approved by the department.

• Students in literature take FRE 1200Y, unless this course is already completed, and FRE 1201H as part of their program; students in linguistics take FRE 1103H, FRE 1104H, FRE 1125H, and FRE 1201H as part of their program. To remain in good academic standing and to continue in the PhD program, a student must complete 3.5 FCEs, with an average grade of at least an A-, by the end of the second year.

• A student admitted on the basis of an appropriate master’s degree must complete 3.5 FCEs during the first year of the program. With the department’s permission, the student may take one full-course equivalent outside the department. Students in literature take FRE 1200Y, unless this course or its equivalent has already been completed, and FRE 1201H as part of their program; students in linguistics take FRE 1103H, FRE 1104H, and FRE 1125H unless already completed, and FRE 1201H as part of their program. To remain in good academic standing and to continue in the PhD program, a student must complete 3.5 FCEs, with an average grade of at least an A-, by the end of the first year of the program.

• Thesis topic. By September 15 of the second year of registration, in the case of a student admitted to the PhD program on the basis of a master’s degree, otherwise by September 15 of the third year of registration, a student must register a thesis topic with the department. The proposal must be signed by the faculty member who has agreed to direct the thesis and by the two faculty members who will serve on the student’s supervisory committee.

• Language requirements. By the end of the first year of the PhD program, in the case of a student admitted to the PhD program on the basis of a master’s degree, otherwise by September 15 of the third year of registration, a student must register a thesis topic with the department. The proposal must be signed by the faculty member who has agreed to direct the thesis and by the two faculty members who will serve on the student’s supervisory committee.

• Field examination. No later than the second session of the second year of registration in the PhD program, the student must demonstrate a reading knowledge of Old French or of another language (excluding French or English), as approved by the department.

• Students in literature take FRE 1200Y, unless this course is already completed, and FRE 1201H as part of their program; students in linguistics take FRE 1103H, FRE 1104H, FRE 1125H, and FRE 1201H as part of their program. To remain in good academic standing and to continue in the PhD program, a student must complete 3.5 FCEs, with an average grade of at least an A-, by the end of the second year.

• A student admitted on the basis of an appropriate master’s degree must complete 3.5 FCEs during the first year of the program. With the department’s permission, the student may take one full-course equivalent outside the department. Students in literature take FRE 1200Y, unless this course or its equivalent has already been completed, and FRE 1201H as part of their program; students in linguistics take FRE 1103H, FRE 1104H, and FRE 1125H unless already completed, and FRE 1201H as part of their program. To remain in good academic standing and to continue in the PhD program, a student must complete 3.5 FCEs, with an average grade of at least an A-, by the end of the first year of the program.

• Thesis topic. By September 15 of the second year of registration, in the case of a student admitted to the PhD program on the basis of a master’s degree, otherwise by September 15 of the third year of registration, a student must register a thesis topic with the department. The proposal must be signed by the faculty member who has agreed to direct the thesis and by the two faculty members who will serve on the student’s supervisory committee.

• Language requirements. By the end of the first year of the PhD program, in the case of a student admitted to the PhD program on the basis of a master’s degree, otherwise by September 15 of the third year of registration, a student must register a thesis topic with the department. The proposal must be signed by the faculty member who has agreed to direct the thesis and by the two faculty members who will serve on the student’s supervisory committee.

• Field examination. No later than the second session of the second year of registration in the PhD program, the student must demonstrate a reading knowledge of Old French or of another language (excluding French or English), as approved by the department.

Degree and Diploma Programs by Graduate Unit

French Language and Literature
the student's readiness to proceed with thesis research.

- Between the completion of the field examination components and the oral examination on the thesis, the student will meet with the supervisory committee at least once a year, and more frequently if required.
- Thesis and doctoral final oral examination on the thesis.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

### Course List

#### Linguistics Courses

- FRE 1103H Séminaire de linguistique I: Phonétique et phonologie
- FRE 1104H Séminaire de linguistique II: Syntaxe
- FRE 1124H Syntaxe de l'ergativité : le français dans tous les cas
- FRE 1125H Séminaire de linguistique III: Morphologie et sémantique
- FRE 1129H Didactique du français langue seconde: quelle(s) méthode(s) pour quel(s) apprentissage(s)?
- FRE 1133H L'acquisition du français langue première
- FRE 1140H La syllabe : études expérimentales et théoriques

#### Linguistic and Literature Courses

- FRE 1201H Méthodes de recherche (Credit/No Credit)

#### Literature Courses

- FRE 1200Y Séminaire de littérature
- FRE 1612H Satire et parole libre dans la littérature des XVIe et XVIIe siècles
- FRE 1813H Littérature de contact et pensée anthropologique en France du XVIe au XVIIIe siècle
- FRE 1901H Le récit de voyage au XIXe siècle
- FRE 2004H Formes et voies romanesques de l’extrême contemporain
- FRE 2035H Autour de l’intime en France: les écrits contemporains des femmes
- FRE 2037H Écriture et folie
- FRE 2039H Roman et critique sociale aux XXe et XXIe siècles
- FRE 2078H Alterité : formes et significations
- FRE 2107H Le récit fantastique québécois : formes et transformations

#### Other Courses

- FRE 3004H Rencontres et compagnonnages au cœur de l’œuvre
- FRE 3005H Méthodologie de l’analyse du dialogue romanesque
- JFF 1100H Surrealism & French Cinema

#### Cross-listed Courses

##### Book History and Print Culture

- BKS 1000Y Book History and Print Culture
- BKS 2000H Advanced Seminar in Book History and Print Culture

##### Medieval Studies

- MST 3154H British History in French: Wace, Brut
- MST 3155H Chrétien de Troyes, Perceval

### Graduate Faculty

#### Full Members

- Bhatt, Parth - BA, MA, PhD
- Brousseau, Anne-Marie - PhD
- Clandfield, David - BA, MA, PhD
- Cozea, Angela - BA, MA, PhD
- Danesi, Marcel - BA, MA, PhD
- De Kerckhove, Derrick - BA, MA, PhD
- Elkabas, Charles - BA, MA, PhD
- Havercroft, Barbara - BA, MA, PhD
- Kullmann, Dorothea - PhD
- Le Huenen, Roland - DESL
- LeBlanc, Julie - BA, PhD
- Lord, Michel - BA, MA, PhD
- Massam, Diane - BA, MA, PhD
- Michelucci, Pascal - BA, MA, PhD (Associate Chair; Coordinator of Graduate Studies)
- Motsch, Andreas - PhD
- Ndayiragije, Juvenal - PhD
- Nikiema, Emmanuel - PhD
- Paterson, Janet - BA, MA, PhD
- Pirvulescu, Mihaela - MA, PhD
- Portebois, Yannick - BA, MA, PhD
- Riendeau, Pascal - BA, MA, PhD
- Roberge, Yves - BA, MA, PhD
- Steele, Jeffrey - BA, MA, PhD (Chair and Graduate Chair)
- Tcheuyap, Alexie - PhD (Coordinator, Graduate Admissions and Funding)

#### Members Emeriti

- Bertrand-Jennings, Chantal - LESL, PhD
- Boursier, Nicole - BLitt, DESL, PhD
- Cloutier-Wojciechowska, Cecile - BA, MA, LESL, DUP
- Dainard, Alan - BA, MA, PhD

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0 Course that may continue over a program. The course is graded when completed.
Degree and Diploma Programs by Graduate Unit

Falconer, Alexander - MA, DDELUN
Fitch, Brian - BA, PhD
Fitting, Peter - BA, PhD
Fleming, John - BA, MA, PhD
Grise, Catherine - BA, MA, PhD
Kerslake, Lawrence - PhD
Kushner, Eva - BA, MPH, PhD
McClelland, John Alan - PhD
Merrilees, Brian - PhD, Fell Royal Society Canada
Nesseroth, Peter - BA, MA, PhD
Perron, Paul - PhD
Shek, Ben-Zion - BA, MA, PhD
Smith, David - BA, PhD, PhD
Taylor, Robert - PhD
Tolton, Cameron - PhD
Wooldridge, Terence - BA, DDELUN

Associate Members
Ahmed, Maroussia - MA, LESL, DDELUN
Astoning, John - BA, MA, PhD
Auger, Julie - BA, MA, PhD
Baudot, Alain - DipdESup, LESL
Berube, Georges - BA, MA, PhD
Cahill, James - PhD
Cobb, Michael - BA, MA, AM, PhD
Cochelin, Isabelle - DipdESup, BA, MA, PhD
Colantoni, Laura - MA, PhD
Crosta, Suzanne - BA, MA, PhD
Cuervo, Maria Cristina - PhD
Glinoer, Anthony - BA, MA, PhD
Heller, Monica - BA, MA, PhD
Holtz, Gregoire - LESL, MA, DLITT
Irvine, Margot - MA, PhD
Jennings, Eric - BA, PhD
Labrie, Normand - BA, MA, PhD
Liakin, Denis - BA, MA, PhD
Mavrikakis, Catherine - BA, MA, PhD
Nagy, Naomi - BA, PhD
Perez-Leroux, Ana Teresa - MA, PhD
Pioffet, Marie-Christine - Blitt, MA, DLITT
Rosinski-Pellerin, Sylvie - BA, MA, MA, PhD
Roulston, Christine - BA, MA, PhD
Sarabia, Rosa - BA, PhD
Schallert, Joseph - PhD
Spada, Nina - BA, BA, MA
Teixeira, Carlos - BA, AB, AM
Ten Kortenaar, Neil - PhD
Thomson, Clive - BA, MA, PhD
Degree and Diploma Programs by Graduate Unit

Geography

Faculty Affiliation
Arts and Science

Degree Programs Offered
Geography – MA, MSc, PhD
Fields:
  Urban/Economic Geography
  Physical Geography & Natural Systems
  Environmental Geography & Resource Management
  Historical, Social, & Cultural Geography
  Spatial Information Systems
Planning – MScPl, PhD
Fields (MScPl):
  Urban Planning & Development
  Environmental Planning
  Social Planning & Policy
  Economic Planning & Policy
Urban Design
Fields (PhD):
  Cities in Global Context: Economic Development & Social Planning
  Environmental & Sustainability Planning
  Urban Development, Design, and the Built Environment
Urban Design Studies – MUDS

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Aboriginal Health
   • Geography, MA, MSc, PhD
2. Asia-Pacific Studies
   • Geography, MA, MSc
   • Planning, MScPl
3. Community Development
   • Planning, MScPl
4. Diaspora and Transnational Studies
   • Geography, MA, MSc, PhD
5. Environment and Health
   • Geography, MA, MSc, PhD
   • Planning, MScPl
6. Environmental Studies
   • Geography, MA, MSc, PhD
   • Planning, MScPl
7. Ethnic and Pluralism Studies
   • Geography, MA, PhD
8. South Asian Studies
   • Geography, MA, PhD
9. Women and Gender Studies
   • Geography, MA, MSc, PhD

Overview
The Department of Geography, which includes the program in Planning, offers facilities for research leading to the degrees of Master of Arts (MA), Master of Science (MSc), Master of Science in Planning (MScPl), and Doctor of Philosophy (PhD) in either Geography or Planning. The PhD program prepares students for academic careers in teaching and research. Some may also pursue an advanced career in the public or non-profit sectors, given the rising demand outside of academia for people with a PhD credential.

In Geography, faculty conduct research in the following areas: geomorphology, climatology, hydrology, biogeography, pedology, environmental assessment and sustainable natural resource management, international development, industrial innovation, urban and economic geography, cultural and historical geography, gender studies, social geography, regional analysis, the history and philosophy of geography, remote sensing, computer cartography, spatial statistics, topics in land/geographic information systems, and quantitative analysis. The territories of special concern are Canada, the United States, Latin America, the Caribbean, Northwestern and Central Europe, East Asia, South Asia, and the former Soviet Union.

In Planning, faculty work involves social, economic, cultural, and other vital considerations. In spatial scale, it ranges from the design of individual communities to policy planning at the national level to international development. Planning specializations include land use, transportation, urban design, social policy, public health, economic development, international development, and the environment.

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University of Toronto
Sidney Smith Hall
Room 5045, 100 St. George Street
Toronto, Ontario M5S 3G3
Canada
Degree Programs

Geography

Master of Arts and Master of Science

Minimum Admission Requirements

- Students are admitted under the General Regulations of the School of Graduate Studies.
- An appropriate bachelor's degree from a recognized university with a minimum standing equivalent to at least a University of Toronto B+ in the final two years.
- Applicants are expected to have completed at least 4.0 full-course equivalents (FCEs) in geography or a related field. Applicants lacking the minimum requirements should consider doing qualifying work at the undergraduate level prior to application. Such work should be undertaken in consultation with the Graduate Coordinator. Applicants who hold an appropriate bachelor’s degree but are changing disciplines or require further preparatory work, may be required to complete an additional year of graduate-level coursework.

Program Requirements

- Two geography programs and various collaborative programs are available; selection is made with the approval of the department. Within most of these programs, students may receive a Master of Science degree if their research contains a substantial physical science component and if two-thirds of their coursework comprises Geography courses accepted by the department as physical science courses.
- Progress into the second session is dependent on achieving an overall B average in the first session and satisfactory progress as outlined in the Graduate Geography Handbook.

Program I: Thesis. Students undertake research leading to the preparation of a thesis, in conjunction with at least the equivalent of 1.5 graduate FCEs including any required core courses.

Program II: Research Paper. Students will take the equivalent of 3.0 graduate FCEs and pursue a research project, normally during the summer, leading to the preparation of a research paper (GGR 1100Y).

Environmental Studies Research Paper (Collaborative MA/MSc Program) 2.5 FCEs, of which 1.5 FCEs must be taken in the Department of Geography (including the core course) and 1.0 at the Centre for Environment (0.5 FCE must be the CFE core course). Students are also required to undergo a three-month internship and to prepare and defend a research paper (GGR 1100Y). The program is normally completed in 12 months. See the Environmental Studies (collaborative program) entry in this calendar.

- Environmental Studies Thesis (Collaborative MA/MSc Program) 2.0 FCEs, of which 1.0 FCE must be taken in the Department of Geography and 1.0 FCE at the Centre for Environment. Students are also required to prepare and defend a thesis. See the Environmental Studies (collaborative program) entry in this calendar.

Normal Program Length: 3 sessions full-time; 6 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- Students are admitted under the General Regulations of the School of Graduate Studies.
- An appropriate master’s degree from a recognized university, with a minimum standing equivalent to at least a University of Toronto A-. In exceptional cases and at the discretion of the department, admission to the PhD program by direct entry may be approved for applicants with an overall A average and appropriate bachelor’s degree from a recognized university.

Program Requirements

- The PhD is primarily a research degree. A program of study is designed for each student to ensure competence in a field of research and to facilitate the preparation of a dissertation.
- Students must:
  - complete a minimum of 2.0 FCEs and, depending on the field of specialization, up to an additional 1.0 FCE. A minimum of 0.5 FCE must be, and a maximum of 1.5 FCEs may be, taken in other departments. (In exceptional cases, at the discretion of the department, graduate courses completed at the master’s level at the University of Toronto may be counted towards meeting some course requirements. Students who enter the PhD program from a bachelor's degree must complete 1.5 FCEs in addition to the doctoral coursework requirements. Applicants who hold an appropriate master's degree but are changing disciplines or require further preparatory work, may be required to complete an additional year of graduate-level coursework.)
  - submit a research statement concerning the proposed PhD topic and the scope of the PhD examination by the end of April in year one
○ pass a PhD examination in the general field in which research is being undertaken by the end of year one
○ upon the recommendation of their committee, be required to acquire a knowledge of a foreign language necessary for their research
○ submit a research proposal that is acceptable to their research committee by the end of the first session in year two

- Unless otherwise specified, two years of residence are required, during which the student is required to be on campus full-time and consequently in such geographical proximity as to be able to participate fully in the university activities associated with the program.
- PhD degree program requirements are fully described in the Graduate Geography Handbook and the department’s website.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List
The following graduate courses will be available on demand and subject to faculty resources. Not all courses are given every year, and some members of the graduate faculty are on research leave. Please consult the departmental graduate office. The 2000-level courses are normally open to PhD students only.

GGR 1100Y Research Paper (Credit/No Credit)
GGR 1110H Issues of Geographic Thought and Practice
GGR 1149H Readings in Selected Topics
GGR 2149H Readings in Selected Topics
GGR 2150H, Y Advanced Seminar in Selected Topics

Physical Geography
GGR 1200H Introduction to Physical Geography
GGR 1202H Sedimentation and Fluvial Geomorphology
JGE 1212H Fate of Contaminants in the Environment
GGR 1214H Global Ecology and Biogeochemical Cycles
GGR 1216H Advanced Biogeochemical Processes
GGR 1302H Advanced Hydrology and Water Quality
GGR 1303H Topics in Paleoenvironmental Research
GGR 1305H Biogeochemistry
GGR 1306H Measurement and Modelling of Surface Environments
GGR 1314H Topics in Physical Oceanography

Environmental and Resource Geography
JPG 1402H Environment and Development
JPG 1403H Political Ecology of African Environments
JPG 1404H Issues in Global Warming
JPG 1406H Energy Supply and Use
JPG 1407H Efficient Use of Energy
JPG 1408H Carbon-Free Energy
JPG 1410H Institutional and Organizational Ecology
JGE 1413H Workshop in Environmental Impact Assessment
JPG 1414H Cities as Ecosystems
JPG 1415H Global Environmental Justice and Social Movements
JPG 1416H Environmental Consequences of Land Use Change
JPG 1418H Rural Land Use Planning
JPG 1419H Aboriginal/Canadian Relations in Environmental and Resource Management
JGE 1420H Urban Waste Management: an International Perspective
JPG 1421H Health in Urban Environments
JPG 1423H Political Ecology of the Global Agrifood System
JPG 1424H Comparative Farming Systems
JPG 1508H Planning for the Urban Poor in Developing Countries

Urban and Economic Geography
JPG 1501H The Political Economy of Cities
JPG 1507H Housing and Housing Policy
JPG 1509H Feminism, Postcoloniality and Development
JPG 1510H Recent Debates on Urban Form
JPG 1512H Place, Politics and the Urban
JPG 1514H The Role of the Planner: Making a Difference
JPG 1516H Declining Cities
JPG 1554H Transportation and Urban Form
JPG 1556H Transportation Systems Analysis: An Exploration of Concepts, Methods, Applications, and Emerging Issues
JPG 1607H Geography of Competition
JGE 1609H Cities, Industry and the Environment
JPG 1614H Regional Development and Policy
JPG 1615H Planning and the Social Economy
JPG 1616H The Cultural Economy
JPG 1670H Regional Economic Analysis

Historical, Social, and Cultural Geography
JPG 1505H The Multicultural City: Diversity, Policy and Planning
JPG 1506H State/Space/Difference: Understanding the New Social Geography of the State
JPG 1672H Land Use and Justice
JPG 1702H Historical Urban Geography and Planning
GGR 1705H Historical Geographies of Modernity
JPG 1706H Violence & Security
JPG 1710H Historic Preservation Planning
JPG 1713H Place, Design, and Landscape
GGR 1714H Cultural and Critical Geographies
JPG 1802H Political Spaces I

0 Course that may continue over a program. The course is graded when completed.
Degree and Diploma Programs by Graduate Unit

Degree and Diploma Programs by Graduate Unit

Geography

JPG 1804H  Space, Power and Geography: Understanding Spatiality
JPG 1805H  Transnationalism, Diaspora and Gender
JPG 1815H  Political Economy, the Body, and Health

Geographical Information Analysis

JPG 1906H  Geographic Information Analysis
GGR 1907H  Advanced Geographic Information Systems
GGR 1911H  Remote Sensing
GGR 1912H  Advanced Remote Sensing
JPG 1914H  Spatial Information Systems
GGR 1922H  Topics in Geographical Information Science

Planning

Master of Science in Planning

Minimum Admission Requirements
- Students are admitted under the General Regulations of the School of Graduate Studies.
- An appropriate bachelor’s degree from a recognized university, with a minimum final-year standing in the social or life sciences, the humanities, or the professions, equivalent to at least a University of Toronto B+. Knowledge of introductory economics and statistics, as well as word processing and spreadsheet skills, is preferred prior to entry.

Program Requirements
- Students normally enrol for two years of full-time study, although part or all of the requirements of the program may be met by part-time study, with the approval of the Program Director.
- Progress into the second year of the program is normally dependent upon the achievement of an overall B average in the first year. Equivalent provisions apply to the part-time program.
- Students are required to pursue a planning internship (PLA 4444H) between the first and second years of the program. Part-time students who are currently employed in a planning environment may be exempted from this requirement; however, the Planning Director retains final discretion in the decision.
- The program consists of 8.0 FCEs, taken over two years. This includes the required 3.5 FCEs in core courses. A further 4.5 FCEs (exclusive of PLA 4444H) are chosen from the list of electives and from the offerings of other departments, centres, and institutes. At least 2.5 FCEs of these electives must fit into an approved specialization in one of the following five fields: Urban Planning and Development, Environmental Planning, Social Planning and Policy, Economic Planning and Policy, Urban Design.

Normal Program Length: 6 sessions full-time; 12 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements
- Students are admitted under the General Regulations of the School of Graduate Studies, in addition to the following departmental regulations.
- An appropriate master’s degree in planning or a related field, or its equivalent from a recognized university, with a minimum standing equivalent to at least a University of Toronto A- and demonstrated competence in analytical methods or successful completion of one of two methods courses in the current master’s program.

Program Requirements
- Successful completion of coursework, a comprehensive examination, a thesis proposal, and a thesis.
- Students with a master’s degree in planning comparable to the University of Toronto MSc in Planning are required to take 3.0 full-course equivalents (FCEs) of which 1.5 FCEs are core courses and 1.5 FCEs are electives (at least 0.5 elective FCE must be outside the Planning program). Students who enter with a master’s degree in a related field may be required to take up to an additional 1.0 FCE depending on their background and experience.
- Visit the Planning website, www.geog.utoronto.ca, for more details.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List

All courses are not given every year; some faculty members may be on research leave. Please consult the departmental graduate office for details.

Core Courses for MScPI
PLA 1101H  Issues in Planning History, Thought, and Practice
PLA 1102H  Planning Decision Methods I
PLA 1103H  Legal Basis of Planning
PLA 1105H  Planning Decision Methods II
PLA 1106H  Workshop in Planning Practice
PLA 1107Y  Current Issues Paper

Core Courses for PhD Planning
JPG 1111H  Advanced Research Design (or a methods course in a related department subject to the approval of the supervisor)
PLA 2000H  Advanced Planning Theory
PLA 2001H  Planning Colloquium (CR/NCR)
Elective Courses
PLA 1149H Independent Study
PLA 1150H Planning Field Trip Course
JPG 1402H Environment and Development
JPG 1603H Political Ecology of African Environments
JPG 1404H Issues in Global Warming
JPG 1406H Energy Supply and Use
JPG 1407H Efficient Use of Energy
JPG 1408H Carbon-Free Energy
JPG 1410H Institutional and Organizational Ecology
JPG 1413H Workshop in Environmental Impact Assessment
JPG 1414H Cities as Ecosystems
JPG 1415H Global Environmental Justice and Social Movements
JPG 1416H Environmental Consequences of Land Use Change
JPG 1418H Rural Land Use Planning
JPG 1419H Aboriginal/Canadian Relations in Environmental and Resource Management
JGE 1420H Urban Waste Management: an International Perspective
JPG 1421H Health in Urban Environments
JPG 1423H Political Ecology of the Global Agrifood System
JPG 1424H Comparative Farming Systems
JPG 1501H The Political Economy of Cities
PLA 1503H Planning and Social Policy
PLA 1505H The Multicultural City: Diversity, Policy and Planning
JPG 1506H Urban and Regional Social Policy: An International Perspective
JPG 1507H Housing and Housing Policy
JPG 1508H Planning for the Urban Poor in Developing Countries
JPG 1509H Feminism, Postcoloniality and Development
JPG 1510H Recent Debates on Urban Form
JPG 1512H Place, Politics and the Urban
JPG 1514H The Role of the Planner: Making a Difference
JPG 1516H Declining Cities
PLA 1517H Special Topics in Planning III (Credit/No Credit)
PLA 1551H Policy Analysis
PLA 1552H City Planning and Management
JPG 1554H Transportation and Urban Form
JPG 1556H Transportation Systems Analysis
PLA 1601H Environmental Planning and Policy
JGE 1609H Cities, Industry and the Environment
JPG 1614H Regional Development and Policy
JPG 1615H Planning the Social Economy
JPG 1616H The Cultural Economy
PLA 1650H Urban Design: History Theory Criticism
PLA 1651H Planning and Real Estate Development
PLA 1652H Introductory Studio in Urban Design and Planning
PLA 1653Y Advanced Studio in Urban Design and Planning
PLA 1654H Urban Design Research Methods
PLA 1655H Urban Design and Development Controls
JPG 1670H Regional Economic Analysis
JPG 1672H Land and Justice
JPG 1702H Historical Urban Geography and Planning
JPG 1706H Geographies of Violence
JPG 1710H Historic Preservation Planning
JPG 1713H Place, Design, and Landscape
PLA 1751H Public Finance for Planners
PLA 1801H Urban Infrastructure Planning
JPG 1802H Political Spaces I
JPG 1804H Space, Power and Geography: Understanding Spatiality
JPG 1810H Globalization and Postmodernism
PLA 1904H Law and Planning
JPG 1906H Geographic Information Systems
JPG 1909H Social Survey Methods
JPG 1914H Spatial Information Systems
PLA 4444H Internship (Credit/No Credit) (Designates the internship to be undertaken by master’s students in the Planning Program. It cannot be used to fulfill other course requirements for the degree.)

Urban Design Studies
The MUDS is a one-year professional degree program which provides intensive, advanced education in the principles and practices of urban design. It aims to encourage an understanding of the interdependence of the economic, social, and political forces that shape the character, physical structure, and dynamic properties of cities. The MUDS program coincided with the launch of the Master of Urban Design (MUD) degree program in the Faculty of Architecture, Landscape and Design. Consult the separate calendar entry under Architecture, Landscape, and Design for more details.

Master of Urban Design Studies
Minimum Admission Requirements

- Students are admitted under the General Regulations of the School of Graduate Studies.
- Applicants with prior degrees in a range of disciplines including planning, geography, other social sciences, the design disciplines, business administration, and law are encouraged to apply. Students are admitted via one of three routes:
  - Master’s degree in a professional field such as planning, architecture, landscape architecture, business administration and law; an average equivalent to at least at University of Toronto B+ in graduate studies is required.
  - Bachelor’s degree (four- or five-year) in planning, architecture, or landscape architecture, with a strong design orientation; an average equivalent to at least at University of
Toronto B+ (or upper second class) in the final year is required.

- Bachelor's degree (four- or five-year) in any discipline plus evidence of significant professional experience (normally at least five years) in an area related to Urban Design and Planning; an average equivalent to at least a University of Toronto B+ in the final year of the undergraduate program is required.

Program Requirements

- 4.0 full-course equivalents (FCEs). Students entering with significant prior design workshop/studio experience (as determined by the admissions committee) must complete a core program of 2.5 FCEs plus a further 1.5 FCEs chosen from electives given within the Program in Planning; the Faculty of Architecture, Landscape and Design; and from the offerings of other graduate units. Students without significant prior design workshop/studio experience must complete the above core program and PLA 1652H, plus a further 1.0 elective FCE.
- The MUDS program may be taken on a part-time basis. Part-time students are expected to participate in the same class meetings as full-time students.

Normal Program Length: 3 sessions full-time; 6 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Course List

Core Courses

The core program is composed of five half-course equivalents (six half-course equivalents for those entering the program without significant prior design workshop/studio experience) that encompass the practical, theoretical, and methodological aspects of urban design.

Course sequence for the core program:

**First Session**

- PLA 1650H/URD 1031H Urban Design: History Theory Criticism
- JPG 1713H Place, Design and Landscape
- PLA 1654H Urban Design Research Methods
- PLA 1652H Introductory Studio in Urban Design and Planning (students without significant design workshop/studio experience must take PLA 1652H)

Plus one half-course elective, or two half-course electives if the student is exempted from PLA 1652H

Second Session

- PLA 1653Y Advanced Workshop in Urban Design
- PLA 1655H Urban Design and Development
- Plus one half-course elective

Electives

Elective courses may be chosen from the following:

- JPG 1554H Transportation and Urban Form
- PLA 1651H Planning and Real Estate Development
- JPG 1501H The Political Economy of Cities
- JPG 1510H Recent Debates on Urban Form
- JPG 1512H Place, Politics and the Urban
- JPG 1615H Planning and the Social Economy
- JPG 1702H Historical Urban Geography and Planning
- JPG 1710H Historic Preservation Planning
- JPG 1713H Place, Design and Landscape
- JPG 1804H Space, Power and Geography: Understanding Spatiality
- JPG 1914H Spatial Information Systems
- URD 1012H Urban Design Studio Options
- URD 1021H Urban Design Computation
- URD 1032H Urban Design in the History of the Post-Industrial World
- URD 1033H The City and the Text
- URD 2041H Business and Land Use Planning in Real Estate Development

MUDS students may also select other electives, subject to the approval of the Director, Program in Planning, and the Coordinator of the MUDS program. Courses with a URD designation are offered through the Faculty of Architecture, Landscape and Design.

Graduate Faculty

**Full Members**

- Abizaid, Christian - MA, PhD
- Archontitsis, Georgios - BSc, MSc, DSCA
- Basiliko, Nathan - PhD
- Boland, Alana - BA, MA, PhD
- Bulung, Ronald - MA, PhD
- Bunce, Michael - BA, PhD
- Bunce, Susannah - BA, MES, PhD
- Chen, Jing - BSc, PhD
- Conway, Tenley - BS, MS, PhD
- Cowen, Deborah - BA, MCP, PhD
- Cowling, Sharon - BSc, MSc, PhD
- Daniere, Amrita - AB, PhD
- Desloges, Joseph - BES, MSc, PhD
- Desrochers, Pierre - AB, MA, PhD
- Diamond, Miriam - MSc, MSc, PhD
- DiFrancesco, Richard - PhD
- Dunn, James - AB, AM, PhD
- Farish, Matthew - BA, PhD
- Finkelstein, Sarah - AB, MPH, PhD
- Florida, Richard - BA, PhD
- Friedmann, Harriet - AB, MA, PhD
- Gertler, Meric - AB, MCP, PhD
- Gilbert, Emily - PhD
Degree and Diploma Programs by Graduate Unit

Goonewardena, Kanishka - BSc, MCP, PhD (Director, Program in Planning)
Gough, William - BSc, MSc, PhD
Hackworth, Jason - BA, MA, MCP, PhD
Harvey, Leslie - BSc, MSc, PhD
He, Yuhong - PhD
Hess, Paul - BA, MA, PhD
Hunter, Mark - BA, MSS, PhD
Isaac, Marney Elizabeth - BS, MES, PhD
Kepe, Thembela - MS, PhD
Leslie, Deborah - BA, MA, PhD
Lewis, Robert - BA, MA, PhD
MacDonald, Ken - BA, MA, PhD
Maclaren, Virginia - BA, MRP, MSc, PhD
Mahtani, Minelle - BA, PhD
Malcolm, Jay - BSc, MSc, PhD
McGregor, Deborah - BSc, MES, PhD
Miller, Eric - BASc, MASc, PhD
Mitchell, Carl - PhD
Munro, D Scott - BSc, MSc, PhD
Narayana Reddy, Rajayashree - BA, MEC, MS
Price, Anthony - BSc, MSc, PhD
Prudham, Scott - BASc, BA, MA, PhD
Rankin, Katharine - BA, MA, PhD
Relph, Edward - BA, MPH, PhD
Robinson, Vincent - BSc, MSc, PhD
Ruddick, Susan - PhD
Siemiatycki, Matthew - BA, MSc, PhD
Silvey, Rachel - BA, MA, PhD
Simpson, Myrna - BS, DPhil
Sorensen, Andre - BFA, MSc, PhD
Wakefield, Sarah - BA, MA, PhD
Walks, Alan - BA, MA, PhD
Wells, Mathew - BS, DPhil
Wilson, Kathleen - AB, AM, PhD

Members Emeriti
Bourne, Larry - BA, MA, PhD
Britton, John - BA, MA, PhD
Davis, Anthony - BA, MA, PhD
Gad, Gunter - DPhil, PhD
Galloway, John - BA, MA, PhD
Greenwood, Brian - BSc, PhD
Lemon, James - BA, BD, MS, PhD
Roweis, Shoukry - MSc, PhD
Simmons, James - BSc, MA, PhD
White, Rodney - BA, MSc, PhD
Whitney, Joseph - BA, PhD

Associate Members
Bathelt, Harald - MA, PhD
Boyes, Donald - BS, MA, PhD
Brail, Shauna - BA, MA, PhD
Feldman, Maryann - BA, MS, PhD
Grima, Angelo - BA, MA, PhD
Kumar, Kundan - BSc, MF
Leydon, Joseph - BA, MA, PhD
Murck, Barbara - AB, PhD
Poland, Blake - BA, PhD
Roorda, Matthew - BEng, MASc, PhD
Savan, Beth - BSc, PhD
Shakir-Raza, Uzma - MA
Geology

Faculty Affiliation
Arts and Science

Degree Programs Offered
Geology – MAsc, MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Environmental Studies
   - Geology, MSc, PhD
2. Geology and Physics
   - Geology, MSc, PhD

Overview
The Department of Geology accepts students for advanced degrees—Master of Applied Science, Master of Science, and Doctor of Philosophy—in a broad range of topics in the Earth Sciences. Students may also undertake studies in interdisciplinary areas by arrangement with other departments such as Civil Engineering, Ecology and Evolutionary Biology, Centre for Environment, Physics, Chemistry, and Materials Science and Engineering.

In recent years, research by staff and graduate students has been carried out in all parts of North America and other parts of the world, both on land and at sea. In addition to field-based studies, the department has a wide range of modern laboratories; advanced studies are encouraged in a broad spectrum of geological problems. Further details of research emphases, facilities, detailed degree requirements, and graduate courses are available on the departmental website.

Contact and Address
Web: www.geology.utoronto.ca
Email: grad@geology.utoronto.ca
Telephone: (416) 978-1240
Fax: (416) 978-3938
Department of Geology
University of Toronto
Earth Sciences Centre
Room 1066, 22 Russell Street
Toronto, Ontario M5S 3B1
Canada

Degree Programs

Geology

Master of Applied Science
Minimum Admission Requirements
- Students are accepted under the General Regulations.
- The department has no formal foreign language requirements. Students proceeding by thesis to any degree are expected to become familiar with the literature of their subjects, in whatever language it is written.

Program Requirements
- Normally complete the graduate seminar (GLG 1101H), one of the six breadth courses, and 1.0 FCE of elective courses, for a total of 2.0 FCEs.
- A research thesis.
- Minimum full-time residence is one academic session.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Master of Science
Minimum Admission Requirements
- Students are accepted under the General Regulations.
- The department has no formal foreign language requirements. Students proceeding by thesis to any degree are expected to become familiar with the literature of their subjects, in whatever language it is written.

Program Requirements
- Students in the all coursework option are normally required to complete the graduate seminar (GLG 1101H), the all-course research project (GLG 3608H), one of the six breadth courses, and 3.5 FCEs of elective courses for a total of 5.0 graduate full-course equivalents (FCEs).
- Students in the doctoral-stream option are normally required to complete the graduate seminar (GLG 1101H), the research project (GLG 3603Y+), research presentation (GLG 3601Y+), one of the six breadth courses, and 1.0 FCE of elective courses, for a total of 4.0 FCEs.
- To encourage breadth, the department will permit students to substitute electives with equivalent non-geology courses.
- Students may proceed on a part-time basis.

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Normal Program Length: 3 sessions full-time; 6 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- Students are accepted under the General Regulations.
- The department has no formal foreign language requirements. Students proceeding by thesis to any degree are expected to become familiar with the literature of their subjects, in whatever language it is written.

Program Requirements

- Preparation of a research thesis constituting a significant contribution to the knowledge of the earth.
- Students normally complete the graduate seminar course, one of the six breadth courses and an additional half course, for a total of 1.5 FCEs. The additional half course may be taken in departments other than Geology with the approval of the student's advisory committee. A reduction in the number of required courses may be granted for students who have previously undertaken graduate studies in the appropriate fields. Recommendations must be made by a student’s advisory committee for consideration and approval by the department’s Graduate Affairs Committee.
- Students who begin the PhD program directly from the department’s research-based MSc are required to take one of the six breadth courses and an additional half course. In all cases, the student’s supervisory committee reserves the right to assign additional courses if they feel that the student is deficient in a subject area essential to the research.
- Students are normally expected to complete the MSc degree before proceeding to the PhD, but exceptions may be made when the student has the appropriate research experience. Normal departmental rules for the completion of the PhD apply (see departmental website).

Normal Program Length: 4 years full-time; 5 years direct-entry; 5 years transfer-from-master’s
Time Limit: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master’s

Course List

Check with the department for current year’s offerings.

GLG 1100Y Seminars in Geology Y

Additional related courses can be found in the Geophysics section of the Graduate Department of Physics course listings.

Graduate Faculty

Full Members

Bailey, Richard - BSc, PhD
Bergquist, Bridget - BS, PhD
Bollmann, Jorg - DPhil
Brenan, James - BSc, PhD
Cowling, Sharon - BSc, MSc, PhD
Cruden, Alexander - BSc, PhD
Davis, Donald - BSc, MSc, PhD
Dittrich, Maria B. - BES, MSc, PhD
Eyles, Nicholas - BSc, MSc, PhD, DSc
Ferris, Grant - BSc, PhD
Ghent, Rebecca - BA, MSc, PhD
Gorton, Michael - BSc, BSc, PhD
Halfar, Jochen - PhD
Hall, Henry - BSc, MSc, PhD
Hamilton, Michael - BSc, PhD
Head, Martin - BSc
Henderson, Grant - PhD
Howard, Kenneth - BSc, MSc, PhD
Miall, Andrew - BSc, PhD
Milkereit, Bernd - DrRenNat
Mungall, James - BSc, MSc, PhD
Pysklywec, Russell - BSc, MSc, PhD (Chair and Graduate Chair)
Degree and Diploma Programs by Graduate Unit

Schoenbohm, Lindsay - PhD
Schulze, Daniel - PhD
Sherwood Lollar, Barbara - PhD
Simpson, Myrna - BS, DPhil
Spooner, Edward - BA, PhD (Associate Chair)
Srinivasan, Gopalan - BSc, MSc, PhD
Tait, Kimberly - BSc, MSc, PhD
Wells, Matthew - BS, DPhil
Wicks, Frederick - PhD
Wortmann, Ulrich - BSc, MSc, PhD
Young, R. Paul - BSc, MSc, PhD, Chartered Engineer

Members Emeriti
Anderson, Gregor - BEng, MASc, PhD
Naldrett, Anthony - BA, MSc, PhD
Norris, Geoffrey - BA, MA, PhD
Robin, Pierre-Yves F - MSc, PhD
Rucklidge, John - BA, PhD
Schwerdtner, Walfried - DIPLOGEO, BSc, DrRerNat
Scott, Steven - BSc, MSc, PhD
Von Bitter, Peter - PhD
Westgate, John - PhD

Associate Members
Rudkin, David - BSc
Germanic Languages and Literatures

Faculty Affiliation
Arts and Science

Degree Programs Offered
German Literature, Culture and Theory – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Diaspora and Transnational Studies
   • Germanic Languages and Literatures, MA, PhD
2. Jewish Studies
   • Germanic Languages and Literatures, MA, PhD
3. Women and Gender Studies
   • Germanic Languages and Literatures, MA, PhD

Overview
The Department of Germanic Languages and Literatures at the University of Toronto is the oldest and largest department of German in Canada. In addition to our traditional strength in literary and intellectual history, faculty and students are conducting research in German cinema, critical theory, language pedagogy, medieval studies, travel literature, as well as postcolonial, psychoanalytic, and transnational studies.

The department offers a graduate program of study leading to two degrees: Master of Arts and Doctor of Philosophy. The MA degree usually takes eight months (September to April) to complete, while the PhD degree is normally completed in four to five years.

Contact and Address
Web: http://german.utoronto.ca
Email: german@chass.utoronto.ca
Telephone: (416) 926-2321
Fax: (416) 926-2329

Department of Germanic Languages and Literatures
3rd Floor, 50 St. Joseph Street
University of Toronto
Toronto, Ontario M5S 1J4
Canada

Degree Programs

German Literature, Culture and Theory

Master of Arts

Minimum Admission Requirements
• Applicants are accepted under the General Regulations and must satisfy the department’s program requirements stated below.
• Applicants to the one-year MA program must have completed an appropriate bachelor’s degree from a recognized university that includes at least 6.0 full-course equivalents (FCEs) in German language, literature, and culture, with an average grade of at least a B+.
• Applicants from other universities should arrange for three supporting letters to be sent to the Coordinator of Graduate Studies of the department, preferably on forms available from the department.
• Admission is based upon the applicant’s academic record and upon the evidence of the supporting letters.

Program Requirements
• Complete 3.5 full-course equivalents (FCEs), including GER 1000H German Studies Seminar: Culture, Theory, Text. Course selection is made in consultation with the Coordinator of Graduate Studies of the department and must be approved by the department.
• Pass a German language competence test.

Normal Program Length: 2 sessions full-time; 5 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements
• Applicants are accepted under the General Regulations and must satisfy the department’s program requirements stated below.
• Admission to the PhD program requires either
  o an appropriate bachelor’s degree from a recognized university that includes at least 6.0 full-course equivalents (FCEs) in German language, literature, and culture, with an average grade equivalent to at least a University of Toronto B+ in the applicant’s overall program and of at least an A- in the applicant’s German courses, or
an appropriate master's degree in German from a recognized university, with an average grade equivalent to at least a University of Toronto A- in the applicant's overall program.

- Applicants must satisfy the department that they are capable of independent research in German at an advanced level.
- Applicants from other universities should arrange for three supporting letters to be sent to the Coordinator of Graduate Studies of the department, preferably on forms available from the department.
- Admission is based upon the applicant's academic record and upon the evidence of the supporting letters.

Program Requirements

- Applicants admitted on the basis of a bachelor's degree must take a minimum of 7.0 FCEs, including GER 1000H German Studies Seminar: Culture, Theory, Text with an average grade of at least an A-. The department may recommend to the School the termination of the registration and eligibility of a student who fails to complete at least 3.5 FCEs, with an average of at least an A-, during the first year of the program. The student is required to complete the remaining courses required for the degree, with an A- average by the end of the second year.
- Applicants admitted on the basis of a master's degree must take a minimum of 4.0 FCEs including GER 1000H German Studies Seminar: Culture, Theory, Text with an average grade of at least an A-. The student is required to complete at least 3.5 FCEs by the end of the first year of registration and any remaining courses required for the degree by the end of the second year.
- Course selection may include 1.5 FCEs in a department other than Germanic Languages and Literatures.
- Course selection is made in consultation with the Coordinator of Graduate Studies of the department and must be approved by the department.
- Students must:
  - give evidence of reading knowledge of French, or, in exceptional circumstances, of another language approved by the department.
  - pass a general examination in German literature.
  - pass a thesis field review.
  - make an oral presentation of their thesis.
  - submit a thesis on an approved subject and pass a doctoral final oral examination on this subject.
- The department may permit a candidate to write the doctoral thesis in German when the candidate's advisory committee so recommends and when the candidate has satisfied the School's conditions (see Degree Regulations, Doctor of Philosophy, Thesis).

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years part-time

Course List

Not all courses are offered every year. The department should be consulted each session as to actual course offerings.

- GER 1000H German Studies Seminar: Culture, Theory, Text
- GER 1200H Middle High German
- GER 1300H Cultural History of the German Language
- GER 1400H From Real to Virtual Shetel: Jewish Culture in Russia, 1917–2010
- GER 1470H Goethe in Context
- GER 1480H Goethe's Faust
- GER 1490H Bildung und der Roman der Spätaufklärung
- GER 1501H Romanticism
- GER 1530H Heine and Critical Theory
- GER 1540H Revolutions
- GER 1550H Origins: Myths of Beginning in German Literature and Thought
- GER 1580H Vienna at the Turn of the Century
- GER 1615H The Early Theatre of Bertolt Brecht
- GER 1661H Modernism in Context
- GER 1665H Modernism and the Other
- GER 1690H Theatre in the Weimar Republic
- GER 1710H Weimar Cinema
- GER 1730H Travel Writing
- GER 1752H Germany 's Colonial Imaginary
- GER 1770H Reviewing the 50s: German Cinemas under Reconstruction
- GER 1771H Topics in German Cinema Studies
- GER 1772H The Politics of the Non-fiction Film
- GER 1775H Cinemas of Migration
- GER 1777H Locations of East German Cinema
- GER 1780H Topics in German Visual Culture
- GER 1785H Remaking the Movies in German Cinemas
- GER 1820H The Learning and Teaching of German
- GER 1830H Topics in German Intellectual History
- GER 1860H Introduction to Critical Theory
- GER 2000H,Y Reading Course in Approved Field
- GER 3000H Current Trends in German Literature
- GER 6000H Reading German for Graduate Students
- JGC 1660H Modernism and the Other
- JGC 1750H Modernity and Its Discontents
- MST 2010Y Old Norse
- MST 2015Y Studies in Old Norse Texts
- MST 2019H Icelandic Family Sagas

Graduate Faculty

Full Members

Fenner, Angelica - BA, MA, PhD
Goetschel, Willi - PhD
Degree and Diploma Programs by Graduate Unit

Hager, Michael - MA, PhD
Lehleiter, Christine - MA, PhD
Noyes, John - BA, MA, PhD
Shternshis, Anna - MA, PhD
Soldovieri, Stefan - AB, AM, DPhil
Stock, Markus - MA, PhD (Associate Chair, Graduate Studies)
Zilcosky, John - BA, MA, MA, PhD (Chair and Graduate Chair)

Members Emeriti
Dierick, Augustinus - BA, MA, PhD
Genno, Charles - PhD
Hempel, Wolfgang - PhD
Mayer, Hartwig - PhD, PhD
Saas, Christa - BA, MA, PhD
Seliger, Helfried - PhD
Wetzel, Heinz - DPhil

Associate Members
Retallack, James - BA, DPhil
Global Affairs

Faculty Affiliation
Arts and Science

Degree Programs Offered
Global Affairs – MGA, JD/MGA

Overview
The Master of Global Affairs (MGA) is a two-year professional program, consisting of four sessions of coursework, and a compulsory summer internship. The purpose of this program is to provide an outstanding professional, multidisciplinary education to train the next generation of global leaders of international institutions, global civil society, and business. The MGA will equip students with a sophisticated understanding of the larger political, economic, and social contexts of global affairs and with the skills necessary to work strategically and effectively within the evolving global system. The MGA integrates the study of global institutions, global civil society, and the global economy and markets into the same program, and requires that students learn about each area and about the interconnections between them.

In offering a curriculum that provides both breadth and depth, the MGA draws on the scholarly strength of faculty from a range of disciplines and subject areas. Students lacking backgrounds in basic economics will be required to take courses in micro- and macroeconomics for policy analysis.

Contact and Address
Web: www.globalaffairs.utoronto.ca
Email: mga@utoronto.ca
Telephone: (416) 946-8917
Fax: (416) 946-8915

Munk School of Global Affairs
University of Toronto
1 Devonshire Place
Toronto, Ontario M5S 3K7
Canada

Degree Programs

Global Affairs

Master of Global Affairs

Minimum Admission Requirements
• Applicants are required to meet the General Regulations of the School of Graduate Studies.

• An appropriate bachelor’s degree with a minimum standing in the final year equivalent to at least a University of Toronto B+.
• Open to all disciplinary backgrounds.
• Applicants must demonstrate basic competencies in statistics and economics.

Program Requirements
• This is a two-year program taken on a full-time basis over 20 consecutive months.
• 8.0 full-course equivalents (FCEs), as follows:
  ○ 4.0 FCEs core courses in first year (eight half course equivalents)
  ○ 0.5 FCE Internship in the summer session between first and second years
  ○ 1.0 FCE Capstone Seminar in second year
  ○ 2.5 additional FCEs in second year (five half courses)
• Students lacking a background in economics must take courses in micro- and macroeconomics in first year (PPG 1002H and PPG 1003H; 0.5 FCE each). They must also take GLA 1001H International Economics in the second year (replacing a second-year elective course) instead of the first year (making a total of 4.5 FCEs in the first year).

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Course List

First-Year Core Courses (required)
GLA 1000Y Introduction to the Development of the Global System
GLA 1001H International Economics
GLA 1002H Global Civil Society
GLA 1003H Global Security
GLA 1004H Global Policy Analysis
GLA 1005H Decision Making and Strategic Thinking in the Global System
GLA 1006H Public International Law
GLA 1007H Global Internship (Summer)

Second-Year Core Course (required)
GLA 2000Y Capstone Seminar

Second-Year Elective Courses
(subject to change)
GLA 2001H Global Capital Markets and Global Strategies
GLA 2002H Development Policy and Change
GLA 2003H Global Governance
GLA 2004H Technology, Innovation and Globalization
GLA 2005H Negotiating Internationally
GLA 2006H The Politics of Money and Trade
GLA 2090H Topics in Global Affairs I
Degree and Diploma Programs by Graduate Unit

GLA 2091H Topics in Global Affairs II
JRG 2050H Religion, Culture, and Global Politics

Combined Juris Doctor/ Master of Global Affairs

The Combined Juris Doctor/Master of Global Affairs is designed for students interested in studying the intersections of law and global affairs. The combined program permits the completion of both degrees in four years rather than the five years it would take to acquire them independently.

Each student in the program shall meet the respective admission requirements of both the Faculty of Law JD program and Master of Global Affairs program. Students may be admitted to the combined program either at the time of their first application or they can apply to the MGA program during the first year of their JD studies. Whether admitted at the outset or after the first year of the JD program, however, all students will register in the School of Global Affairs only after their first year in the JD program.

Program Requirements

Year 1: full-time in Faculty of Law
Year 2: full-time in School of Global Affairs
Summer between years 2 and 3: full-time in School of Global Affairs
Year 3: full-time in Faculty of Law and part-time in School of Global Affairs
Year 4: full-time in Faculty of Law and part-time in School of Global Affairs

Within this combined four-year program students must meet all the respective degree requirements of both the MGA and the JD program at the Faculty of Law, including:

- In the first year, successfully complete all first-year courses of the JD program at the Faculty of Law with at least a B standing.
- In the second year, successfully complete all the first-year requirements of the MGA with at least a B+ standing, with the exception of Public International Law (GLA 1006H). JD/MGA students must take Public International Law (LAW 252H, worth 4 law credits [1 MGA credit]) during the second year and obtain at least a B+ standing in the course. Public International Law will be counted towards the fulfillment of a student’s MGA degree requirements, rather than the fulfillment of the JD requirements. Students register through the MGA program for this course and it will be graded on the MGA/SGS scale.
- In the summer between the second and third years, complete a summer global internship (GLA 1007H) with MGA worth 0.5 full-course equivalents (FCEs)
- In years three and four, successfully complete:
  a) a further 3.5 FCEs at the 2000-level from the School of Global Affairs (including the MGA capstone seminar GLA 2000Y or graduate-level courses approved by the Director of the MGA)
  b) 41–45 credits at the Faculty of Law, including a perspectives course, a moot (compulsory or competitive), and an international law, comparative law, or transnational law course. At least 9 of the 41–45 credits must be in the area of international law, which could include the following courses:
    - International Environmental Law (LAW 225H)
    - Law, Institutions, and Development (LAW 278H)
    - International Trade Regulation (LAW 285H)
    - International Human Rights Law (LAW 294H)

Time Limit: 4 years full-time

Combined Master of Global Affairs/ Master of Business Administration

The Combined Master of Global Affairs and Master of Business Administration is designed for students interested in studying the intersections of business and global affairs. The combined program permits the completion of both degrees in three years rather than the four years it would take to acquire them independently.

Each student in the program shall meet all the respective admission requirements of both the MGA and MBA. Students may be admitted to the combined program either at the time of their first application or during their first year of their MGA studies. Whether admitted at the outset or after the first year of the MGA program, however, all students will register in Management only after their first year in the MGA program.

Program Requirements

Year 1: full-time in School of Global Affairs
Summer between years 1 and 2: full-time in School of Global Affairs
Year 2: full-time in Management
Year 3: full-time in Management and part-time in the School of Global Affairs

Within this combined three-year degree students must:

1. In the first year, successfully complete all first-year courses at the School of Global Affairs, with at least a B+ standing to continue in the program. Students who lack an economics background will be required to delay taking GLA 1001H *International Economics* until their second year and will be required to take micro- and macroeconomics in their first year.

2. In the summer between years one and two, students must successfully complete a summer global internship with the MGA (GLA 1007H).

3. In the second year, successfully complete all first-year requirements of the MBA, with at least a B+ standing, in order to continue in the combined program.

4. In year three, successfully complete 2.5 FCEs (five electives) in Management and 1.5 FCEs (three electives) in the MGA program or other graduate courses in cognate units approved by the Director plus the required MGA capstone seminar (GLA 2008Y).

5. To participate in the Rotman Student Exchange Program, students must get permission from both programs. Students in the Combined MGA/ MBA can only participate in the Rotman Exchange Program and not the MGA Exchange Program. No MGA course requirements can be met while on exchange. While on exchange students must take the equivalent of five elective courses (2.5 FCEs) to meet their MBA elective requirements.

Students enrolled in combined programs must complete the requirements of both programs in order to graduate in each program. No diplomas will be awarded until the requirements for each program are fulfilled.

**Time Limit:** 4 years full-time

### Graduate Faculty

#### Full Members

 Bernstein, Steven - PhD  
 Bertoldi, Nancy - BA, MA, PhD  
 Brunnee, Jutta - LLM, SJD  
 Cameron, David - PhD, Graduate Chair, Fell Royal Society Canada (Graduate Chair)  
 Delbert, Ronald - BA, MA, DrRerPol  
 Duranton, Gilles - BSc, MSc, MA, PhD  
 Friedmann, Harriet - AB, MA, PhD  
 Gertler, Meric - AB, MCP, PhD  
 Hoffmann, Matthew - BSc, PhD  
 Kirton, John - BA, MA, PhD  
 Kohler, Jillian - BA, MA, PhD  
 Kopstein, Jeffrey - BA, MA, PhD  
 Levi, Ron - BCL, LLB, LLM, SJD  

 McGahan, Anita - BA, MA, MBA, PhD  
 Mundy, Karen - AB, MA, PhD  
 Nevitte, Neil - BA, MA, PhD, Fell Royal Society Canada  
 Orchinski, James - MA, MD  
 Pauly, Louis - BA, MA, MSc, MSc, PhD, Canada Research Chair  
 Polanyi, John - MSc, PhD, DSc, Fell Royal Society Canada, Fell Royal Society London  
 Pruessen, Ronald - BA, MA, PhD  
 Reitz, Jeffrey - PhD  
 Shachar, Ayelet - LLB, BA, LLM, SJD  
 Vipond, Robert - BA, MA, AM, PhD  
 Wark, Wesley - BA, BA, MA, PhD  
 Wolfe, David - BA, MA, PhD  
 Wong, Joseph - BA, MA, PhD, Canada Research Chair  

#### Members Emeriti

 Bird, Richard - BA, MA, PhD  
 Clarkson, Stephen - BA, BA, MA, PhD, Fell Royal Society Canada  
 Griffiths, Franklyn Jc - BA, MA, PhD  

#### Associate Members

 Gilady, Lilach - BA, MPH, MA, PhD  
 Hejazi, Walid - PhD  
 Morrow, Peter - BA, MA, PhD  
 Wong, Wendy - PhD
# Health Policy, Management and Evaluation

## Faculty Affiliation

Medicine

## Degree Programs Offered

### Health Policy, Management and Evaluation

- **MSc, PhD**
  - Clinical Epidemiology and Health Care Research
  - Health Services Research
  - Health Technology Assessment and Management

### Health Administration

- **MHSc, MHSc/MN, MHSc/MSW**

### Health Informatics

- **MHI**

### Management of Innovation

- **MMI**

## Collaborative Programs

The following collaborative programs are available to students in participating degree programs as listed below:

1. **Aging, Palliative and Supportive Care Across the Life Course**
   - Health Administration, MHSc
   - Health Policy, Management and Evaluation, MSc, PhD

2. **Bioethics**
   - Health Administration, MHSc
   - Health Policy, Management and Evaluation, MSc, PhD

3. **Cardiovascular Sciences**
   - Health Policy, Management and Evaluation, MSc, PhD

4. **Global Health**
   - Health Policy, Management and Evaluation, PhD

5. **Health Care, Technology and Place**
   - Health Policy, Management and Evaluation, PhD

6. **Health Services and Policy Research**
   - Health Policy, Management and Evaluation, MSc, PhD

7. **Resuscitation Sciences**
   - Health Policy, Management and Evaluation, MSc, PhD

8. **Women and Gender Studies**
   - Health Administration, MHSc
   - Health Policy, Management and Evaluation, MSc, PhD

9. **Women’s Health**
   - Health Policy, Management and Evaluation, MSc, PhD

## Overview

The Department of Health Policy, Management and Evaluation (HPME) is training Canada’s future health leaders and researchers through its outstanding degree programs:

1. Doctor of Philosophy in Health Policy, Management and Evaluation
2. Master of Science in Health Policy, Management and Evaluation
3. Master of Health Science in Health Administration
4. Master of Health Informatics
5. Master of Management of Innovation
6. Master of Management of Innovation

HPME also offers two combined programs which allow students to complete two degrees in less time than it would take to complete the programs separately:

1. Combined Master of Health Science (Health Administration)/Master of Nursing program
2. Combined Master of Health Science (Health Administration)/Master of Social Work program

Multidisciplinary collaborative programs with other University of Toronto graduate departments allow further specialization.

A complete description of all HPME programs is available on the website [www.hpme.utoronto.ca](http://www.hpme.utoronto.ca). Please note the application deadlines.

### November 15

- MSc in Health Policy, Management, and Evaluation
  - Fields: Clinical Epidemiology and Health Care Research; Health Services Research

- PhD in Health Policy, Management, and Evaluation
  - Fields: Clinical Epidemiology and Health Care Research; Health Services Research

### February 1

- MHSc in Health Administration
- MHSc in Health Administration/MSW Combined Degree Program
- MHSc in Health Administration/MN Combined Degree Program

### November 15 (closing February 15)

- Master of Management of Innovation

### March 1

- Master of Health Informatics

### April 1 (every other year)

- MSc in Health Policy, Management, and Evaluation
  - Field: Health Technology Assessment and Management
Degree and Diploma Programs by Graduate Unit

Contact and Address

Health Policy, Management and Evaluation
Web: www.hpme.utoronto.ca
Email: dept.hpme@utoronto.ca
Telephone: (416) 978-4326
Fax: (416) 978-7350

Department of Health Policy, Management and Evaluation
Faculty of Medicine
University of Toronto
4th Floor, 155 College Street
Toronto, Ontario M5T 3M6
Canada

Management of Innovation
Web: www.utm.utoronto.ca/mmi
Email: mmi.utm@utoronto.ca
Telephone: (905) 569-4743
Fax: (905) 569-4397

Master of Management of Innovation
University of Toronto Mississauga
Kanef Centre
Room 207, 3359 Mississauga Road North
Mississauga, Ontario L5L 1C6
Canada

Degree Programs

Health Policy, Management and Evaluation

Master of Science

The Health Policy, Management and Evaluation Graduate Program offers three fields leading to the Master of Science: Clinical Epidemiology and Health Care Research, Health Services Research, and Health Technology Assessment and Management.

Minimum Admission Requirements

- Students require an overall B+ average or higher in the last two years of an appropriate bachelor's degree from a recognized university. For applicants to Clinical Epidemiology and Health Care Research, a degree in a health profession (e.g., MD, BScN, BScOT, BScPT, DDM, MScN) from a recognized university with a B+ average in the final two years is required.

Program Requirements

Field Clinical Epidemiology and Health Care Research
Two options are available:

- Thesis option comprising 3.0 full-course equivalents (FCEs) and a thesis.
- Coursework-only option comprising 5.0 FCEs, including completion of at least one research practicum

Thesis MSc

- Completion of 3.0 FCEs as follows:
  - 1.5 FCEs required: HAD 5301H, HAD 5307H and one of HAD 5303H, HAD 5304H, HAD 5306H or HAD 5309H
  - 1.5 FCEs optional
- A thesis written under the supervision of a thesis committee (supervisor and at least one, and preferably two, additional graduate faculty members) and its defence before an examination committee.

Coursework-Only MSc

- Completion of 5.0 FCEs as follows:
  - 2.0 FCEs required: HAD 5301H, HAD 5307H, HAD 6360H, and one of HAD 5303H, HAD 5304H or HAD 5309H
  - 3.0 FCEs optional

Field Health Services Research

- 3.0 FCEs; of which 1.0 FCE must be research methodology courses and 1.0 FCE must be in an area of specialization.
- A thesis written under the supervision of a thesis committee and its defence before an examination committee.

Field Health Technology Assessment and Management

- 3.0 FCEs (HAD 5308H, HAD 5730H, HAD 5760H, HAD 5763H, HAD 5727H, and HAD 5304H) and participate in two non-credit seminars. The courses in this field are offered in a modular fashion.
- A thesis written under the supervision of a thesis committee and its defence before an examination committee.

Normal Program Length: 6 sessions (2 years) full-time; 8 sessions part-time

Time Limit: 5 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- A master's degree (MA or MSc) requiring a thesis with a B+ average or higher.
- Applicants to the Clinical Epidemiology and Health Care Research field must have a degree in a health profession (e.g., MD, BScN, BScOT, BScPT, DDM, MScN, or equivalent).
- Satisfactory references pertaining to the applicant's academic and research abilities.
• Outstanding students with a non-thesis master’s degree may be admitted to the PhD upon the recommendation of the appropriate HPME committee, if the applicant has the appropriate background preparation and research experience or publications which can be considered equivalent to a master’s thesis. Students with a non-thesis master’s degree and little or no research experience may be admitted to the MSc program and may petition to transfer into the PhD program within 24 months of first registration. Transfer is contingent upon successful completion of master’s coursework and preparation and defence of a PhD thesis proposal.

• Some applicants may be admitted to a flexible-time PhD option with the approval of the graduate chair. The flexible-time PhD option benefits mature students with career and/or familial obligations.

Program Requirements

Full-Time

• Completion of a comprehensive course in the area of specialization.

• Completion of 5.0 FCEs from those listed below. Students enrolled in the Clinical Epidemiology and Health Care Research field must select: 2.0 FCEs compulsory courses and 2.0 recommended FCEs from the Clinical Epidemiology and Health Care Research courses listed below.

• Writing of a PhD thesis under the supervision of an approved thesis committee (supervisor plus at least two additional graduate faculty members).

• Oral defence of the thesis before an examination committee.

• Full-time registration (fall, spring, summer sessions) for the first four years of the doctoral program.

Flexible-Time

• With the approval of the graduate chair, some applicants may be admitted to a flexible-time PhD program. This program will benefit students with career obligations. The degree requirements for the flexible-time PhD program are identical to those listed above for the full-time PhD program. Students are required to register full-time for the first four years of their program; thereafter, they may register part-time.

Normal Program Length: 4 years full-time; 5 years direct-entry; 5–6 years flexible-time

Time Limit: 6 years full-time; 7 years direct-entry; 6 years flexible-time

Course List

Field: Clinical Epidemiology and Health Care Research

Compulsory Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAD 5301H</td>
<td>Introduction to Clinical Epidemiology and Health Care Research</td>
</tr>
<tr>
<td>HAD 5307H</td>
<td>Introduction to Applied Biostatistics</td>
</tr>
<tr>
<td>HAD 5311H</td>
<td>Comprehensive/Synthesis (one year)</td>
</tr>
<tr>
<td>MSC 1060H</td>
<td>Biostatistics for Health Sciences</td>
</tr>
</tbody>
</table>

Recommended Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAD 5302H</td>
<td>Measurement in Clinical Research</td>
</tr>
<tr>
<td>HAD 5303H</td>
<td>Controlled Clinical Trials</td>
</tr>
<tr>
<td>HAD 5304H</td>
<td>Clinical Decision Making and Cost Effectiveness</td>
</tr>
<tr>
<td>HAD 5305H</td>
<td>Evidence-Based Guidelines</td>
</tr>
<tr>
<td>HAD 5306H</td>
<td>Introduction to Health Services Research and the Use of Health Administrative Data</td>
</tr>
<tr>
<td>HAD 5308H</td>
<td>Evidence Synthesis: Systematic Reviews and Meta-Analysis</td>
</tr>
<tr>
<td>HAD 5309H</td>
<td>Non-Experimental Design for the Clinical Researcher</td>
</tr>
<tr>
<td>HAD 5310H</td>
<td>Pragmatic Issues in Conduct of Controlled Trials</td>
</tr>
<tr>
<td>HAD 5730H</td>
<td>Economic Evaluation Methods for Health Service Research</td>
</tr>
<tr>
<td>HAD 5760H</td>
<td>Advanced Health Economics and Policy Analysis</td>
</tr>
<tr>
<td>JNH 5000H</td>
<td>Measurement of Patients’ Preferences in Health Care Decision Making</td>
</tr>
</tbody>
</table>

Elective Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HAD 5312H</td>
<td>Decision Modelling for Clinical Policy and Economic Evaluation</td>
</tr>
<tr>
<td>HAD 5313H</td>
<td>Advanced Design and Analysis Issues in Clinical Trials</td>
</tr>
<tr>
<td>HAD 5314H</td>
<td>Applied Bayesian Methods in Clinical Epidemiology and Health Care Research</td>
</tr>
<tr>
<td>HAD 5315H</td>
<td>Advanced Topics in Measurement</td>
</tr>
<tr>
<td>HAD 6360H</td>
<td>Required Research Practicum in Clinical Epidemiology (Credit/No Credit)</td>
</tr>
<tr>
<td>HAD 6361H</td>
<td>Optional Research Practicum in Clinical Epidemiology (Credit/No Credit)</td>
</tr>
<tr>
<td>HAD 7002H</td>
<td>Reading Course</td>
</tr>
</tbody>
</table>

Other HPME courses or extra-departmental courses may be considered as elective courses and are subject to approval of the department.

Field: Health Services Research

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HAD 5011H</td>
<td>Canada’s Health Care System (Doctoral Stream)</td>
</tr>
<tr>
<td>HAD 5726H</td>
<td>Design and Evaluation in eHealth Innovation and Information</td>
</tr>
<tr>
<td>HAD 5727H</td>
<td>Knowledge Transfer and Exchange</td>
</tr>
<tr>
<td>HAD 5728H</td>
<td>Performance Measurement in Health Care: Theory and Application</td>
</tr>
</tbody>
</table>

0 Course that may continue over a program. The course is graded when completed.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HAD 5729H</td>
<td>Theoretical, Conceptual and Methodological Issues in Knowledge Translation</td>
</tr>
<tr>
<td>HAD 5730H</td>
<td>Economic Evaluation Methods for Health Service Research</td>
</tr>
<tr>
<td>HAD 5734H</td>
<td>Organizational Learning and Knowledge Transfer</td>
</tr>
<tr>
<td>HAD 5737H</td>
<td>Tools for Implementation of Best Evidence</td>
</tr>
<tr>
<td>HAD 5738H</td>
<td>Advanced Methods in Economic Evaluation</td>
</tr>
<tr>
<td>HAD 5739H</td>
<td>Ideas and Arguments in Health Care Policy</td>
</tr>
<tr>
<td>HAD 5740H</td>
<td>Intermediate-Level Qualitative Research for Health Services and Policy Research</td>
</tr>
<tr>
<td>HAD 5760H</td>
<td>Advanced Health Economics and Policy Analysis</td>
</tr>
<tr>
<td>HAD 5763H</td>
<td>Advanced Methods in Health Services Research</td>
</tr>
<tr>
<td>HAD 5768H</td>
<td>International Perspectives on Health Services Management</td>
</tr>
<tr>
<td>HAD 5771H</td>
<td>Resource Allocation Ethics</td>
</tr>
<tr>
<td>HAD 5772H</td>
<td>Intermediate Statistics for Health Services Researchers</td>
</tr>
<tr>
<td>HAD 5773H</td>
<td>Introduction to Theories of Organizational Behaviour and Applications to the Health Care Sector</td>
</tr>
<tr>
<td>HAD 5776H</td>
<td>Issues in Qualitative Health Services Research Methodologies and Methods</td>
</tr>
<tr>
<td>HAD 5780H</td>
<td>Program Planning and Evaluation for Research Stream Students</td>
</tr>
<tr>
<td>HAD 6760Y</td>
<td>Introduction to Health Services Research Theory and Methods</td>
</tr>
<tr>
<td>HAD 6761H</td>
<td>Health Services Outcomes and Evaluation Comprehensive Course</td>
</tr>
<tr>
<td>HAD 6762H</td>
<td>Health Services Organization and Management Comprehensive Course</td>
</tr>
<tr>
<td>HAD 6763H</td>
<td>Health Policy Comprehensive Course</td>
</tr>
<tr>
<td>HAD 6764H</td>
<td>eHealth Innovation and Health Information Management Comprehensive Course</td>
</tr>
<tr>
<td>JNH 5001H</td>
<td>Health Care Settings, Site and Human Well Being</td>
</tr>
<tr>
<td>JNH 5003H</td>
<td>Home and Community Care Knowledge Translation</td>
</tr>
<tr>
<td>HAD 7001H</td>
<td>Reading Course</td>
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</tbody>
</table>

**Cross-Listed Courses**

These courses are limited to certain program students in Health Policy, Management and Evaluation. Please check the website www.hpme.utoronto.ca.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BME 1456H</td>
<td>Changing Health Care Technologies, People, and Places</td>
</tr>
<tr>
<td>HSR 1000H</td>
<td>Health Services Research Practicum</td>
</tr>
<tr>
<td>HSR 1001H</td>
<td>Introduction to Qualitative Methods for Health Services and Policy Research</td>
</tr>
<tr>
<td>HSR 1002H</td>
<td>Health Services and Policy Research Summer Institute</td>
</tr>
<tr>
<td>JCV 3060H</td>
<td>Advanced Topics in Cardiovascular Sciences—Molecular Biology and Heart Signal Transduction</td>
</tr>
<tr>
<td>JCV 3061H</td>
<td>Advanced Topics in Cardiovascular Sciences—Hormones</td>
</tr>
<tr>
<td>JCV 3062H</td>
<td>Advanced Topics in Cardiovascular Sciences—Heart Function</td>
</tr>
<tr>
<td>JCV 3063H</td>
<td>Advanced Topics in Cardiovascular Sciences—Vascular</td>
</tr>
<tr>
<td>JHM 1000H</td>
<td>Issue Analysis in Interdisciplinary, International Health Research</td>
</tr>
<tr>
<td>LAW 465H</td>
<td>Conflicts of Interest in Medicine: Evidence, Public Policy, and the Law</td>
</tr>
<tr>
<td>LAW 404H</td>
<td>Health System Law and Policy</td>
</tr>
</tbody>
</table>

**Health Administration**

**Master of Health Science**

The Master of Health Science program is geared to health managers and professionals who wish to acquire a graduate education in health administration. The program’s modular format allows learners to complete the degree without interrupting their careers.

**Minimum Admission Requirements**

- Normally the equivalent of a University of Toronto B+ average or higher in each of the last two years of an appropriate bachelor’s degree from a recognized university. Applicants are strongly advised to have some prior preparation in quantitative courses such as statistics, accounting, and economics.
- Full-time relevant work experience.

**Program Requirements**

- Completion of 10.0 full-course equivalents (FCEs) of which 8.5 FCEs are required subjects and which includes a minimum of 1.0 FCE in a field placement.

**Normal Program Length:** 6 sessions full-time  
**Time Limit:** 3 years full-time

**Course List**

**Required Courses**

All courses are offered in modular format unless marked otherwise.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAD 5010H</td>
<td>Canada’s Health System and Health Policy: Part I</td>
</tr>
<tr>
<td>HAD 5020H</td>
<td>Canada’s Health System and Health Policy: Part II</td>
</tr>
<tr>
<td>HAD 5711H</td>
<td>Theory and Practice of Strategic Planning and Management in Health Services Organization</td>
</tr>
<tr>
<td>HAD 5713H</td>
<td>Introduction to Health Information Systems</td>
</tr>
<tr>
<td>HAD 5721H</td>
<td>Strategic Management of Quality and Organizational Behaviour in Health Services Organizations</td>
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<td>HAD 5723H</td>
<td>Health Services Accounting</td>
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<tr>
<td>HAD 5724H</td>
<td>Quantitative Methods for Health Services Management and Policy</td>
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<tr>
<td>HAD 5725H</td>
<td>Health Economics</td>
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<td>HAD 5731H</td>
<td>Advanced Cases in Health Management</td>
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Degree and Diploma Programs by Graduate Unit

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<tr>
<td>HAD 5733H</td>
<td>Health Services Finance</td>
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<td>HAD 5741H</td>
<td>Health Law</td>
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<td>HAD 5761H</td>
<td>Information and Knowledge Management in Health Service Organizations</td>
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<td>HAD 5767H</td>
<td>Health Services Marketing</td>
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<td>HAD 5769H</td>
<td>Human Resources Management in the Health Field</td>
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<td>HAD 5770H</td>
<td>Program Planning and Evaluation</td>
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<tr>
<td>HAD 6010Y</td>
<td>Required MHSc Practicum (Credit/No Credit)</td>
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<tr>
<td>HAD 6011H</td>
<td>Optional Practicum Extension (Credit/No Credit)</td>
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Elective Courses

Non-modular electives may be taken subject to program approval.

<table>
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<th>Course Code</th>
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<tr>
<td>HAD 5735H</td>
<td>Commercialization of Health Research</td>
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<td>HAD 5736H</td>
<td>Operations Research Tools for Quantitative Health Care Decision Making</td>
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<td>HAD 5765H</td>
<td>Case Studies in Health Policy</td>
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<td>HAD 5774H</td>
<td>Comparative Health Care Systems</td>
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<td>HAD 5775H</td>
<td>Competition, Cooperation and Strategy in Health Care</td>
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Combined Master of Health Science (Health Administration)/Master of Nursing Program

The Combined Master of Health Science (Health Administration)/Master of Nursing Program provides students with a strong interest in both nursing and health administration an opportunity to engage in an integrated program leading to the concurrent receipt of the MHSc and MN degrees.

Minimum Admission Requirements

- Applicants gain independent admission to the Department of Health Policy, Management and Evaluation and to the Faculty of Nursing. Meeting the minimum requirements does not guarantee admission.
- University of Toronto BSc degree in Nursing or a degree from an equivalent program in a recognized university. Minimum B+ standing over the last two years of undergraduate study. The applicant is expected to have good academic standing in non-nursing as well as nursing subjects.
- Successful completion of an introductory course in statistics prior to admission.
- At least three years of work experience in the health care field.

Program Requirements

- Year 1: Students enrol in Nursing and complete 4.0 full-course equivalents (FCEs) for the MN degree.
- Year 2: Students enrol in HPME and complete a total of 6.5 FCEs: 5.5 FCEs in MHSc in Health Administration courses plus 1.0 FCE in electives that can be taken from HPME or Nursing.
- Year 3: 1.0 FCE taken in HPME.

Time Limit: 6 years full-time

Combined Master of Health Science (Health Administration)/Master of Social Work Program

The Combined Master of Health Science (Health Administration)/Master of Social Work Program allows students with a strong interest in both social work and health/social sciences management the opportunity to engage in an integrated program leading to the concurrent receipt of the MHSc and MSW degrees.

Minimum Admission Requirements

- Applicants gain independent admission to the Department of Health Policy, Management and Evaluation and to the Faculty of Social Work. Note that the deadline for receipt of applications to the MHSc program is February 1 and the deadline for the MSW program is December 1.

Program Requirements

- There are two full-time streams of study:
  - three-year program for students admitted with an appropriate bachelor's degree.
  - 2.5-year program for students with a Bachelor in Social Work degree
- Further details available on the website at www.hpme.utoronto.ca/about/pp/combined/mhsc-msw.htm.

Time Limit: 6 years full-time

Health Informatics

Master of Health Informatics

The Master of Health Informatics is a professional, graduate-level program which provides graduates with expertise in clinical, information and communication technologies required to lead organizational and health system change. The MHI degree program prepares health informaticians to bridge the gaps between clinicians and information and communication technology (ICT) specialists.

Minimum Admission Requirements

- Students are admitted under the General Regulations of the School of Graduate Studies.
- Appropriate bachelor’s degree from a recognized university, and demonstrated English-language proficiency. Eligible undergraduate degrees include those in a Health Sciences or Social Sciences specialty, Regulated Health Professions in Ontario, or a computer science or information science
speciality with the equivalent of a minimum mid-B average in the last academic year. Successful applicants normally have relevant professional experience as a health services professional (e.g., manager or administrator) or health sciences/clinical practitioner with demonstrated basic literacy and/or programming skills in computer applications relevant to the health sector, or a computer or information technician within a health-care setting or health software vendor.

Program Requirements
- Completion of 10.0 FCEs consisting of required coursework (7.5 FCEs), elective coursework (0.5 FCEs), and a four-month full-time practicum or field placement (2.0 FCEs).
- Degree requirements will be completed in 16 months across four consecutive sessions.

Normal Program Length: 4 sessions full-time
Time Limit: 3 years full-time

Course List

Required Courses
- MHI 1001H Introduction to Information and Communication Technology in Health Informatics
- MHI 1002H Complexity of Clinical Care
- MHI 2001H Health Informatics I
- MHI 2002H Health Informatics II
- INF 1003H Information Systems, Services and Design
- INF 1341H Analyzing Information Systems
- INF 2183H Knowledge Management and Systems
- MHI 2003H Consumer and Public Health Informatics
- MHI 2004H Human Factors and Change Management
- MHI 2005Y Practicum Placement
- MHI 2006H Advanced Topics in Health Informatics
- MHI 2007H Quantitative Skills in Health Informatics
- MHI 2008H Project Management for Health Informatics
- HAD 5010H Canada’s Health System and Health Policy I
- HAD 5728H Performance Measurement in Health Care

Elective Course
- MHI 3000H Independent Reading for Health Informatics

Management of Innovation

Master of Management of Innovation
The Master of Management of Innovation, designed for students with a background in science and technology, is an accelerated 12-month professional degree for individuals pursuing management careers in technology-focused organizations.

Minimum Admission Requirements
- SGS General Regulations
- Bachelor’s degree in sciences or engineering or equivalent from a recognized university. Minimum overall average grade of B+ over the last two years of full-time academic study.
- Prerequisites or their equivalents are set by the MMI program.
- A resume, a letter of intent, and at least two letters of reference must be submitted by the applicant. One reference must be provided directly from a faculty member familiar with the applicant’s work and who holds an appointment in the program where the applicant most recently graduated.
- Applicants who obtained a degree outside North America must arrange for GMAT or GRE (General) examination results to be sent to the department.
- An on-site written personal statement.
- Attend an interview where evaluative problem-solving capabilities and communication skills are assessed.

Program Requirements
- The 12-month program consists of an intensive 8-month core academic curriculum consisting of:
  - 4.0 FCEs (see list below)
  - 2.0 FCEs electives (1.0 FCE per session in each of the fall and winter sessions)
  - MMI 1100H, a final capstone course (Group Project, equivalent to 0.5 FCE) during the final four months of the program
- All requirements must be completed within a minimum of one year of study and a maximum of five years from the date of first enrolment.

Normal Program Length: 3 sessions full-time
Time Limit: 5 years full-time

Course List

Required Core Courses
- MMI 1010H Prices and Markets
- MMI 1020H Applied Econometrics for Managers
- MMI 1030H Marketing Science
- MMI 1050H Accounting and Negotiations
- MMI 1060H Finance
- MMI 1070H Economics of Business Strategy
Degree and Diploma Programs by Graduate Unit

MMI 1080H  Management of Technology
MMI 1090H  Technology, Strategy and Policy
MMI 1100H  Capstone Course - Final Group Project

Elective Courses
Students are encouraged to select electives that allow them to focus on their individual areas of interest. For this reason, the MMI Program does not impose a selection of electives. Students are free to choose from all graduate courses across all disciplines at the University of Toronto. All selections are subject to approval in advance by the Program Director.

Graduate Faculty

Full Members
Anderson, Geoff - MD
Baker, G. Ross - AB, MA, PhD
Barnsley, Janet M - BSc, MSc, PhD
Baxter, Nancy - DrMed, PhD
Bayoumi, Ahmed - MD
Beaton, Dorcas - BScOT, MSc, PhD
Bierman, Arlene - MS, MD
Bombardier, Claire - MA, MD
Bull, Shelley - BMath, MMath, PhD
Cheung, Angela - BA, MA, PhD
Cockerrill, Rhonda W - BA, MA, PhD [Coordinator of Graduate Studies]
Cohen, Marsha - BSc, BSc, MSc, MHSc, MD
Corey, Mary - BSc, PhD
Cote, Pierre - MSc, PhD
Coyte, Peter C - BA, MA, PhD
Culver, Tony - BA
Davis, Aileen - BScPT, MSc, PhD
Davis, David - BA, MA, PhD
Deber, Raisa - BS, MS, PhD
Detsky, Allan - BS, MD, PhD
Einason, Thomas - BScPhm, MSc, MPharm, MEd, PhD
Etchells, Edward - MSc, MD
Eysenbach, Gunther - MD
Feldman, Brian - MD
Flood, Colleen - LLB, LLM, SJD
Fortin, Paul - MPH, MD
Fremes, Stephen - BA, MSc, MD
Glazier, Richard - MPH, MD
Goel, Vivek - BSc, MSc, SM, MD
Goering, Paula - BSc, MSc, PhD
Golden, Brian - BS, MS, PhD
Goodwin, Pamela - MD
Grunfeld, Eva - MA, PhD
Hannah, Mary - BSc, MDCM, MS
Hawker, Gillian - MD
Hogg-Johnson, Sheila - BMath, MMath, PhD
Holness, D Linn - MHSc, MD
Jadad, Alejandro - MD, DPhil
Jaglal, Susan - BSc, MSc, PhD
Krahn, Murray - BA, MSc, MD
Laporte, Audrey - BA, MA, PhD
Laupacis, Andreas - MD
Law, Calvin - CPSO, LMCC, MPH, MD
Lemieux-Charles, Louise - PhD [Chair and Graduate Chair]
Leonard, Kevin - BCom, MBA, PhD
Lin, Elizabeth - PhD
Llewellyn-Thomas, Hiliary - BSN, MSc, PhD
Logan, Alexander - MD
Macarthur, Colin - BS, MSc, MBChB, PhD
Maclean, Heather - BSc, EdD
Mamdani, Muhammad - DP
Martin, Douglas - BSc, PhD
McCready, Brian - MD
McGeer, Allison - BSc, MSc, MD
Mclaughlin, John Ross - BSc, MSc, PhD
McLeod, Robin - BSc, LMCC, MD
Miller, Fiona - BSc, MA, DPhil
Myers, Ted - BA, MSW, MSc, PhD
Naglie, I. Gary - BSc, MDOM
Naylor, C. David - MD, PhD
O’Brien-Pallas, Linda-Lee - BSN, MSN, DPhil
OHLisne, Arne - MD, PhD
Rabeneck, Linda - MD
Redelmeier, Donald - MS, MD
Reaves, Scott - BSc, MSc
Rochon, Paula - MD
Sale, Joanna
Sass-Kortsak, Andrea - BSc, MHSc, PhD
Shachak, Aviv - DPhil
Straus, Sharon Elizabeth - MSc, MD
Stukel, Therese - BS, PhD
Sung, Lillian - MD
Talbot, Yves - BA, MD
To, Teresa - BA, MA, PhD
Tolomnitsenko, George - PhD
Tomlinson, George - PhD
Tu, Jack Ven - MD, PhD
Upshur, Ross Edward - BSc, BA, MA, MD
Urbach, David - MSc, MD
Walmsley, Sharon - BSc, MSc, MD
Waslenki, Donald - BA, MD
Williams, Paul - PhD
Wodchis, Walter - MA, PhD
Wright, James - BA, LMCC, CSPo, MPH, MD
Young, Lionel Trevor - MSc, MD, PhD
Zwarenstein, Merrick - MPH, MMed, MChB

Members Emeriti
Bliss, J Michael - BA, MA, PhD
Dickens, Bernard - LLB, LLM, PhD
Hastings, John Ef - DPH, MD
Vayda, Eugene - BS, MD, MBChB, DrMed

Associate Members
Alibhai, Shabbir - MD
Allen, Upton - MSc, MSc, MBBS
Ammendolia, Carlo - MEDSCD
Angle, Pamela - MD
Ashbury, Fredrick D - BA, MA, PhD
Austin, Peter - PhD
Baranek, Patricia - BS, MA, MA, PhD, PhD
Barbera, Lisa - MD
Bell, Chaim - MD
Berger, Howard - BSc, MD
Berta, Whitney - BS, MBA, PhD
Beyene, Joseph - BSc, MSc, PhD
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<tr>
<th>Name</th>
<th>Degree(s)</th>
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<td>Bezjak, Andrea</td>
<td>MS, MDCM</td>
<td>Health Policy, Management and Evaluation</td>
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<td>Bhattarcharya, Onil</td>
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<td>Jamal, Abida</td>
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<td>Jassal, Sarbjit</td>
<td>Vanita - MD</td>
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<td>Kennedy, Erin</td>
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<td>Khan, Kamran</td>
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<td>Kreiger, Nancy</td>
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<td>Kulkarni, Abhayya</td>
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<td>Kurdyak, Paul</td>
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Ladak, Nizar - BA, MEd
Landry, Michel - BSc(PT), MSc(PT), PhD
Lee, Douglas - DrMed, PhD
Lehoux, Pascale - BS, MSc, PhD
Lipscombe, Lorraine - MSc, MD
Loblaw, Andrew - MD
Lok, Charmaine - MSc, MD
Loutfy, Mona - MPH, MD
Macfarlane, P Dianne - BA
MacIntosh-Murray, Anu - BA, LLB, MPH
Mahomed, Nizar - MPH, MD, ScD
Malach, Faith - MHSAS
Markel, Frank - BA, MSc, PhD
Marshall, Debra - AA
Matlow, Anne - MSc, MD, MD
Mcgowan, Thomas - MBA, MD
Mitchell, Leslie - MSc
Moore, Aideen - MBChB
Moore, Lynn - MHSAS
Morrison, Laurie - BSc
Murphy, Kellie - MD
Murray, Michael A - BA, PhD
Naimark, David - MD
Nam, Robert - MSc, MD
Nauenberg, Eric - AB, MPH, PhD
Nestman, Lawrence - BComm, MHSAS
O’Connor, Paul - MD
Oliver, Matthew - MD
Pace, Kenneth - DrMed
Pain, Clare - BSc, MSc, MD
Paldia, Valerie - MD
Parker, Diane - DPM
Pasztat, Lawrence - MS, MD
Paterson, Michael - MS
Philippinon, Donald - MD
Pritchard, Kathleen - BA, MD
Prong, Gaylene - BSc, MSc, PhD
Pullenayegum, Eleanor - PhD
Rachlis, Michael - MSc, MD
Rakovitch, Eileen - MD
Rath, Darlyne - MSc
Ray, Joel - MSc, MD
Ringash, Jolie - MSc, MD
Saposnik, Gustavo - MSc, MD
Sawka, Anna - MD
Sawka, Carol - MD
Schull, Michael - MD
Scolnik, Dennis - MBCChB
Seto, Winnie - BScPhm, MSc, DP
Shah, Baiju - MD
Shah, Prakeshkumar - MD
Shah, Vibhuti - MD
Sharkey, Shirlee - BA, BSN, MHSAS
Shehata, Nadine - MEd, MD
Shojania, Kaveh - BSc, MD
Simmons, Christine - BSc, MD
Singer, Lianne - MD
Smith, Tina - BSc, MHSAS
Stanbrook, Matthew - MSc, MD
Steinhart, A. Hillary - MD
Stergiopoulos, Vicky - MD
Subbarao, Padmaj - MD
Sullivan, Terrence - BS, MA, PhD
Szold, John - MBA
Degree and Diploma Programs by Graduate Unit

Teare, Gary - MSc, DrMedVet, PhD
Tinmouth, Jill - MD, PhD
Tombak, Mihkel - BS, MBA, AM, PhD
Trbovich, Patricia L - PhD
Ungar, Wendy - BA, MSc, PhD
Urowitz, Sara - PhD
Verma, Sunil - MD
Wales, Paul - BSc, MSc, MD
Webster, Fiona - BA, MA, PhD
Wei, Alice - BSc, MSc, MSc, MD
Whyte, Hilary - MBChB
Wiljer, David - PhD
Willison, Donald - MSc, MSc, ScD
Windrim, Rory - MB
Wobeser, Wendy - MSc, DrMed
Wong, Rebecca - MBChB
Wright, Frances - BSc, LMCC, MEd, MD
Yeung, Latifa - MD
Young, Nancy - BSc(PT), MSc
History

Faculty Affiliation
Arts and Science

Degree Programs Offered
History – MA, PhD

Collaborative Programs

The following collaborative programs are available to students in participating degree programs as listed below:

1. Asia-Pacific Studies
   • History, MA
2. Book History and Print Culture
   • History, MA, PhD
3. Diaspora and Transnational Studies
   • History, MA, PhD
4. Editing Medieval Texts
   • History, PhD
5. Ethnic and Pluralism Studies
   • History, MA, PhD
6. Jewish Studies
   • History, MA, PhD
7. Sexual Diversity Studies
   • History, MA, PhD
8. South Asian Studies
   • History, MA, PhD
9. Women and Gender Studies
   • History, MA, PhD

Overview

The Department of History offers a broadly diversified program of graduate studies leading to the Master of Arts and Doctor of Philosophy degrees. The department has a special strength in gender history, medieval history, transnational history, colonialism, the Americas, Europe, and Russia. Courses are offered in the history of Canada; the United States; Medieval, Early Modern and Modern Europe and Britain; Eastern Europe; Russia; Latin America; Africa; South Asia; East Asia; Southeast Asia; International Relations; the History of Medicine and Women’s History.

The University of Toronto also offers rich resources outside the department to support the study of history. The Robarts Research Library, unrivaled in Canada and among the leading university libraries in North America, provides a foundation for a wide range of study. Specialized collections are located elsewhere in the university including in a number of centres and research institutes. The Centre for Medieval Studies and the Pontifical Institute of Mediaeval Studies have particularly strong resources for European and British medi- eval history. The Munk School of Global Affairs; the Institute for the History and Philosophy of Science and Technology; the Centre for Criminology and Sociolegal Studies; the Institute for Urban and Community Studies; as well as the Centre for European, Russian, and Eurasian Studies afford additional opportunities for interdepartmental work. The department participates in a number of interdisciplinary collaborative programs.

Contact and Address

Web: www.chass.utoronto.ca/history
Email: histgrad@chass.utoronto.ca
Telephone: (416) 978-3369

Department of History
University of Toronto
Sidney Smith Hall
Room 2074, 100 St. George Street
Toronto, Ontario M5S 3G3
Canada

Degree Programs

History

Master of Arts

Minimum Admission Requirements

- The closing date for applications to the MA program is January 15. Later applications will be considered only in exceptional circumstances.
- An appropriate bachelor’s degree from a recognized university with at least a B+ standing.
- Successful completion of at least 6.0 full-course equivalents (FCEs) in history. Applicants without adequate history training may be required to complete an appropriate number of undergraduate history courses before being considered for admission. In rare cases, an applicant may be admitted to the MA program but will be required to do one or two courses in addition to the MA program requirements.
- In addition to the School of Graduate Studies online application form, applicants must submit an information form, three letters of recommendation, a 500-word specific research proposal outlining a precise field and area of historical investigation, and a writing sample of no more than 3,000 words.
- Applicants who were educated outside Canada, whose primary language is not English, and who graduated from a university where the language of instruction was not English must demonstrate facility in the English language through the successful
Degree and Diploma Programs by Graduate Unit

Completion of the Test of English as a Foreign Language (TOEFL) with scores of at least:
- Paper-based TOEFL exam: 600 with 5 on the Test of Written English
- Internet-based TOEFL exam: 100/120 with 22/30 on the writing and speaking sections.

Program Requirements
- Students usually complete the MA by coursework and the HIS 2000Y paper. Some students may elect to complete the MA by coursework and thesis.
- After consulting with the Graduate Coordinator, all MA students are required to take either HIS 1997H or HIS 1201H.
- Students must achieve at least an overall B average in their courses to maintain standing.
- Students must also pass the required reading examination in a language other than English.
- The MA may be undertaken on a part-time basis.

Coursework and Paper
- 2.5 full-course equivalents (FCEs)—of which 0.5 must be either HIS 1997H or HIS 1201H—and present an MA thesis. The thesis MA might take longer than the course MA. The thesis must be presented within three years of entering the program (six years for the part-time MA).

Normal Program Length: 3 sessions full-time; 6 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements
- The closing date for applications to the PhD program is January 15. Later applications will be considered only in exceptional circumstances.
- Applicants may enter the PhD program via one of two routes:
  - Normally, with an MA degree in history or its equivalent with an A- average or better.
  - Exceptional students may be admitted by direct entry to the PhD program from the BA with an A- average or better,
- Applicants must satisfy the department of their ability to do independent research at an advanced level.
- In addition to the School of Graduate Studies online application form, applicants must submit an information form, three letters of recommendation, a 500-word specific research proposal outlining a precise field and area of historical investigation, and a writing sample of no more than 6,000 words.
- Applicants who were educated outside Canada, whose primary language is not English, and who graduated from a university where the language of instruction was not English must demonstrate facility in the English language through the successful completion of the Test of English as a Foreign Language (TOEFL) with scores of at least:
  - Paper-based TOEFL exam: 600 with 5 on the Test of Written English
  - Internet-based TOEFL exam: 100/120 with 22/30 on the writing and speaking sections.

Program Requirements
- Coursework
  - With MA degree in history: 2.0 full-course equivalents (FCEs) with a B+ average throughout coursework.
  - By direct entry: 4.5 FCEs, 1.0 of which must be HIS 1997H. Students must maintain an A- average in their first 2.0 FCEs in order to continue in the program.
- Residence requirement. PhD students are required to be in residence until they have passed their field examinations but no longer than a period of two years. Students must be in such geographical proximity as to be able to visit the campus regularly and participate fully in the University's activities associated with the program.
- Comprehensive examinations in three approved fields of history. At the beginning of their programs, students consult with the Associate Chair, Graduate to determine their fields and students will be assigned advisors. Three fields are required: a major and two minors. The major should coincide with the subject area that the student has chosen for the thesis, and the two minors should be in different areas. The comprehensive field examinations consist of a written examination in each field and a common oral examination covering all three fields. Students are required to take their field examinations by the spring of their second year in the program, but they are strongly advised to take them as soon as possible after the completion of their coursework. Examinations are held in January and April. Examinations cannot be postponed beyond the spring of the second year without permission of the Associate Chair, Graduate. The department's website contains a list of the fields offered.
• **Language requirements** vary with the student’s major area of study. If not already so qualified, a student must qualify in one language other than English by the beginning of the second year and may be asked to qualify in other program-related languages.

• **Thesis.** When all of the above requirements are completed, the candidate will proceed to write the PhD thesis and defend it at a doctoral final oral examination. The thesis must be a piece of original scholarship, approximately 350 pages (90,000 words) in length, exclusive of notes and bibliography. Thesis preparation is guided by a committee consisting of the major supervisor and two other faculty members. The thesis must be presented within six years of first enrolment in the full-time PhD program (within 7 years of first enrolment in the direct-entry PhD).

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

**Course List**

Not all courses are offered every year. Please consult the department’s list of current course offerings.

- **HIS 1004H** History and Biopolitics
- **HIS 1006H** Historiography “From Below”: Comparative and Critical Perspectives
- **HIS 1009H** Colonial Governmentality: Governing Economy and Culture
- **HIS 1010H** History by Numbers: The Uses and Misuses of Quantitative Evidence in History
- **HIS 1015H** Colonial Encounters and Postcolonial Theory
- **HIS 1016H** Readings in the History of Gender and Sexuality
- **HIS 1020H** Cultural Theory/Cultural History
- **HIS 1026H** Modernity and Its Others: History and Postcolonial (joint graduate/undergraduate)
- **HIS 1030H** Oral History: Theory, Methods, Practice
- **HIS 1035H** Historiography and Film Studies (joint graduate/undergraduate)
- **HIS 1036H** Early Cinema
- **HIS 1101H** Race and Gender in the Northern Colonies of North America
- **HIS 1104H** Natives and Empires: Colonial History of the Americas, 1492–1800
- **HIS 1105H** Colonial North America, 1600–1783
- **HIS 1106H** Topics in Canadian Social History
- **HIS 1107H** Religion, Culture and Society in Canada (joint graduate/undergraduate)
- **HIS 1109H** Readings in Canadian History
- **HIS 1111H** Topics in North American Environmental History (joint graduate/undergraduate)
- **HIS 1121H** Topics in Early Modern European Social History
- **HIS 1122H** Ritual in Renaissance and Early Modern Europe
- **HIS 1123H** Humanism and the Renaissance
- **HIS 1129H** The Sexes in the Western World, 1450–1650
- **HIS 11231H** Topics in French History
- **HIS 11232H** European Colonialism, 1870–1970: A Comparative History
- **HIS 11233H** Colonial Urbanism in the Mediterranean World, 1800–1950
- **HIS 11234H** Readings in Early Modern French History
- **HIS 11235H** History in/of the Mediterranean: From Braudel to Post-Colonialism
- **HIS 11237H** France: 1870–1968
- **HIS 11245H** Gender, Men and Women in Europe 1500–1900
- **HIS 11264H** Jewish Identity
- **HIS 11265H** Atrocities and Memory in Postwar Europe and North America
- **HIS 11267H** Nationalism
- **HIS 11268H** The Holocaust and World War II
- **HIS 11269H** The Social History of Medicine in the Nineteenth and Twentieth Centuries (joint graduate/undergraduate)
- **HIS 11270H** History of Psychiatry and Psychiatric Illness (joint graduate/undergraduate)
- **HIS 11271H** Modern Political Trials
- **HIS 11272H** Topics in Twentieth-Century European History
- **HIS 11275H** Imperial Germany, 1871–1918
- **HIS 11276H** The Third Reich and the Holocaust
- **HIS 11277H** Topics in Jewish History
- **HIS 11278H** Topics in Twentieth-Century German History
- **HIS 1112H** Canada in Comparative Contexts, Gender, Labour, Migration
- **HIS 1113H** Politics and Society in North American History
- **HIS 1114H** Indigenous Histories in North America
- **HIS 1115H** The World Car
- **HIS 1142Y** Canadian Foreign Relations, 1940–2003 (joint graduate/undergraduate)
- **HIS 1201H** The Materials of Medieval History (Credit/No Credit)
- **HIS 1207H** Pastoralia: The Medieval History of Pastoral Care
- **HIS 1208H** Writings of Robert Grosseteste
- **HIS 1209H** The Anglo-Saxons
- **HIS 1210H** Gregory of Tours and the Sixth Century
- **HIS 1213H** Medieval Institutes of Perfection (joint graduate/undergraduate)
- **HIS 1214H** The Merovingians
- **HIS 1215H** Social Change in Medieval England, 1154–1279
- **HIS 1218H** The Mediaeval Church (joint graduate/undergraduate)
- **HIS 1220H** Mediaeval Canon Law (joint graduate/undergraduate)
- **HIS 1221H** Topics in Early Modern European Social History
- **HIS 1222H** Ritual in Renaissance and Early Modern Europe
### Degree and Diploma Programs by Graduate Unit

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HIS 1279H</td>
<td>World War II in East Central Europe (joint graduate/undergraduate)</td>
<td>HIS 1540H</td>
<td>Cultures of American Capitalism</td>
</tr>
<tr>
<td>HIS 1280Y</td>
<td>History and Soviet Cinema (joint graduate/undergraduate)</td>
<td>HIS 1541H</td>
<td>Cultural History and the American Empire</td>
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<tr>
<td>HIS 1281H</td>
<td>History of Real Socialism</td>
<td>HIS 1543H</td>
<td>Topics in Material Culture</td>
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<tr>
<td>HIS 1282H</td>
<td>Totalitarian Culture</td>
<td>HIS 1545H</td>
<td>Race, Segregation and Protest: South Africa and the United States</td>
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<tr>
<td>HIS 1283H</td>
<td>Crusades, Conversion and Colonization in the Medieval Baltic (joint</td>
<td>HIS 1550H</td>
<td>Atlantic Labour Migrations</td>
</tr>
<tr>
<td>HIS 1284H</td>
<td>The Baltic World</td>
<td>HIS 1555H</td>
<td>Gender and Slavery in the Atlantic World, Seventeenth to Nineteenth</td>
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<tr>
<td>HIS 1285Y</td>
<td>The Ukrainian National Revival (joint graduate/undergraduate)</td>
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<td>Century</td>
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<tr>
<td>HIS 1286H</td>
<td>Categories of Imperial Russian Social History</td>
<td>HIS 1630H</td>
<td>Appeasement</td>
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<tr>
<td>HIS 1287H</td>
<td>Polish Jews Since the Partitions of Poland (joint graduate/undergraduate)</td>
<td>HIS 1632H</td>
<td>International Relations Field Seminar</td>
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<tr>
<td>HIS 1288H</td>
<td>The Age of Experiments (joint graduate/undergraduate)</td>
<td>HIS 1637H</td>
<td>Culture and the Cold War (joint graduate/undergraduate)</td>
</tr>
<tr>
<td>HIS 1289H</td>
<td>The Cold War Through Its Archives</td>
<td>HIS 1663H</td>
<td>Gender and East and Southeast Asia</td>
</tr>
<tr>
<td>HIS 1290H</td>
<td>Topics in Imperial Russian History</td>
<td>HIS 1664H</td>
<td>Religion and Society in Southeast Asia</td>
</tr>
<tr>
<td>HIS 1291H</td>
<td>Topics in Russian and Soviet Social History (joint graduate/undergraduate)</td>
<td>HIS 1665H</td>
<td>Gender and History in Colonial South Asia</td>
</tr>
<tr>
<td>HIS 1292H</td>
<td>The Russian Revolution (joint graduate/undergraduate)</td>
<td>HIS 1667H</td>
<td>Transnational Gender Histories</td>
</tr>
<tr>
<td>HIS 1293Y</td>
<td>Kievan Rus’ (joint graduate/undergraduate)</td>
<td>HIS 1668H</td>
<td>Topics in Early Modern Asian History</td>
</tr>
<tr>
<td>HIS 1294H</td>
<td>In the Soviet Archives: Text and History (joint graduate/undergraduate)</td>
<td>HIS 1673H</td>
<td>Critical Historiography of Late Imperial and Modern China</td>
</tr>
<tr>
<td>HIS 1295H</td>
<td>Soviet History Seminar</td>
<td>HIS 1675H</td>
<td>Imperial Circulation and Diasporic Flows in the British Empire</td>
</tr>
<tr>
<td>HIS 1296H</td>
<td>Stalinism and After: Beyond Cold War History</td>
<td>HIS 1677H</td>
<td>Empire and Nation in Modern East Asia</td>
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<tr>
<td>HIS 1297H</td>
<td>Problems of National Survival in Eastern Europe Since 1848 (joint graduate/undergraduate)</td>
<td>HIS 1678H</td>
<td>War and Memory in Twentieth-Century East Asia</td>
</tr>
<tr>
<td>HIS 1299H</td>
<td>Topics in Russian Intellectual History</td>
<td>HIS 1701H</td>
<td>Religion, Society and Empire in the Colonial Spanish Americas, 1492-1800</td>
</tr>
<tr>
<td>HIS 1411H</td>
<td>Theory and Practice in Early Modern British History</td>
<td>HIS 1704H</td>
<td>Latin America in the Age of Independence</td>
</tr>
<tr>
<td>HIS 1425H</td>
<td>British Social Realism and Cinema</td>
<td>HIS 1705H</td>
<td>Africa: Writing, Colonialism and Memory</td>
</tr>
<tr>
<td>HIS 1435H</td>
<td>Studies in Victorian Society</td>
<td>HIS 1706H</td>
<td>Decolonizing Research Methodologies</td>
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<tr>
<td>HIS 1440H</td>
<td>Irish Nationalism in Canada and the United States (joint graduate/undergraduate)</td>
<td>HIS 1707H</td>
<td>Topics in African History</td>
</tr>
<tr>
<td>HIS 1501H</td>
<td>Readings in Early American Political and Intellectual History</td>
<td>HIS 1708H</td>
<td>Labour in the Age of Imperialism</td>
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<tr>
<td>HIS 1519H</td>
<td>Thinking of Diversity: Historical Perspectives on American and Canadian Pluralisms</td>
<td>HIS 1709H</td>
<td>Conversion and Christianities in the Early Modern Spanish World (joint graduate/undergraduate)</td>
</tr>
<tr>
<td>HIS 1522H</td>
<td>Topics in Twentieth-Century U.S. History: Transnational Commodity Culture</td>
<td>HIS 1710H</td>
<td>Comparative Slavery in the Caribbean and Latin America</td>
</tr>
<tr>
<td>HIS 1524H</td>
<td>Topics in the History of Black America</td>
<td>HIS 1720H</td>
<td>Emancipate Yourselves from Mental Slavery? Historical Narratives of Caribbean Decolonization</td>
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<tr>
<td>HIS 1530H</td>
<td>Readings in Twentieth Century American Foreign Policy</td>
<td>HIS 1784H</td>
<td>The Islamic Revolution</td>
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<tr>
<td>HIS 1531H</td>
<td>American Political History Since 1877</td>
<td>HIS 1785H</td>
<td>International Relations in the Middle East</td>
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<tr>
<td>HIS 1532H</td>
<td>American Foreign Policy in the Cold War</td>
<td>HIS 1997H</td>
<td>The Practice of History (Credit/No Credit)</td>
</tr>
<tr>
<td>HIS 1533H</td>
<td>Gender and International Relations (joint graduate/undergraduate)</td>
<td>HIS 1998H,Y</td>
<td>Reading Course</td>
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<tr>
<td>HIS 1535H</td>
<td>Readings in International Relations History</td>
<td>HIS 1999H,Y</td>
<td>Reading Course</td>
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<tr>
<td>HIS 1538H</td>
<td>Reading in U.S. History</td>
<td>HIS 2000Y</td>
<td>Directed Research</td>
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<tr>
<td>HIS 1539H</td>
<td>Film Comedy and Popular Culture</td>
<td>JBP 2230H</td>
<td>Topics in International Politics</td>
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<td>JHP 1289Y</td>
<td>Twentieth Century Ukraine (joint graduate/undergraduate)</td>
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<td>JHP 1631H</td>
<td>Intelligence and International Relations</td>
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<td>JHP 2231H</td>
<td>The History and Philosophy of International Relations Thought</td>
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<tr>
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<td></td>
<td>JHP 2301Y</td>
<td>Linguistic and Cultural Minorities in Europe (joint graduate/undergraduate)</td>
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</tbody>
</table>

### Courses in Other Departments Taught by History Faculty

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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>COL 5027H</td>
<td>Memory, Trauma, and History</td>
</tr>
<tr>
<td>COL 5044H</td>
<td>A Journey from Petersburg to Los Angeles</td>
</tr>
<tr>
<td>MST 1110H</td>
<td>Diplomats and Diplomatic Editing</td>
</tr>
</tbody>
</table>

0 Course that may continue over a program. The course is graded when completed.
Degree and Diploma Programs by Graduate Unit

MST 3201H Medieval Social History
MST 3205H Violence in Medieval Society (joint graduate/undergraduate)
MST 3225Y Jews and Christians in Medieval and Renaissance Europe (joint graduate/undergraduate)
MST 3242H The Carolingians and the Birth of Europe
MST 3243H Dark Age Italy
MST 3262H Monastic Identities

Other Departments

Students may take courses from other departments for graduate history credit with permission of the Associate Chair, Graduate. Interested students should consult the appropriate calendar entries and departmental websites for current course offerings.

Graduate Faculty

Full Members
Abray, L Jane - BA, MA, MPH, PhD (Chair and Graduate Chair)
Aster, Sidney - BA, MA, PhD
Austin, Robert - BA, MA, PhD
Bartlett, Kenneth - BA, MA, PhD
Bender, Daniel Eric - BA, PhD
Bergen, Doris - MA, PhD
Birla, Ritu - BA, MPH, PhD
Blanchard, Peter - BA, PhD
Bohaker, Heidi - BA, BEd, MA, DPhil
Bothwell, Robert - BA, AM, PhD
Brown, Elspeth - MA, PhD
Chen, Li - BA, MA, JD, PhD
Chin, Carol - BA, MA, PhD
Cochelin, Isabelle - DipdEdSup, BA, MA, PhD
Cohen, Paul - AM, PhD
Dowler, E Wayne - BA, MA, PhD
Eksteins, Modris - BPhil, BA, DPhil
English, John - AM, PhD
Everett, Nicholas - BA, MA, PhD
Gervers, Michael - BA, MA, PhD
Goering, Joseph - BA, MA, MSL, PhD
Greer, Allan - BA, MA, PhD
Hall, Bert - BA, PhD
Halpern, Eric (Rick) - PhD
Hawkins, Sean - MA, PhD
Hood, Adrienne - PhD
Iacobovita, Franca - AB, AM, PhD
Ingham, John - BA, MA, PhD
Jenkins, Jennifer - BA, MA, PhD
Jennings, Eric - BA, PhD
Johnson, Robert - BA, PhD
Kasturi, Malavika - DPhil
Kawashima, Ken - BA, MA, PhD
Kazal, Russell - AB, MA, PhD
Keil, Charles - BA, MA, PhD
Kidd, Bruce - BA, AM, MA, PhD
King, Robert - AB, MA, PhD
Kivirae, Juri - AM, PhD
Lahusen, Thomas - MA, PhD
Lam, Tong - BSc, MA, PhD
Langins, Janis - BEng, MEng, MA, PhD
Loeb, Lori - BA, PhD (Coordinator of Graduate Studies)
MacDowell, Laurel - BA, MSc, PhD
MacMillan, Margaret - BPhil, DPhil
Magocsi, Paul - BA, MA, MA, PhD, Fell Royal Society Canada
Marrus, Michael - BA, MA, LLM, PhD
McGowan, Mark - BA, MA, PhD
Meyerson, Mark - BA, PhD
Mills, Kenneth - MA, PhD
Morgan, Cecilia Louise - BA, BA, MA, PhD
Mori, Jennifer - PhD
Murphy, Michelle - BA, PhD
Murray, Alexander - BA, PhD
Musi, Ankanya - Phd
Newton, Melanie - BA, PhD
Noel, Janet - BA, MA, PhD
Penfold, Steven - MA, PhD
Penslar, Derek - BA, MA, PhD
Phillips, James - LLB, MA, PhD
Pruissen, Ronald - BA, MA, PhD
Radforth, Ian - BA, MA, PhD
Retallack, James - BA, DPhil
Rockel, Stephen - AM, DPhil
Ross, Jill - MA, PhD
Rossos, Andrew - BA, MA, PhD
Rothman, Ella Natalie - MA, DPhil
Rutherford, Paul - BA, MA, PhD
Schmid, Andre - BA, MA, PhD
Shorter, Edward - BA, MA, PhD
Silano, Giulio - BA, LLB, BEd, MA, PhD
Smith, Alison - AM, PhD
Smyth, Denis - BA, PhD
Tamb, Ashwini - BA, MA, PhD
Tavakoli-Targhi, Mohammad - BA, MA, PhD
Terpstra, Nicholas - BA, MA, PhD
Todd, Barbara - BA, MA, DPhil
Tran, Nhung - MA, PhD
Troper, Harold - BA, MA, PhD
Viola, Lynne - BA, MA, PhD
Wark, Wesley - BA, MA, PhD
Wayne, Michael - BA, MA, PhD
Williams, Derek - DPhil
Wilson, David - BA, MA, PhD
Wittmann, Rebecca - AB, MA, PhD
Wrobel, Piotr Jan - MA, PhD

Members Emeriti
Accinelli, Robert - BA, MA, PhD
Beattie, John - BS, MA, PhD, Fell Royal Society Canada, Fell Ryl Historical Societ
Berger, Carl - BA, MA, PhD
Berman, Billam - BA, MA, PhD
Bliss, J Michael - BA, MA, PhD
Brown, Robert Craig - MA, PhD
Brownlee, John - BA, MA, MPH
Callahan, William - AB, MA, PhD
Cook, Ramsay - MA, PhD
Davis, Natalie - BA, MA, PhD
Dent, Julian - BA, MA, PhD
Dyck, Harvey - BA, MA, PhD
Estes, James - MA, PhD
Finlayson, Michael - BA, PhD

www.sgs.utoronto.ca/calendar/2011-12

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Degree and Diploma Programs by Graduate Unit

Goffart, Walter - AB, AM, PhD
Grendler, Paul - BA, MA, PhD
Helmstadter, Richard - BA, MA, PhD
Higgs, David - BA, MA, PhD
Israel, Milton - BS, MA, PhD
Klein, Martin - BS, MA, PhD
Kornberg, Jacques - BA, PhD
Levere, Trevor - BA, MA, DPhil
Lloyd, Trevor - BA, MA, DPhil
Morton, Desmond - BA, MA, PhD
Nelson, Wendy - BS, MHSc
Raby, David - BA, PhD
Robertson, Ian - BA, MA, PhD
Robson, Ann - BA, MA, PhD
Van Kirk, Sylvia - BA, MA, PhD
Wagle, Narendra - BA, MA, PhD

Associate Members

Hanssen, Jens - BPhil, DPhil
Kwee, Hui Kian - BA, MA, PhD
Mills, Sean - MA, PhD
Virani, Shafique - PhD
Young, William - MA, PhD
History and Philosophy of Science and Technology

Faculty Affiliation
Arts and Science

Degree Programs Offered
History and Philosophy of Science and Technology – MA, PhD
Fields:
- Philosophy of Science
- History of Mathematics and Physical Sciences
- History of Medicine and Life Sciences
- History of Technology

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Book History and Print Culture
   - History and Philosophy of Science and Technology, MA, PhD

Overview
The Institute for the History and Philosophy of Science and Technology (IHPST) offers two degree programs: Master of Arts and Doctor of Philosophy. The Institute conducts research, offers advanced studies programs, and serves as a focus for university-wide interest in its field.

Courses are open to all graduate students and are suitable complements for specialists in science or the humanities. Students participate in the IHPST colloquia, which are open to the University of Toronto community.

Admission is highly selective and competitive. Acceptance is based on a combination of grades, references, academic and professional accomplishments, areas of interest, and a sample of written work. All the forms required for application, including the standard application form, can be downloaded from the Institute's website. The website also contains detailed instructions for completing applications. Applications must be accompanied by transcripts, a statement of interest, letters of reference, and a writing sample of no more than 3,000 words. Application deadline is February 1. Applicants whose primary language is not English and who are not graduates of a university whose language of instruction is English must submit results of the Test of English as a Foreign Language (TOEFL) and (Test of Written English (TWE) with the following minimum scores:
- Paper-based TOEFL: 580 and 5 on the TWE
- Internet-based TOEFL: 93/120 and 22/30 on the writing and speaking sections

Program Requirements
- Minimum of 3.5 full-course equivalents (FCEs). Among these, each student must take either:

Contact and Address
Web: www.hps.utoronto.ca
Email: ihpst.info@utoronto.ca
Telephone: (416) 978-5397
Fax: (416) 978-3003
Institute for the History and Philosophy of Science and Technology
University of Toronto
Old Victoria College
Room 316, 91 Charles Street West
Toronto, Ontario M5S 1K7
Canada

Degree Programs
History and Philosophy of Science and Technology

Master of Arts

Minimum Admission Requirements
- General Regulations of the School of Graduate Studies
- An appropriate bachelor’s degree from a recognized university with an average grade of at least B+ in the final two years of undergraduate work. While the majority of accepted students exceed this standard, the very broad scope of the field and the variety of fruitful approaches to it also imply that many different backgrounds are appropriate. Accordingly, grades are only one criterion by which applicants are judged.
- Applications must be accompanied by a statement of interest of approximately 300–500 words, indicating the applicant's areas of interest in history and/or philosophy of science and technology at the graduate level. A writing sample is required.
- Application deadline is February 1.
- Applicants whose primary language is not English and who are not graduates of a university whose language of instruction is English must submit results of the Test of English as a Foreign Language (TOEFL) and (Test of Written English (TWE) with the following minimum scores:
  - Paper-based TOEFL: 580 and 5 on the TWE
  - Internet-based TOEFL: 93/120 and 22/30 on the writing and speaking sections

Program Requirements
- Minimum of 3.5 full-course equivalents (FCEs). Among these, each student must take either:
Minimum Admission Requirements

Doctor of Philosophy

Minimum Admission Requirements

- General Regulations of the School of Graduate Studies
- One of the following:
  - an appropriate bachelor's degree from a recognized university, with an average grade of at least a B+ in the applicant's overall program and of at least an A- in the applicant's final two years of study
  - a University of Toronto master's degree in History and Philosophy of Science and Technology or its equivalent from a recognized university with an average grade of at least an A- in the applicant's program and with no individual grade less than B+. While the majority of accepted students exceed this standard, the very broad scope of the field and the variety of fruitful approaches to it also imply that many different backgrounds are appropriate. Accordingly, grades are only one criterion by which applicants are judged.
- Applications must be accompanied by a statement of interest of approximately 300–500 words, indicating the applicant's areas of interest in history and/or philosophy of science and technology at the graduate level. A writing sample is required.
- Application deadline is February 1.
- Applicants whose primary language is not English and who are not graduates of a university whose language of instruction is English must submit results of the Test of English as a Foreign Language (TOEFL) and Test of Written English (TWE) with the following minimum scores:
  - Internet-based TOEFL: 93/120 and 22/33 on the writing and speaking sections
- Program Requirements
  - Students admitted on the basis of a bachelor's degree must complete 6.5 full-course equivalents (FCEs).
  - Students admitted on the basis of a master's degree in History and Philosophy of Science and Technology must take a minimum of 3.0 FCEs. A student whose MA degree does not exhibit sufficient breadth is required to take additional courses.
  - All students must include at least 0.5 FCE from each of the following three historical periods: pre-Renaissance (Classical Antiquity to AD 1400); Renaissance (AD 1400) to end of the eighteenth century; beginning of the nineteenth century to the present. The breadth requirement may be met with courses in either the History of Science Stream or the Philosophy of Science Stream.
  - The balance of the student's curriculum is arranged in consultation with the student's faculty instructors and is subject to the overall guidance of the Director of Graduate Studies. Students make choices consistent with a commitment to either a History of Science Stream or a Philosophy of Science Stream.
  - All supervision arrangements are reviewed and approved by the Director of Graduate Studies who assists in the search for a supervisor, if necessary. Proper supervision is a prerequisite for continuation in the program.
  - All required courses, including HPS 2000Y, should be completed by the end of the student's second post-bachelor year. In general, all students should maintain a cumulative average of at least A- with no individual grade less than B+. In addition, all students should receive at least an A- on the
HPS 2000Y research paper. Students falling below these standards may be recommended for termination from the program.

- Other competencies crucial to conducting research in the student’s thesis area, as determined by the Supervisory Committee in consultation with the student and the Director of Graduate Studies. This may include, for example, competence in another language, mathematics, a science, or sociology.
- Pass a qualifying examination in areas related to the field of expected research. Examination is conducted by the student’s Specialist Committee, normally three faculty members.
- Thesis proposal approved by the student’s thesis Supervisory Committee and the Director of Graduate Studies.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

## Course List

Not all courses are offered every year. Consult the institute regarding course offerings.

### History and Philosophy of Science and Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>HPS 1000Y</td>
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<td>HPS 1001H</td>
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<td>HPS 1002H</td>
<td>Individual Reading and Research</td>
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<td>HPS 1003H</td>
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<td>HPS 1005H</td>
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<td>HPS 1015H</td>
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<td>Topics in the History of Physics in the Eighteenth and Nineteenth Centuries</td>
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<td>HPS 1020H</td>
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<td>HPS 1021H</td>
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<td>HPS 1022H</td>
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<td>HPS 1026H</td>
<td>Body, Medicine, and Society in Early Modern Europe</td>
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<td>HPS 1027H</td>
<td>Chemistry from Lavoisier to Mendeleev</td>
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<td>HPS 1030H</td>
<td>Newton and Mechanics</td>
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<td>HPS 1036H</td>
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<td>HPS 1038H</td>
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<td>HPS 1041H</td>
<td>History of Medical Microbiology</td>
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<td>HPS 1042H</td>
<td>The Biology of Death: Experimental Biology and Experimental Medicine, 1860–1940</td>
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<td>HPS 1101H</td>
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<td>HPS 2000Y</td>
<td>Research Paper</td>
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<td>HPS 3000H</td>
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<td>HPS 3001H</td>
<td>The Marxist Theory of Knowledge and History</td>
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<td>HPS 5001H</td>
<td>Fundamentals of the History of Mathematics</td>
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<td>HPS 5002H</td>
<td>Fundamentals of the History of Physics</td>
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<tr>
<td>HPS 5004H</td>
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<tr>
<td>HPS 5005H</td>
<td>Fundamentals of the History of Biology</td>
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<tr>
<td>HPS 5006H</td>
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<td>HPS 5007H</td>
<td>Fundamentals of the History of Technology I</td>
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<td>HPS 5009H</td>
<td>Fundamentals of the History of Astronomy</td>
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<td>HPS 5010H</td>
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<td>HPS 5011H</td>
<td>Fundamentals of the History and Philosophy of Science and Technology</td>
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<td>HPS 5012H</td>
<td>Fundamentals of the History of Psychology</td>
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<td>HPS 5013H</td>
<td>Fundamentals of the History and Philosophy of the Social Sciences</td>
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<td>HPS 5014H</td>
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<td>JPH 2192H</td>
<td>Philosophy of Science</td>
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+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Degree and Diploma Programs by Graduate Unit

Outside Courses of Possible Interest
Check with individual departments for course availability during the academic year.

Book History and Print Culture
BKS 1001H Introduction to Book History
BKS 1002H Book History in Practice
BKS 2000H Advanced Seminar in Book History and Print Culture

Classics
CLA 5013H Studies in Ancient Science

History
HIS 1269H The Social History of Medicine in the Nineteenth and Twentieth Centuries
HIS 1270H History of Psychiatry and Psychiatric Illness
See Department of History entry for more course offerings.

McLuhan Program in Culture and Technology
(C&T courses offered only if there is sufficient enrolment)
C&T 1004H Communications in History, Theory, Technology

Philosophy
PHL 2010H Late Greek Philosophy: Plotinus
PHL 2096H Seminar in Analytic Philosophy: Early Analytic Philosophy
PHL 2131H Ethics
PHL 2132H Seminar in Ethics
PHL 2133H Topics in Ethics: Theories of the Good
PHL 2145H Bioethics
PHL 2051H The Rationalists: Spinoza’s Metaphysics
PHL 2171H Philosophy of Mind: Embodied and Extended Mind Theories
PHL 2172H Seminar in Philosophy of Mind: Conscious Life
PHL 2190H Philosophy of Language
PHL 2191H Seminar in the Philosophy of Language: Contextualism
PHL 2196H Topics in the Philosophy of Science
PHL 2199H Seminar in Philosophy of Science

Graduate Faculty

Full Members
Baigrie, Brian - BA, MA, PhD
Berkovitz, Joseph - BSc, MA, PhD
Brown, James - BA, MA, PhD
Castle, David - BA, BSc, MA, PhD
Chakravartty, Anjan - BSc, MPH, MA, PhD
Chazan, Michael - BA, BA, MA, PhD
Dacome, Lucia - BA, MPH, PhD

Fehige, Yiftach - MA, PhD, DTH
Fraser, Craig - BA, MA, PhD (Director of Graduate Studies)
Gayon, Jean - MA, MPH, PhD
Gillon, Brendan - BA, MA, AM, PhD
Gingras, Yves - BSc, MSc, PhD
Griffin, Nicholas - BA, PhD
Hehmeyer, Ingrid - MSc, MSA, PhD
Howson, Colin - BSc, PhD
Hull, James - BSc, MA, PhD
Huneman, Philippe - BM, MMath, PhD
Jones, Alexander - BA, PhD, Fell Royal Society Canada
Krementsov, Nikolai - PhD
Langins, Janis - BEng, MEng, MA, PhD
Lightman, Bernard - BA, MA, PhD
Matthen, Mohan - PhD
Morrison, Margaret - BA, MA, PhD
Murphy, Michelle - BA, PhD
Penfold, Steven - MA, PhD
Seager, William Edward - BA, MA, PhD
Stefanovic, Ingrid - BA, MA, PhD
Thompson, Paul - BA, MA, PhD
Upshur, Ross Edward - BSc, BA, MA, MD
Vicedo Castello, Maria - BA, MA, PhD
Walsh, Denis - BA, MPH, PhD
Warner, Jessica - BA, PhD
Wolfe, David - BA, MA, PhD
Yeang, Chen-Pang - BS, SM, PhD, ScD
Zeller, Suzanne - BA, MA, PhD

Members Emeriti
De Sousa, Ronald - BA, PhD
Goldstick, Daniel - BA, BPhil, DPhil
Hall, Bert - BA, PhD
Levere, Trevor - BA, MA, DPhil
Mazumdar, Pauline - MSc, MD, PhD
Solomon, Susan - BA, MA, PhD
Winsor, Mary - AB, MPH, PhD
Human Development and Applied Psychology

Faculty Affiliation
Ontario Institute for Studies in Education

Degree Programs Offered
Child Study and Education – MA
Developmental Psychology and Education – MA, MEd, PhD
School and Clinical Child Psychology – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Educational Policy
   - Developmental Psychology and Education, MEd, MA, PhD
2. Neuroscience
   - Developmental Psychology and Education, MA, PhD
   - School and Clinical Child Psychology, MA, PhD

Overview
The Department of Human Development and Applied Psychology currently offers three graduate programs:
1. Child Study and Education
2. Developmental Psychology and Education
3. School and Clinical Child Psychology

Consult the OISE Bulletin for further details of all graduate programs, including admission requirements, program requirements, and descriptions of programs as well as for information about financial support for students.

Students may begin the MEd program in Developmental Psychology and Education in September, January, or July, but all other programs in the department commence in September.

Note: The department strongly discourages student requests to transfer between programs.

Contact and Address
Web: http://hdap.oise.utoronto.ca
Telephone: (416) 978-0917
Fax: (416) 926-4713

Department of Human Development and Applied Psychology
The Ontario Institute for Studies in Education (OISE)
252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

Degree Programs

Child Study and Education
The MA in Child Study and Education program is offered at the Dr. Eric Jackman Institute of Child Study, a centre of professional teacher training and research in childhood and education, which includes a nursery-through-grade-6 Laboratory School. Eligible graduates are recommended to the Ontario College of Teachers for an Ontario Teachers Certificate of Qualification, which qualifies the holder to teach in the primary and junior divisions of Ontario schools (JK-grade 6). For students who choose research course electives and undertake an optional qualifying research paper (QRP), the program also provides the possibility of further graduate study.

Core ICS faculty teach the majority of program courses. Laboratory School teachers supervise practicum placements and internships in their classrooms, making direct links between research and practice. (Teachers in the public and private schools also mentor students’ practicum placements/internships.) Other graduate faculty in the Department of Human Development and Applied Psychology teach elective courses; students in the CSE program thus profit from participating in a research-oriented department.

Master of Arts

Minimum Admission Requirements
- An appropriate bachelor’s degree with the equivalent of a University of Toronto mid-B or better in the final year.
- Applicants are also expected to have experience working with groups of children, preferably in responsible positions.
- Normally an interview is required prior to admission.

Program Requirements
- Two years of full-time study. 8.0 full-course equivalents (FCEs), including practicum placements and an internship as follows.

Year 1
- HDP 2200Y Child Study: Observation, Evaluation, Reporting and Research
- HDP 2201H Childhood Education Seminar I
- HDP 2210Y Introduction to Curriculum I: Core Areas
- HDP 2220H Teaching Practicum
- 1.0 elective FCE (equivalent to two half courses)
- Four six-week half-day placements in kindergarten/early childhood, grades 1–3, and grades 4–6. A fifth placement is optional for those who would like more experience.
Registration in Year 2 of the program is contingent on successful completion of all Year 1 work.

Year 2
- HDP 2211H Theory and Curriculum I: Language and Literacy
- HDP 2212H Theory and Curriculum II: Mathematics
- HDP 2214H Introduction to Curriculum II: Special Areas
- 0.5 elective FCE
- 3.5 month full-time internship (HDP 2221Y Advanced Teaching Practicum) to be taken in one session.

During the internship session of Year 2, students are required to take HDP 2202H Childhood Education Seminar II: Advanced Teaching, and another 0.5 elective FCE.

In both years, electives may be chosen from among master’s level courses in the Department of Human Development and Applied Psychology, and, in some cases, other departments. Elective courses that are especially recommended to CSE students are listed in the Human Development and Applied Psychology Program Guidelines.

Students who wish to qualify for a condensed version of OISE’s Special Education Part 1 Additional Qualifications (AQ) course must meet coursework and practicum requirements.

Students planning further graduate study in the foreseeable future are advised to undertake a Qualifying Research Paper (QRP) normally under the supervision of a qualified ICS faculty member.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Developmental Psychology and Education

The Developmental Psychology and Education program offers studies leading to the MA, MEd, and PhD degrees. Students have an opportunity to construct an overall perspective on developmental psychology and human development and their implications for practice with children in educational and other applied settings.

Students take foundation courses in human development and research methodology. Elective courses cover a range of areas including cognitive, social and emotional development; cognition and instruction (language, literacy, and mathematics); special education and adaptive instruction; developmental neuroscience; advanced research methodology and evaluation; and early childhood policy and programs, including child care. The MA and PhD programs are designed for students wishing to pursue an academic or research-based career. The MEd program is designed for the reflective teacher or other practitioner in education or related fields.

Master of Arts

Minimum Admission Requirements
- An appropriate bachelor’s degree with the equivalent of a University of Toronto A- or better. Although most applicants will have a degree in psychology, applicants with an appropriate bachelor’s degree in cognitive science, computer science, linguistics, or a helping profession such as occupational therapy, speech-language pathology, physiotherapy, nursing, social work, or another discipline relevant to their specific program of study are also eligible to apply for admission.

Program Requirements
- 3.0 full-course equivalents (FCEs) plus a thesis. Courses should be chosen in consultation with the advisor.
  - HDP 1209H Research Methods and Thesis Preparation in Human Development and Applied Psychology
  - HDP 1288H Intermediate Statistics and Research Design
  - HDP 2252H Individual Reading and Research in Human Development and Applied Psychology: Master’s Level
  - Additional courses from the MA required courses listed in the Departmental Guidelines menu
  - Students who have not had a previous course in human development are required to take HDP 1201H Child and Adolescent Development or an equivalent.
  - Students who have not had a previous course in statistics are required to take HDP 1287H Introduction to Applied Statistics or an equivalent course.

Normal Program Length: 3 sessions full-time
Time Limit: 3 years full-time

Master of Education

Minimum Admission Requirements
- Admission to the MEd program normally requires an appropriate bachelor’s degree with standing equivalent to a University of Toronto mid-B or better.
- Applicants normally possess a teaching certificate and have one year of relevant professional experience.

Program Requirements
- The MEd program may be undertaken on a full-time or part-time basis. The length of time required to
complete the program will vary depending on full-time or part-time status.

- 5.0 full-course equivalents (FCEs)

**Year 1**
- **HDP 1200H Foundations of Human Development and Education**
- **HDP 2293H Interpretation of Educational Research**

- 2.0 additional FCEs must be selected from the Department Electives list, available on the departmental website or in the Human Development and Applied Psychology Program Guidelines.

- Remaining 2.0 elective FCEs may be taken from within or outside the department. Elective courses must be chosen in consultation with the student’s faculty advisor. Students are asked to meet with their faculty advisor in the first session of their program.

**Time Limit:** 3 years full-time; 6 years part-time

**Doctor of Philosophy**

The Developmental Psychology and Education program offers both a full-time and a flexible-time PhD program option. Applicants must declare the option for which they are interested in applying.

**Minimum Admission Requirements**

**Full-Time PhD**
- Normally, an appropriate bachelor’s degree and a master’s degree in developmental psychology and education, cognitive psychology, applied developmental psychology, or child study, with standing equivalent to a University of Toronto A- or better in the master’s degree. Applicants with master’s degrees in other disciplines such as adult education, anthropology, computer science, curriculum, philosophy, or a profession such as speech-language pathology, nursing, social work, physiotherapy, or occupational therapy may be eligible to apply for admission, but may have to complete additional courses to fulfil master’s level requirements equivalent to a University of Toronto A- or better in the master’s degree.

**Flexible-Time PhD**
- Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option. However, in addition, applicants to the flexible-time PhD should demonstrate that they are active professionals engaged in activities relevant to their proposed program of study. See the OISE Bulletin for more information.

**Program Requirements**
- Degree requirements for full-time and flexible-time PhD programs are the same.
- 3.0 full-course equivalents (FCEs), a comprehensive examination, and a thesis. Courses should be chosen in consultation with the faculty advisor.

**Year 1**
- **HDP 3200H Research Proseminar in Human Development and Applied Psychology**
- A 0.5 FCE in statistics and research methods from an approved menu
- A 1.0 FCE from the DPE doctoral program menu
- A 1.0 elective FCE

- Students who have an insufficient background in developmental psychology may have to complete additional courses.

**Normal Program Length:** 4 years full-time; 6 years flexible-time

**Time Limit:** 6 years full-time; 8 years flexible-time

**School and Clinical Child Psychology**

The School and Clinical Child Psychology program (SCCP) is a Canadian Psychological Association (CPA) accredited program. It provides theoretical, research, and professional training in preparation for psychological work with children in schools, clinics, private practice, and research settings. The program is designed to provide training in assessment, therapy, and other psychosocial and instructional interventions, professional consultation, and prevention. The degrees are also intended to meet the academic requirements for registration as a psychological associate (MA) or psychologist (PhD). Opportunities are available for research and clinical work with infants, young children, adolescents, and families.

The curriculum of the SCCP Program is designed to establish a strong foundation of core knowledge and skills early in the program, with students free to specialize later on. The program reflects a mix of courses and training opportunities.

A systemic approach is the basis for the training that is provided in assessment and intervention. The knowledge and skills necessary for the practice of school psychology and clinical child psychology overlap considerably, and experience in school and clinical settings complement and enhance each other. Therefore, over the course of the program of study, students are required to undertake practica in both school and clinical child settings.
Master of Arts

Minimum Admission Requirements

- An appropriate bachelor’s degree in psychology, defined as 6.0 full-course equivalents (FCEs) in psychology, including 0.5 FCE in child development and 1.0 FCE in research methods/statistics (of which at least 0.5 FCE must be at the third- or fourth-year levels) and at least 3.0 FCEs at the third- or fourth-year levels. The usual admission standard is equivalency to a University of Toronto A- or better.
- Most applicants will have evidence of relevant professional experience and research experience.
- Applicants are requested to submit, in addition to two academic references, a letter of recommendation from an applied setting.

Program Requirements

- The program is undertaken on a full-time basis and normally takes two years to complete.
- 5.0 FCEs (including a practicum course) and a thesis.
  - HDP 1215H Psychological Assessment of School-Aged Children
  - HDP 1216H Psychoeducational Assessment
  - HDP 1218H Seminar and Practicum in Assessment
  - HDP 1219H Ethical Issues in Applied Psychology
  - HDP 1220H Introduction to School and Clinical Child Psychology
  - HDP 1236H Developmental Psychopathology
  - HDP 1285H Psychology and Education of Children with Learning Disabilities
  - HDP 1288H Intermediate Statistics and Research Design
  - 0.5 FCE in cognitive/affective bases of behaviour from an approved course listing. (Note: Students who have a 1.0 FCE in cognitive/affective bases of behaviour at the undergraduate level approved by the program may substitute an elective course for this requirement.)
  - 0.5 elective FCE.
  - A listing of approved cognitive/affective bases of behaviour courses is available on the department website and in the Human Development and Applied Psychology Program Guidelines.
  - The practicum portion of HDP 1218H consists of 250 hours (one day a week from September to June) and is normally taken in a school setting.

- In addition, students will be required to take HDP 1201H Childhood and Adolescent Development and HDP 1287H Introduction to Applied Statistics, if equivalent courses have not been taken previously.

- Students must achieve a minimum of A- in at least one of HDP 1215H Psychological Assessment of School-Aged Children and HDP 1216H Psychoeducational Assessment and must pass HDP 1218H Seminar and Practicum in Assessment and Intervention with Children in order to remain in good standing and be permitted to continue in the program.
- Failure to meet these criteria will normally result in a recommendation to the School of Graduate Studies to terminate the student’s registration in the program.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

Full-Time PhD

- Normally, an appropriate bachelor’s degree in psychology or its equivalent and a University of Toronto MA in SCCP or its equivalent. The usual admission standard is equivalency to a University of Toronto A- or better in the master’s degree. A limited number of outstanding applicants holding equivalent bachelor’s and master’s degrees in psychology from elsewhere may be considered. However, if the master’s program was not equivalent to the University of Toronto MA in School and Clinical Child Psychology, the student will be required to take additional courses to receive equivalent training.

Flexible-Time PhD

- Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option. However, in addition, applicants to the flexible-time PhD should demonstrate that they are active professionals engaged in activities relevant to their proposed program of study. See the OISE Bulletin for more information.

Program Requirements

- 5.0 FCEs, including a doctoral practicum course and an internship course, as follows:
  - HDP 3222Y Approaches to Psychotherapy Across the Lifespan
  - HDP 3240H Advanced Social and Emotional Assessment Techniques
  - HDP 3241H Seminar and Practicum in Assessment and Intervention with Children (normally taken in Year 2 of the program). The practicum portion of HDP 3241H consists of 500 hours (two days a week from September to June) and is normally taken in a clinical setting.
HDP 3242Y Internship in School and Clinical Child Psychology. The internship consists of a 1,600-hour placement, normally taken on a full-time basis over the course of a year near the end of the student’s program.

- 1.0 FCE from the Instructional Interventions menu.
- 0.5 FCE from each of the following menus (for a total of 1.5 FCEs): Psychosocial Interventions, Social Bases of Behaviour, and Biological Bases of Behaviour. Note: Students who have a 1.0 FCE in Social Bases of Behaviour at the undergraduate level approved by the program may substitute an elective course for this requirement. Students who have a 1.0 FCE in Biological Bases of Behaviour at the undergraduate level approved by the program may substitute an elective course for this requirement. A listing of courses in these menus is available on the department website and in the Human Development and Applied Psychology Program Guidelines.

- a comprehensive examination
- a doctoral dissertation
- Students must have successfully completed all coursework, passed the comprehensive examination, and have their dissertation completed or well underway, prior to commencing their internship.

In addition, students will be required to take HDP 1201H Child and Adolescent Development, HDP 1287H Introduction to Applied Statistics, and HDP 3204H Contemporary History and Systems in Human Development and Applied Psychology, if equivalent courses have not been taken previously.

- Students must achieve a minimum of A- in at least one of HDP 1215H Psychological Assessment of School-Aged Children and HDP 1216H Psychoeducational Assessment and must pass HDP 1218H Seminar and Practicum in Assessment and HDP 3241H Seminar and Practicum in Assessment and Intervention with Children in order to remain in good standing and be permitted to continue in the program.

- Failure to meet these criteria will normally result in a recommendation to the School of Graduate Studies to terminate the student’s registration in the program.

Normal Program Length: 4 years full-time
Time Limit: 6 years full-time; 8 years flexible-time

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Degree and Diploma Programs by Graduate Unit

HDP 2214H  Introduction to Curriculum II: Special Areas
HDP 2220H  Teaching Practicum
HDP 2221Y  Advanced Teaching Practicum
HDP 2275H  Technology for Adaptive Instruction and Special Education
HDP 2280H  Introduction to Special Education and Adaptive Instruction
HDP 2283H  Psychology and Education of Gifted Children and Adolescents
HDP 2287H  Classroom-Based Counselling Approaches
HDP 2288H  Reflective Teaching and Analysis of Instruction
HDP 2292H  Assessment for Instruction
HDP 2293H  Interpretation of Educational Research
HDP 3200H  Research Proseminar in Human Development and Applied Psychology
HDP 3201H  Qualitative Research Methods in Human Development and Applied Psychology
HDP 3203H  Children's Theory of Mind
HDP 3204H  Contemporary History and Systems in Human Development and Applied Psychology
HDP 3205H  Social and Moral Development
HDP 3208H  Adolescence
HDP 3209H  Psychology of Language and Literacy
HDP 3221H  Cross-Cultural Perspectives on Children's Problems
HDP 3222Y  Approaches to Psychotherapy Across the Lifespan
HDP 3224H  Advanced Proactive Behavioural and Cognitive-Behavioural Interventions
HDP 3225H  Developmental Trajectories and High Risk Environments
HDP 3226H  Research Methods and Doctoral Thesis Preparation in Human Development and Applied Psychology
HDP 3227H  Multi-Level Modelling in Social Scientific and Educational Research
HDP 3229H  Cognition and Emotion in Development
HDP 3230H  Understanding Narrative
HDP 3231H  Psychodynamic Bases of Therapy
HDP 3233H  Special Topics in Human Development and Applied Psychology
HDP 3240H  Advanced Social and Emotional Assessment Techniques
HDP 3241H*  Seminar and Practicum in Assessment and Intervention with Children
HDP 3242Y  Internship in School and Clinical Child Psychology
HDP 3243H  Additional PhD Practicum
HDP 3255H  Systemic Family Therapy
HDP 3282H  The Psychology of Critical Thinking
HDP 3286H  Developmental Neurobiology
HDP 3292H  Advanced Psychoeducational Assessment and Psychodiagnosis
HDP 3297H  Biological and Psychological Foundations of Low Incidence Disorders
HDP 5271Y  Assessment and Programming for Reading and Writing Difficulties
HDP 5281H  Research and Theories of Reading Disability
HDP 5284Y  Assessment and Intervention in Multicultural/Bilingual Contexts
HDP 5284H  Assessment and Intervention in Multicultural/Bilingual Contexts
JDS 1233H  Cognitive Development and Applications
JDS 1249H  Social-emotional Development and Applications
JDS 3000H  Advanced Methods in Developmental Science
JHC 1251H  Reading in a Second Language
JPX 1001H  Parenting: Multidisciplinary Perspectives

Individual Reading and Research Courses

HDP 2295H  Individual Reading and Research in Adaptive Instruction and Special Education: Master's Level
HDP 3252H  Individual Reading and Research in Human Development and Applied Psychology: Doctoral Level

Graduate Faculty

Full Members

Arnold, Mary Louise - BA, MA, EdD
Astington, Janet - BSc, BA, MA, PhD
Atkinson, Leslie - PhD
Barrera, Maria - MA, PhD
Biemiller (Jr), Andrew - BA, MS, PhD
Chen, Xi (Becky) - BA, MEd, MA, PhD
Childs, Ruth - BS, MA, PhD
Cohen, Nancy - BSc, MSc, PhD
Corter, Carl - BA, PhD
Cumming, Alister - BA, MA, PhD
Ducharme, Joseph - BA, MPSY, PhD
Ferrari, Michel - BA, MA, PhD
Geva, Esther - BA, MA, PhD (Chair and Graduate Chair)
Grusec, Joan - BA, PhD
Helwig, Charles - BA, PhD
Jenkins, Jennifer - BA, MA, PhD
Keating, Daniel - BA, MA, PhD
Lee, Kang - BSc, MEd, PhD
Lewis, Marc - BA, MA, PhD
Manassis-Krumma, Katharina - MD
Mendlovitz, Sandra - PhD
Moore, Chris - BA, PhD
Pelletier, Janette - AB, BE, MEd, PhD
Perlman, Michael - BA, MA, PhD
Peskin, Joan - BA, MPSY, PhD
Peterson-Badali, Michele - BA, MA, PhD
Rovet, Joanne - BSc, PhD
Scardamalia, Marlene - PhD
Schachar, Russell James - MD

* Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Degree and Diploma Programs by Graduate Unit

Human Development and Applied Psychology

Schmuckler, Mark - BA, PhD
Scott, Katreena - BA, MA, PhD
Tannock, Rosemary - BSc, MA, PhD
Taylor, Margot - BA, MA, PhD
Volpe, Richard - BA, MA, PhD
Wiener, Judith - BA, MEd, PhD
Willows, Dale - PhD
Wolfe, Richard - BA
Woodruff, Earl - MA, PhD (Associate Chair)
Zelazo, Philip - PhD
Zucker, Kenneth - MA, PhD

Members Emeriti
Lindsay, Peter - BA, MA, PhD
Miezitis, Solveiga - BA, MA, PhD
Oatley, Keith - BA, PhD
Olson, David - BEd, MEd, PhD

Associate Members
Arnold, Paul - BSc, MD
Caspary, Arthur - BSc, MSc, PhD
Deacon, Helene - BS, PhD
Eriks-Brophy, Alice - BEd, AB, MSL, PhD
Helms-Park, Rena - BA, MA, AM, DPhil
Henderson, Joanna - BA, MA, PhD
Hong, Guanglei - BA, MA, MEd, PhD
Link, Nancy - BA, PhD
Martinussen, Rhonda - BE, MEd, PhD
McBride, Hazel - BA, BEd, MPSY, PhD
Milligan, Karen - BA, MA, PhD
Moran, Greg - BA, MA, PhD
Moss, Joan - BA, MA, PhD
O’Connor, Tom - BA, MA, PhD
Roncadin, Caroline - BSc, MA, PhD
Tackett, Jennifer - BA, MA, PhD
Toneatto, Anthony - PhD
Wade-Woolley, Lesly - MA, PhD
Wilansky-Traynor, Pamela - PhD
Wu, Helen Xiaoyan - MA, PhD
Faculty Affiliation
Medicine

Degree Programs Offered
Immunology – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Developmental Biology
   - Immunology, MSc, PhD
2. Resuscitation Sciences
   - Immunology, MSc, PhD
3. Women’s Health
   - Immunology, MSc, PhD

Overview
The Department of Immunology provides a common forum for investigators in many areas of the University and an interdisciplinary research experience in immunology. Members and students in the department are located at the Medical Sciences Building, at the Ontario Cancer Institute, and at the Research Institutes of Mt. Sinai Hospital, Toronto General Hospital, Toronto Western Hospital, the Hospital for Sick Children, and Sunnybrook Hospital.

The department offers study programs towards the Master of Science and Doctor of Philosophy degrees in a wide range of immunological disciplines. These disciplines include molecular mechanisms of lymphocyte development and selection, T-cell and B-cell receptors, cell interactions, growth factor receptors, cytokine networks, antigen processing and presentation, signal transduction in lymphocytes, V(D)J recombination, energy, apoptosis, transgenic and knock-out models, immuno-targeting and vaccine design, autoimmunity, AIDS, diabetes, and transplantation.

For more detailed information, see the graduate handbook available from the department or consult the Immunology home page on the website listed below.

Contact and Address
Web: www.immunology.utoronto.ca
Email: graduate.immunology@utoronto.ca
Telephone: (416) 978-6382
Fax: (416) 978-1938

Degree Programs

Immunology

Master of Science
Minimum Admission Requirements
- An appropriate BSc, or its equivalent, normally with at least a B+ average and a strong background in molecular and cellular biology. Applicants lacking adequate training in biological or natural sciences may be advised to do extra coursework necessary for their research.
- Applicants from outside North America are required to provide GRE (general) scores with their application.

Program Requirements
- Successful completion of IMM 1016H, IMM 1019H and IMM 2021H.
- A satisfactory thesis embodying the student’s research.
- Pass an oral examination based on research.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy
Minimum Admission Requirements
There are three admission routes to the PhD program:
- Applicants may be accepted for direct entry with a BSc degree, or equivalent, with at least an A- average in their final year.
- Applicants may be accepted first into the MSc program from a bachelor’s program with at least a B+ average and, conditional on excellent performance in the first year, may reclassify into the PhD program.
- Applicants already holding an MSc with at least a B+ average may be accepted directly into the PhD program.

Program Requirements
- The PhD program emphasizes research. In addition, the program requirements include completion of
Degree and Diploma Programs by Graduate Unit

IMM 1016H, IMM 1017H, IMM 1100H, IMM 2100H, and an additional 0.5 full-course equivalent (FCE) from either Immunology or outside the department in a subject relevant to the thesis topic.

- Students are required to be on campus and participating full-time until the program requirements of research and coursework have been completed.
- All students are examined in the second year of the program on a submitted research proposal and on relevant course material.
- Candidates must submit a thesis and defend it at a doctoral final oral examination conducted by the School of Graduate Studies.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List
Not all courses are offered every year. Please consult the department for details.

IMM 1016H Recent Advances in Basic Immunology: Part I (Fall)
IMM 1017H* Recent Advances in Basic Immunology: Part II (Spring)
IMM 1019H Master's Seminar Course (Credit/No Credit)
IMM 1020H Recent Advances in Clinical Immunology (Spring)
IMM 1100H Doctoral Seminar Course (Credit/No Credit)
IMM 1429H Developmental Immunology (Fall)
IMM 1430H Advanced Immunobiology (Spring)
IMM 2021H Special Topics in Immunology I (Credit/No Credit)
IMM 2100H Special Topics in Immunology II (Credit/No Credit)
IMM 1428H Molecular Immunology (Fall)

Graduate Faculty

Full Members
Anderson, Michele - BS, PhD
Barber, Brian - BSc, MSc, PhD
Berger, Stuart - BSc, MSc, PhD (Coordinator of Graduate Studies)
Berinstein, Neil - MD
Booth, James - BSc, PhD
Carlyle, James - PhD
Danska, Jayne - AB, PhD
Dosch, Hans - MD
Fish, Eleanor - BSc, MPH, PhD

Gommerman, Jennifer - BSc, PhD
Gorczynski, Reginald - BSc, BA, MA, MD, PhD
Guidos, Cynthia - BSc, PhD
Hakem, Razqallah - PhD
Inman, Robert - BA, MD
Iscoy, Norman - MD, PhD
Isenman, David - BSc, BSc, PhD
Jongstra, Jan - MSc, PhD
Julius, Michael - BSc, PhD
Kaul, Rupert - MD, PhD
Kelvin, David - MA, Sc, PhD
Letarte, Michelle - BSc, PhD
Levy, Gary - BSc, MD
MacDonald, Kelly - MD
Mak, Tak - BSc, MSc, PhD
Martin, Alberto - BSc, MSc, PhD
Ohashi, Parn - BSc, PhD
Ostroumow, Mari - MD
Paige, Christopher - BSc, PhD
Penninger, Josef - MD
Philpott, Dana - BS, PhD
Poussier, Philippe - MD
Ratcliffe, Michael - PhD (Chair and Graduate Chair)
Rottapel, Robert - BA, MD
Rubin, Laurence - MD
Schuh, Andre - MD
Silverman, Earl - MD
Siminovitch, Katherine - MD
Tsui, Florence - BSc, MSc, PhD
Watts, Tania - BSc, PhD
Williams, David - BSc, MSc, PhD
Williams, Joan - MD, PhD
Wu, Gillion - BSc, MSc, PhD
Yeung, Rae - Dr, Med, MD
Zhang, Li - MSc, MD, PhD
Zuniga-Pflucker, Juan Carlos - BSc, PhD

Members Emeriti
Hay, John - BSc, MSc, PhD
Painter, Robert - BSc, PhD
Shulman, Marc - AB, PhD

Associate Members
Ehrhardt, Rudolf - MS, PhD
Jongstra-Bilen, Jenny - BSc, MSc, PhD
Keystone, Edward - BSc, MD
Mallevaey, Thierry - MSc, PhD
Rast, Jonathan - MS, PhD

0 Course that may continue over a program. The course is graded when completed.
+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Degree and Diploma Programs by Graduate Unit

Industrial Relations and Human Resources

Faculty Affiliation
Arts and Science

Degree Programs Offered
Industrial Relations and Human Resources – MIRHR, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. **Ethnic and Pluralism Studies**
   - Industrial Relations and Human Resources – MIRHR, PhD

Overview
The Master of Industrial Relations and Human Resources (MIRHR) and Doctor of Philosophy (PhD) degree programs benefit students who are interested in advanced academic study leading to career opportunities in human resources management; labour-management relations; collective bargaining and dispute resolution; organization development and change; and labour market and social policy. The MIRHR degree may be taken on a full-time or part-time basis.

The **MIRHR** is a professional degree program designed to train students in the latest innovations and best practices within industrial relations, human resources management and labour market analysis. The degree provides specialized study of the employment relationship using an interdisciplinary approach. Integral to the MIRHR degree is training in the essential analytical, research and interpersonal skills required of the effective industrial relations professional.

The **PhD** in Industrial Relations and Human Resources program is a research-oriented program of study, designed to provide students with a thorough knowledge of the field and strong research skills. Offered only on a full-time basis, students normally fulfil a two-year residency requirement that enables their full participation in the activities associated with the program.

Contact and Address
Web: www.cirhr.utoronto.ca
Email: cir.info@utoronto.ca
Telephone: (416) 978-0551
Fax: (416) 978-5696
Centre for Industrial Relations and Human Resources
University of Toronto
121 St. George Street
Toronto, Ontario MSS 2E8
Canada

Degree Programs

Industrial Relations and Human Resources

Master of Industrial Relations and Human Resources

Minimum Admission Requirements
- Applicants to the two-year MIRHR program require an appropriate bachelor’s degree from a recognized university. A minimum grade average of B+ in each of the final two years of the degree is required.
- Applicants to the 12-month MIRHR advanced-standing option require an appropriate bachelor’s degree from a recognized university. The degree major or specialization must be in one of the following areas: employment relations, industrial relations, or labour studies; or administration or commerce with a major in industrial relations or human resources. A minimum grade average of B+ in each of the final two years of the degree is required.
- Applicants whose degrees are not from Canadian universities are required to submit results from the Graduate Record Examination (GRE). The Graduate Management Admission Test (GMAT) scores will be accepted as a substitute. Although there is no minimum score requirement, performance on either the GRE or GMAT will be taken into consideration by the admissions committee. Test results more than five years old are normally not considered.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must write the Test of English as a Foreign Language (TOEFL). The following minimum scores are acceptable:
  - Paper-based TOEFL exam: 600 and 5 on the TWE
  - Internet-based TOEFL exam: 100/120 and 22/30 on the writing and speaking sections
- Note: Due to space limitations, applicants meeting the minimum admission requirements are not guaranteed admission. Applicants are evaluated on their individual merits; the Centre for Industrial Relations and Human Resources reserves the right to select qualified applicants to the program. All admission decisions are final.

Program Requirements
- Each student’s program of courses must be approved by the Coordinator of Graduate Studies. If chosen courses appear to overlap to a large degree, approval may be denied.
Two-Year MIRHR Program

- Year 1 of the two-year program is spent acquiring a foundation in industrial relations and human resources and includes courses in economics, law, quantitative methods, organizational behaviour, and sociology. Courses marked (PR) require pre requisites; further information may be obtained from the centre.

Year 1: Foundation Courses

Students must take 5.0 full-course equivalents (FCEs), of which 4.0 are required courses, as follows:

- IRE 1002H Applied Statistics in Industrial Relations (Exclusion: CRI 2020H Applied Statistics in Criminology)
- IRE 1010H Economic Environment of Industrial Relations and Human Resources
- IRE 1126H Labour Market Policy (PR)
- IRE 1362H Organizational Behaviour (Exclusion: MGT 1362H Managing People in Organizations)
- IRE 1609H Strategic Human Resources Management (Exclusion: MGT 2609H Strategic Human Resources Management)
- IRE 1610H Industrial Relations (Exclusion: MGT 2610H Industrial Relations)
- IRE 1611H Sociology of Industrial Relations

Plus one of the following law courses:

- IRE 1270H Law of Labour Relations (PR)
- IRE 1338H Law in the Workplace (PR)

Courses are chosen from the list of elective courses below to fill the requisite 5.0 FCEs in the first year of the program.

- Students admitted into the two-year MIRHR program may apply to take IRE 4000H, a non-credit course designed to assist students to gain summer employment in a position that will provide them work experience relevant to their field of study.
- Students in the MIRHR program are required to achieve a mid-B average in the first year of the program (or in the first 5.0 FCEs) in order to continue or to pass into Year 2.

Year 2: Core Courses

Students must take 4.0 FCEs to complete Year 2. This includes core courses in Industrial Relations and Human Resources (1.5 FCEs):

- IRE 2001H Foundations and Current Issues in Industrial Relations and Human Resources (PR)
- IRE 2002Y Research Methods in Industrial Relations and Human Resources (PR)

Courses are chosen from the list of elective courses below to fill the requisite 4.0 FCEs in the second year of the program.

Advanced-Standing Option: 12-Month MIRHR Program

- Students admitted into the 12-month MIRHR advanced-standing option will have completed many of the foundation courses in industrial relations and human resources.
- Students will take both foundation and core courses simultaneously in the three sessions of study (September–August). During this time, students will also take elective courses to increase their breadth of knowledge or to focus on their areas of interest. Students must take 7.0 full-course equivalents (FCEs), of which 3.5 are required courses, as follows:

- IRE 1010H Economic Environment of Industrial Relations and Human Resources
- IRE 1126H Labour Market Policy (PR)
- IRE 1611H Sociology of Industrial Relations
- IRE 2001H Foundations and Current Issues in Industrial Relations and Human Resources (PR)
- IRE 2002Y Research Methods in Industrial Relations and Human Resources (PR)

Plus one of the following law courses:

- IRE 1270H Law of Labour Relations (PR)
- IRE 1338H Law in the Workplace (PR)

Courses are chosen from the list of elective courses below to fill the requisite 7.0 FCEs in the program.

- Students in the MIRHR program are required to achieve a mid-B average in the first two sessions of the program (or in the first 5.0 FCEs) in order to continue into the third session.

Normal Program Length: 3 sessions advanced-standing MIRHR; 6 sessions two-year MIRHR

Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Students are admitted under the General Regulations of the School of Graduate Studies and require a Master of Industrial Relations and Human Resources (MIRHR) degree from the University of Toronto, or its equivalent. Other students who meet the admission requirements may be required to enroll in a preparatory year consisting of courses from the MIRHR program. Students with a bachelor’s degree in industrial relations and human resources, or in a related field of study, may be considered
for admission to the PhD (direct entry) if they have exceptional academic standing and have demonstrated quantitative skills and research ability.

- At least a B+ standing, or equivalent, is required in the previous master’s program. Academic performance in courses relevant to the applicant’s area of interest, as well as performance in statistics and research methods courses are taken into consideration by the admissions committee.

- Applicants are required to submit a copy of their results from the Graduate Record Examination (GRE). The Graduate Management Admission Test (GMAT) will be accepted as a substitute. Although there is no minimum score requirement, performance on either the GRE or GMAT will be taken into consideration by the admissions committee. Test results more than five years old are normally not considered.

- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must write the Test of English as a Foreign Language (TOEFL). The following minimum scores are acceptable:
  - Paper-based TOEFL exam: 600 and 5 on the TWE
  - Internet-based TOEFL exam: 100/120 and 22/30 on both the writing and speaking sections

- Applicants may be required to appear for a personal interview and/or submit copies of recent academic work.

**Program Requirements**

- Requirements that are normally met in the first two years consist of a core course in Industrial Relations and Human Resources, elective courses, and courses in research methods and statistics.

- Students must take the equivalent of 4.5 full-course equivalents (FCEs) as follows:
  - The core requirement in Industrial Relations and Human Resources is met by completing:
    - IRE 3004H Special Topics in Employment and Industrial Relations
  - The research and statistics requirements are met by completing:
    - IRE 3002Y Research Seminar I
    - IRE 3003H Research Seminar II (PR)
    - MGT 3062H Methods and Research in Organizational Behaviour and Industrial Relations
    - 1.0 FCE in statistics, chosen, with the approval of the PhD Coordinator, from selected offerings in other departments and faculties.

- In cases where a student’s prior academic background may have covered any of the courses listed above, substitutions may be permitted with the approval of the PhD Coordinator.

- 1.0 FCE is chosen from the elective courses set out below or from selected offerings in other departments and faculties.

- A comprehensive examination is normally written by January 31 of the student’s second year in the program.

- Intensive work on the dissertation will also begin in the second year of the PhD program. The thesis topic and name of supervisor must be submitted no later than March 31 of the second year.

- Students who are in their third and fourth years of study must enrol in the following courses:
  - IRE 3005H Workshop in Industrial Relations I (Credit/No Credit)
  - IRE 3006H Workshop in Industrial Relations II (Credit/No Credit)

- Students will have achieved candidacy upon successful completion of the program requirements above at the end of the third year of study (or fourth year for direct-entry PhD students).

- Proficiency in French and/or other languages will be required when the student’s supervisor deems it necessary for dissertation research or when the centre deems it necessary for the student’s field.

- The program is available only on a full-time basis and normally has a two-year residency requirement during which time the student is required to participate fully in the department’s activities associated with the program.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

**Course List**

Not all courses are offered every year. Please consult the Centre for Industrial Relations and Human Resources timetable which lists available courses in each session.

The notation (PR) following a course indicates the course has a prerequisite.

**Elective Courses**

The centre offers key required and elective courses in Industrial Relations and Human Resources. Students take the balance of their courses from those available in other departments and faculties. This range of options enables students to examine industrial relations and human resources from the perspective of a variety of disciplines.

MIRHR students are not permitted to take more than a total of 1.5 FCEs of electives in any one unit outside the Centre for Industrial Relations and Human Resources without the permission of the Graduate Coordinator. Since outside units normally give preference to their own students, MIRHR students
can enrol in these elective courses only when space is available.

Students must meet the standards and requirements of the other departments and faculties in those courses taken outside the centre. Since these courses are changed from time to time, students must consult the centre for current information.

Some courses are offered only in alternate years, and the availability of elective courses may be subject to change due to such factors as faculty research leaves and departmental resources. Some courses may be available only in the day or in the evening.

Courses marked (PR) require prerequisites; additional information may be obtained from the centre.

Further details concerning specific courses and brief course descriptions are available on the centre’s website.

Industrial Relations and Human Resources

IRE 1002H Applied Statistics in Industrial Relations
IRE 1260H Seminar on Labour Arbitration (PR)
IRE 1270H Law of Labour Relations
IRE 1338H Law in the Workplace
IRE 1615H Labour and Globalization (PR)
IRE 1620H Labour Relations Problems in Historical Perspective
IRE 1625H Contemporary Issues in Public Sector Labour-Management Relations (PR)
IRE 1630H Negotiation Skills, Theory and Practice (PR)
IRE 1635H Advanced Negotiations: Theory and Process (PR)
IRE 1640H Contemporary Trade Unionism: Issues, Challenges, Strategy (PR)
IRE 1645H Alternative Dispute Resolution in the Workplace: Theory and Practice (PR)
IRE 1650H Designing Systems for Managing Workplace Conflict (PR)
IRE 1715H Special Topics in Industrial Relations and Human Resources
IRE 1720H Managing Organizational Change (PR)
IRE 1725H Cross Cultural Differences in Organizational Contexts (PR)
IRE 2021H Financial Information for IR/HR
IRE 2715H Special Topics in Industrial Relations and Human Resources
IRE 3615H Creating High Performance Reward Systems (PR)
IRE 3620H Topics in Compensation (PR)
IRE 3630H Diversity and Inclusiveness in the Workplace (PR)
IRE 3635H Compensation (PR)
IRE 3640H Recruitment and Selection (PR)
IRE 3645H Training and Development (PR)
IRE 3650H Human Resource Planning and Strategy (PR)

Adult Education and Counselling Psychology

AEC 1101H Program Planning in Adult Education
AEC 1148H An Introduction to Workplace and Organizational Democracy
AEC 1268H Career Counselling and Development: Transition in Adulthood

Economics

ECO 2800H Labour Economics I
ECO 2801H Labour Economics II (PR)
ECO 2807H Economics and Demographics (PR)

Management

RSM 2027H Not-for-Profit Consulting
RSM 2129H Forecasting Models and Econometric Methods (PR)
RSM 2605H International Organizational Behaviour (PR)
RSM 2612H Managing Talent for Global Operations
RSM 2615H Special Topics in Organizational Behaviour

Political Science

JPJ 2042H Labour Policy
POL 2307H The Political Economy of Technology: from the Auto-Industrial to the Information Age

Public Health Sciences

CHL 5904H Perspectives in Occupational Health and Safety—Legal and Social Context

Social Work

SWK 4403H Women and Social Policy in Canada

Sociology

SOC 6003H Immigration II
SOC 6012H Sociology of Work I
SOC 6112H Sociology of Work II

Other Elective Courses

With the approval of the Graduate Coordinator, students may register in the following credit/no-credit course:
IRE 4000H Work Term in IR/HRM (Credit/No Credit)

Reading Courses

In certain circumstances, and with the approval of the Graduate Coordinator, students may be allowed to take a reading or research course:
IRE 1090H A reading course or individual research in an approved field
IRE 2090H A reading course or individual research in an approved field
Degree and Diploma Programs by Graduate Unit

Graduate Faculty

Full Members
Amernic, Joel - BSc, MBA, Chartered Accountant
Campolieti, Michele - BSc, MA, PhD
Gunderson, Morley - BA, MA, PhD
Holness, D Linn - MHSc, MD
Hyatt, Douglas - BA, MA, PhD
Krashinsky, Harry - MA, PhD
Krashinsky, Michael - SB, MPH, AM, PhD
Langille, Brian A - LLB, BCL, BA
Latham, Gary - BA, MS, PhD
MacDowell, Laurel - BA, MSc, PhD
Macklem, Patrick - BA, LLB, LLM
Quarter, Jack - PhD
Reid, Frank - BA, MSc, PhD
Reitz, Jeffrey - PhD
Rotundo, Maria - BA, MA, DBA
Saks, Alan - BA, MSc, PhD
Verma, Anil - BTech, MBA, DPhil (Director)
Welsh, Sandy - BA, MA, PhD
Whyte, Glen - LLB, MA, MPH, MBA, PhD
Xie, Jia Lin - PhD

Associate Members
Heathcote, Joanna - BA, MA, PhD
Levy, Alan - BA, MA
Radhakrishnan, Phanikiran - DPhil
Rittich, Kerry - BMus, LLB, SJD
Riznek, Lori - BA, MA, DA
Sawchuk, Peter - BSc, BEd, PhD
Overview

The Faculty of Information combines strengths in the stewardship and curation of cultural heritage (libraries, archives, and museums) with leadership in the future of information practice as society is transformed by the rise of digital technologies.

The Master of Information program allows students to explore the breadth of information and to focus on one or more areas of study.

The Combined Juris Doctor/Master of Information program is offered jointly by the Faculty of Law and the Faculty of Information. Students receive two degrees, information and law.

The Doctor of Philosophy program in information studies provides opportunities for advanced scholarly inquiry into theoretical aspects of information and in the empirical investigations of information in various contexts.

The Master of Museum Studies program prepares students for future involvement in museums and related cultural agencies. The program examines the theoretical body of knowledge of museology as a necessary context for professional practice. The Faculty of Information also provides a Concurrent Registration Option whereby students may register concurrently in the Master of Information (MI) and Master of Museum Studies (MMSt) programs.

A post-master’s Graduate Diploma of Advanced Study in Information Studies is also offered.

Contact and Address

Web: www.ischool.utoronto.ca
Email: inquire@ischool.utoronto.ca
Telephone: (416) 978-3234
Fax: (416) 978-5762

Faculty of Information
University of Toronto
140 St. George Street
Toronto, Ontario M5S 3G6
Canada

Degree Programs

Information

Master of Information

Minimum Admission Requirements

- SGS General Regulations. Application deadlines are available on the Faculty of Information website.
- An appropriate bachelor’s degree with at least a B average (3.0 GPA) from a university recognized by the University of Toronto. Generally, successful
Degree and Diploma Programs by Graduate Unit

Applicants hold an academic level of B+ (3.3 GPA) or higher in the final year.

- The bachelor’s degree must normally contain at least 75% academic credits, that is, courses that are not professional, practical, technical, or vocational. Courses such as studio art, drama or music performance, theology, education, or undergraduate courses in library science are not normally considered to be sufficiently academic in content for admission purposes.

- Applicants who meet current admission requirements and who hold a BLS degree from the University of Toronto, or its equivalent from an approved university, may be admitted to the MI program with advanced standing. Such students may be required to take additional courses if certain requisite instruction is lacking.

- Applicants wishing to focus on information systems must also have completed the equivalent of 2.0 approved full-course equivalents (FCEs) in computer science and 1.0 approved FCE in mathematics. (Removal of the foregoing requirement is pending governance approval.)

- Applicants who have satisfactory standing in an undergraduate program and who have successfully completed information studies graduate courses in programs equivalent to the University of Toronto MI program may also apply for admission with advanced standing. Each application will be evaluated individually. At least 4.0 FCEs towards the MI degree must be taken at the University of Toronto.

- All incoming graduate students must have a good command of English. All applicants educated outside Canada whose primary language is not English must demonstrate facility in the English language. This requirement is a condition of admission and must be met before an offer of admission is made. The English language requirement may be satisfied using one of the following tests:
  1. Test of English as a Foreign Language (TOEFL) with the following minimum scores:
     - Paper-based TOEFL exam: 600 with 5.5 on the Test of Written English (TWE)
     - Internet-based TOEFL exam: 100/120 with 24/30 on the speaking section and 27/30 on the writing section.
  2. Michigan English Language Assessment Battery (MELAB) with a minimum required score of 95.
  3. International English Language Testing System (IELTS) with a minimum required score of 8.0.
  4. English Language Diagnosis and Assessment (ELDA)/Certificate of Proficiency in English (COPE) with a minimum required score of 6 and at least 3 in the writing portion.

- Concurrent Registration Option (CRO)

- Master of Information/Master of Museum Studies degree programs. Applicants interested in completing the Master of Information and the Master of Museum Studies degree programs concurrently must apply to and be accepted into each program separately and receive approval from the Graduate Coordinator in each program. Applicants should indicate interest in the concurrent registration option at the time of application to the second of the two programs.

Program Requirements

- The Faculty expects students to be competent in their use of information and communication technologies as appropriate to their programs of study.

- 8.0 FCEs as follows:
  - Course option: All students must complete four core courses (2.0 FCEs) plus 6.0 FCEs in electives and have their program of study approved by the Program Director. A number of examples of pre-established programs of study is available to students.
  - Thesis option: The thesis option allows students to gain experience in developing and executing a research project from beginning to end. Students gain familiarity with the research process and hone their research skills. Students must complete 16 half courses (8.0 FCEs) as follows: 4 core courses (2.0 FCEs), a research methods course (0.5 FCE) appropriate to their program of study with a final grade of at least A-, 5 additional courses (2.5 FCEs), and a thesis (3.0 FCEs). The 5 additional courses may include up to 4 graduate courses (2.0 FCEs) taken outside the MI program. Faculty approval is required to enter the thesis option. The thesis option is designed for students who have a clearly defined topic, can find a supervisor, and can meet tight deadlines in order to graduate within the usual time frame envisioned for the degree.

- Total time from original registration, including lapsed time, is counted as the time allowed to complete the degree requirements.

- Non-degree Programs (Special Student Status): Special Student status is normally intended for fully qualified graduates who wish to update their knowledge. Programs for Special Students are administered under the General Regulations. Details are available on the Faculty of Information Studies website. Courses in the PhD program are not open to Special Students.

- Diploma Program: The Graduate Diploma of Advanced Study in Information Studies is a post-master’s diploma. Applicants must have a University of Toronto MI, MLS, MIS or MISt degree or equivalent. The Graduate Diploma requires 24 credit hours (i.e., 4.0 FCEs). The graduate Diploma
program, which may be taken on a full-time or part-time basis, will be tailored to the individual's needs and interests with courses selected in consultation with their advisor. Complete details are available on the Information website at www.ischool.utoronto.ca.

**Concurrent Registration Option (CRO)**

- Students who have been accepted into both participating programs, with the permission of each Graduate Coordinator, may register concurrently in the Master of Information (MI) and Master of Museum Studies (MMSt) programs. The minimum period of registration required to complete both degrees in the concurrent registration option is three years.

- Students in the CRO must complete a total of 13.0 FCEs (26 half courses) as follows:
  - 2.0 FCEs in core courses (4 half courses) in the MI program, counted toward the MI degree.
  - 2.0 FCEs in required courses (4 half courses) in the MMSt program, counted toward the MMSt degree.
  - At least 3.0 FCEs in elective courses in the MI program, to be counted toward the MI degree.
  - At least 3.0 FCEs in elective courses in the MMSt program, to be counted toward the MMSt degree.
  - An additional 3.0 FCEs in elective courses chosen from the MI program, the MMSt program, or elsewhere (maximum 2.0 FCEs) to be counted toward both the MI and the MMSt degree.
  - Registration in a CRO may affect eligibility for external and internal graduate awards and bursaries.

**Normal Program Length:** 4 sessions (2 years) full-time; 8 sessions part-time

**Time Limit:** 3 years full-time; 6 years part-time

**Combined Juris Doctor/ Master of Information**

**Minimum Admission Requirements**

- Applicants must be admitted to both the Faculty of Law and the Faculty of Information; therefore, applicants must satisfy the admission requirements of both faculties independently, and all applicants must complete the Law School Admission Test (LSAT) and all admission requirements of the Faculty of Information. A separate application to each Faculty must also be submitted. Please obtain application information from each Faculty.

- Students who have completed the first year of either the Juris Doctor or the Master of Information program may apply for admission to the combined JD/MI program by meeting the normal application and admission requirements of the other Faculty and notifying their Faculty Registrar.

**Program Requirements**

- Students complete the program requirements of the JD and the MI.

- At the completion of the four-year integrated program, the successful student is awarded both the Juris Doctor and the Master of Information degrees, which, if taken separately, would require a minimum of five years of study.

**Time Limit:** 4 years full-time

**Course List**

Not all courses are offered every year. Consult the Faculty of Information website for the annual course offerings; course descriptions; details of prerequisites, co-requisites, and permissions. Inquiries concerning the selection of courses to be offered in any given session should be directed to the Faculty of Information.

- INF 1001H Knowledge and Information in Society
- INF 1002H Representation, Organization, Classification, and Meaning-Making
- INF 1003H Information Systems, Services, and Design
- INF 1005H Information Workshop I
- INF 1006H Information Workshop II
- INF 1230H Management of Information Organizations
- INF 1240H Research Methods
- INF 1300H Foundations in Library and Information Science
- INF 1310H Introduction to Reference
- INF 1320H Introduction to Bibliographic Control
- INF 1325H Online Information Retrieval
- INF 1330H Archives Concepts and Issues
- INF 1331H Archival Arrangement and Description
- INF 1332H Archives Programs and Services
- INF 1341H Systems Analysis and Process Innovation
- INF 1342H System Requirements and Architectural Design
- INF 1343H Data Modeling and Database Design
- INF 2010H Reading Course
- INF 2011H Reading Course
- INF 2020H Ethnographic Field Methods for Exploratory Research
- INF 2040H Project Management
- INF 2103H Advanced Records Management: Understanding Forms and Functions of Records in Contemporary Organizations
- INF 2110H Design and Evaluation of Information Literacy Programs
- INF 2115H Data Librarianship
- INF 2120H Conservation and Preservation of Recorded Information
- INF 2121H Specialized Archives
- INF 2124H Surveillance and Identity
INF 2125H Information and Culture in a Global Context
INF 2126H Public Library Services to Culturally Diverse Communities
INF 2127H Collection Development, Evaluation, and Management
INF 2128H Serials Management
INF 2130H History of Libraries and Librarianship
INF 2131H The Literature of the Humanities and Social Sciences
INF 2133H Legal Literature and Librarianship
INF 2134H Business Information Resources
INF 2135H Health Sciences Information Resources
INF 2136H Government Information and Publications
INF 2137H International Organizations: Their Documents and Publications
INF 2142H Theories of Classification and Knowledge Organization
INF 2145H Creation and Organization of Bibliographic Records
INF 2149H Administrative Decision Making in Information Organizations
INF 2150H Legal Issues in Archives
INF 2152H Advocacy and Library Issues
INF 2153H Technical Services: Organization and Administration
INF 2155H The Public Library in the Community: Developing a Critical Practice
INF 2157H Theory and Practice of Intellectual Freedom in Libraries
INF 2158H Management of Corporate and Other Special Information Centres
INF 2159H Analytical and Historical Bibliography I
INF 2161H History of Books and Printing
INF 2162H Rare Books and Manuscripts
INF 2164H Authority and Credibility in Online Communities
INF 2165H Social Issues in Information and Communication Technologies
INF 2167H Community Informatics
INF 2169H User-Centred Information Systems Development
INF 2171H Major Subject Heading and Classification Systems
INF 2172H Readers' Advisory: Reference Work and Resources
INF 2173H Information Professional Practicum
INF 2174H History of Records and Records-Keeping
INF 2175H Managing Organizational Records
INF 2176H Information Management in Organizations—Models and Platforms
INF 2177H Information Management and Systems
INF 2180H Archives: Access, Advocacy, and Outreach
INF 2181H Information Policy, Regulation and Law
INF 2183H Knowledge Management and Systems
INF 2184H Appraisal for Records Retention and Archives Acquisition
INF 2186H Metadata Schemas and Applications
INF 2188H Archival Representation
INF 2194Y Information Systems Design Project
INF 2196H Special Topics in Information Studies: New Media and Information Practices of the Young
INF 2197H Special Topics in Information Studies: Standards for Digital Record-Keeping
INF 2198H Special Topics in Information Studies: Critical Histories of Information Technologies
INF 2199H Special Topics in Information Studies: Selected Topics in Health Informatics
INF 2211H Digital Divides and Information Professionals: Developing a Critical Practice
INF 2240H Political Economy and Cultural Studies of Information
INF 2241H Critical Making: Information Studies, Social Values, and Physical Computing
INF 2242H Studying Information and Knowledge Practice
INF 2300H Special Topics in Information Studies: Graphic Novels and Comic Books in the Library
INF 2303H Special Topics in Information Studies: Issues in Children’s and Young Adults’ Services
INF 2304H Special Topics in Information Studies: Children’s Cultural Texts and Artifacts
INF 2306H Special Topics in Information Studies: An Introduction to Services Science
INF 2307H Special Topics in Information Studies: Information Ethics
INF 2309H Special Topics in Information Studies: Reading: Theories, Practices, and International Perspectives
INF 2311H Managing Audiovisual Materials
INF 2312H Art Librarianship: Theory Informs Practice
INF 2330H The Information Experience in Context
INF 2331H The Future of the Book

Information Studies

Doctor of Philosophy

Minimum Admission Requirements

- Average of at least A- in an appropriate master’s degree program, or equivalent. Equivalency is normally determined by the number of courses and/or credits taken. Applicants holding an MLS or other master’s degree earned in two or three sessions, or by completing 5.0 to 7.5 full-course equivalents (FCEs), will normally be required to take additional courses in the MI program.
- Admission is limited to graduates of high intellectual ability who have an interest in research. Evaluation of applicants is based on academic records, a statement of research interest, and three academic letters of reference. A personal interview may be requested.
Degree and Diploma Programs by Graduate Unit

Applicants whose first language is not English should consult the English Language Facility section of the Faculty’s calendar.

Admission procedures are described in the General Regulations section of this calendar.

Doctoral students are admitted in September. Meeting the minimum requirements of the Faculty of Information and of SGS does not guarantee admission.

Program Requirements

PhD students come to advanced research in information from different backgrounds and with different areas of interest. Therefore, the curriculum both fosters a common conversation about the field of Information and supports the development of individual (even idiosyncratic) research projects. The focus of the program is to enable the student to achieve competence in order to carry out the research and writing of an original thesis in information.

To achieve candidacy students must:
- complete the following 6.0 FCEs:
  - INF 3001H Research in Information: Foundations
  - INF 3002H Research in Information: Contemporary Issues
  - INF 3003H Research in Information: Frameworks and Methods
  - INF 3006Y Thesis Proposal Preparation
  - INF 3007Y Colloquium I
  - INF 3008Y Colloquium II
- complete 1.5 FCEs in elective courses
- pass a qualifying exam
- present and defend a thesis research proposal
- complete a thesis and pass a doctoral final oral examination

Other courses appropriate for the student’s research may also be required.

Full-Time PhD Program

All requirements must be completed within six years from first enrolment. PhD students must be regularly registered in SGS during each year of the program.

Flexible-Time PhD Program

The flexible-time PhD program is intended for practising professionals whose employment is related to their intended field of research interest. The flexible-time PhD differs from the full-time PhD only in design and delivery, not in requirements. Students must ensure that they have adequate time on campus to attend classes and to fulfill the academic requirements for an advanced research degree. Students must spend at least two full-time sessions on campus. All degree requirements must be completed within eight years of first enrolment in the program.

Normal Program Length: 4 years full-time; 6 years flexible-time
Time Limit: 6 years full-time; 8 years flexible-time

Course List

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<th>Course Code</th>
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<td>INF 3007Y</td>
<td>Colloquium I</td>
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<tr>
<td>INF 3008Y</td>
<td>Colloquium II</td>
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Museum Studies

Master of Museum Studies

Minimum Admission Requirements

- SGS General Regulations. Application deadlines are available on the Faculty of Information website www.ischool.utoronto.ca.
- An appropriate bachelor’s degree with an overall average grade of at least B+ from a recognized university.
- Applicants must satisfy the Museum Studies Program that they are capable of independent research in museum studies at an advanced level. Demonstrated previous experience in museums or related cultural organizations will also be considered. Admission to this program is competitive.
- Applicants are admitted as students for the Master of Museum Studies (MMSt) under the General Regulations of the School of Graduate Studies.

Concurrent Registration Option (CRO)

- Master of Information (MI)/Master of Museum Studies degree programs. Applicants interested in completing the Master of Information and the Master of Museum Studies degree programs concurrently must apply to and be accepted into each program separately and receive approval of the Graduate Coordinator in each program. Applicants should indicate interest in the concurrent registration option at the time of application to the second of the two programs.

Program Requirements

- Minimum requirement is 7.0 full-course equivalents (FCEs) including 4 required half courses (2.0 FCEs) and 10 additional courses (5.0 FCEs), of which 3.0 FCEs must be internal (Museum Studies) elective courses.
- Thesis option: The thesis option allows students to gain experience in developing and executing a
research project from beginning to end. Students gain familiarity with the research process and hone their research skills. Students must complete 4 required half courses (2.0 FCEs) and a research methods course (0.5 FCE) appropriate to their program of study with a final grade of at least A-. When the thesis option is selected, the requirement of 14 half-courses (7.0 FCEs) for the MMSt program is to be met as follows: 4 required half courses (2.0 FCEs), a research methods course (0.5 FCE), 6 additional half courses (3.0 FCEs), and a thesis (1.5 FCEs). The 6 additional half courses may include up to 4 graduate half courses (2.0 FCEs) taken outside the MMSt program. Faculty approval is required to enter the thesis option. The thesis option is designed for students who have a clearly defined topic, can find a supervisor, and can meet tight deadlines in order to graduate within the usual time frame envisioned for the degree.

Before the end of their program, students whose primary language is English will be required to demonstrate a reading knowledge of a second language (preferably French) by means of a written exam and achieve a minimum grade of 70%.

Concurrent Registration Option (CRO)

- Students who have been accepted into both participating programs, with the permission of each Graduate Coordinator, may register concurrently in the MI and MMSt programs. The minimum period of registration required to complete both degrees in the concurrent registration option is three years.
- Students in the CRO must complete a total of 13.0 FCEs (26 half courses) as follows:
  - 2.0 FCEs core courses (4 half courses) in the MI program, counted toward the MI degree
  - 2.0 FCEs required courses (4 half courses) in the MMSt program, counted toward the MMSt degree
  - At least 3.0 FCEs elective courses in the MI program, counted toward the MI degree
  - At least 3.0 FCEs elective courses in the MMSt program, counted toward the MMSt degree
  - An additional 3.0 FCEs elective courses chosen from the MI program, the MMSt program, or elsewhere (maximum 2.0 FCEs) counted toward both the MI and the MMSt degree
  - Registration in a CRO may affect eligibility for external and internal graduate awards and bursaries.

**Normal Program Length:** 5 sessions full-time

**Time Limit:** 3 years full-time

The McLuhan Program in Culture and Technology

The McLuhan Program in Culture and Technology does not offer a degree program. Students registered in a graduate program may take McLuhan program courses for credit with the permission of their home department.

- C&T 1003H Comparative Orality and Literacy
- C&T 1006H Media, Mind, and Society I
- C&T 1008H Media, Mind, and Society II
Degree and Diploma Programs by Graduate Unit

C&T 1009H New Media and Policy
C&T 1100H Special Topics in Communication and Culture

Students interested in pursuing studies in the impact of communication media on humans and their environment should consult the Director of the program for a list of courses available in cognate departments.

Graduate Faculty

Full Members
Caidi, Nadia - PhD
Cherry, Joan - BSc, MLS, PhD
Choo, Chun Wei - BA, MSc, PhD
Clement, Andrew - BSc, MSc, PhD
De Kerckhove, Derrick - BA, MA, PhD
Dilevko, Juris - MLIS, MA, PhD, PhD
Duff, Wendy - BA, BA, MLS, PhD
Howarth, Lynne - BA, MLS, PhD
MacNeil, Heather - PhD
Mai, Jens-Erik - PhD (Director of Graduate Studies)
Phillips, David - PhD
Ross, Seamus - MA, PhD (Dean)
Smith, Brian Cantwell - BS, MS, PhD
Teather, Lynne - BA, MA, PhD
Yu, Eric - BSc, MMath, PhD

Members Emeriti
Craig, Barbara - AM, PhD
Fleming, E Patricia - BA, BLS, MLS
Williamson, Nancy - BA, BLS, MLS

Associate Members
Atkinson, Leslie - PhD
Cox, Joseph - BA, MLS
Ferenbok, Joseph - PhD
Grimes, Sara - PhD
Krmpotich, Cara - PhD
Lyons, Kelly - BSc, MSc, PhD
McEwen, Rhonda - PhD
Takhteyev, Yuri - PhD
Italian Studies

Faculty Affiliation
Arts and Science

Degree Programs Offered
Italian Studies – MA, PhD
Field (MA only): Italian Literature
Fields (PhD only): Middle Ages and Renaissance Seventeenth and Eighteenth Centuries Nineteenth and Twentieth Centuries

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Book History and Print Culture
   • Italian Studies, MA, PhD
2. Editing Medieval Texts
   • Italian Studies, PhD
3. Sexual Diversity Studies
   • Italian Studies, MA, PhD

Overview
The Master of Arts program offers advanced education in Italian literature and provides training in research techniques. The Doctor of Philosophy program prepares students for a career in teaching and scholarship. Graduates are expected to have acquired autonomy in conducting research and preparing scholarly publications. They are poised to teach undergraduate courses in all areas of Italian studies and to design and teach graduate courses in their fields of specialization. The program is designed to provide a broad knowledge of the discipline, specialized knowledge of a single field, and training in all aspects of scholarly research in the discipline.

Contact and Address
Web: www.utoronto.ca/italian
Email: italian.studies@utoronto.ca
Telephone: (416) 926-2345
Fax: (416) 926-7107
Department of Italian Studies
University of Toronto
Carr Hall
2nd Floor, 100 St. Joseph Street
Toronto, Ontario M5S 1J4
Canada

Degree Programs

Italian Studies

Master of Arts

Minimum Admission Requirements
- Applicants are accepted under the General Regulations provided that they also satisfy the department's requirements stated below.
- Successful completion of 7.0 undergraduate full-course equivalents (FCEs) in Italian, including the following: 3.0 FCEs in Italian literature (students must have at least 0.5 FCE in each of three out of four different periods: medieval, Renaissance, seventeenth–eighteenth centuries, nineteenth–twentieth centuries) and an appropriate upper-year 1.0 FCE in language.
- Minimum B+ standing in their University of Toronto 300- and 400-series courses (or in equivalent courses).
- Two letters of recommendation.
- A personal statement of intent.
- The department will determine whether applicants need to complete prerequisite work in order to qualify for admission. Applicants will be advised accordingly.

Program Requirements
- Successful completion of ITA 1000H Methodologies for the Teaching and Study of Italian and 4.0 additional graduate FCEs.
- A student's program of study must be approved by the department.

Normal Program Length: 3 sessions full-time; 15 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements
- Applicants are admitted via one of two routes:
  ○ Successful completion of the University of Toronto MA or its equivalent with an overall average of at least A- in courses.
  ○ Exceptional students may be admitted directly to the PhD program from the BA with a minimum A- average. Such applicants will apply to the MA program, but indicate in a separate letter to the Graduate Coordinator that they wish to be considered for direct admission to the PhD program.
- Two letters of recommendation.
A personal statement of intent.

Note: Applicants with a degree equivalent to a PhD in Italian Studies (e.g., an Italian *dottorato di ricerca*) cannot be accepted into the PhD program.

**Program Requirements**

- Students entering with a MA degree will normally complete 4.0 graduate full-course equivalents (FCEs) for a total of 8.0 FCEs, including those taken in the MA program. With the department's approval, students may choose one graduate course outside the department in an area cognate with the student's area of specialization. Students must also complete the 0.5-FCE ITA 1000H Methodologies for the Teaching and Study of Italian; must show evidence of written and oral command of Italian; and, not later than the beginning of Year 3 of PhD registration, must have demonstrated a reading knowledge of Latin and of one other language approved by the department.

- Students entering with a BA degree will normally complete 4.0 FCEs in addition to the PhD requirements for a total of 8.0 FCEs plus the required 0.5-FCE ITA 1000H.

- All students must maintain a minimum A- average in order to remain in the program.

- Upon completion of all course requirements, and not later than Year 2 of the PhD program, students will complete the series of written and oral qualifying examinations.

- Thesis and a doctoral final oral examination on the thesis.

- Permission to write the thesis in Italian (subject to final approval by the School of Graduate Studies) may be granted to students who first pass a supervised essay-type English examination to demonstrate proficiency in writing correct and idiomatic English prose.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

**Course List**

Not all courses are offered every year. Please consult the department regarding course availability.

- **ITA 1000H** Methodologies for the Teaching and Study of Italian (Credit/No Credit)
- **ITA 1001Y** Colloquium and Professional Development (Credit/No Credit)
- **ITA 1025H** Old Italian
- **ITA 1026H** Italian Dialectology
- **ITA 1029H** History of Italian Religious Language
- **ITA 1165H** Introduction to Italian Philology
- **ITA 1170H** Textual Criticism and the Editing of Early Italian Texts
- **ITA 1177H** The Italian Questione della Lingua
- **ITA 1200H** Dante
- **ITA 1203H** Boccaccio
- **ITA 1330H** Petrarch and Petrarchism
- **ITA 1520H** Renaissance Humanism
- **ITA 1525H** Renaissance Dialogue
- **ITA 1530H** Machiavelli
- **ITA 1535H** Topics in Italian Literature
- **ITA 1540H** Renaissance Italian Theatre
- **ITA 1545H** The Sacra Rappresentazione
- **ITA 1550H** Sixteenth-Century Florence
- **ITA 1565H** Tasso
- **ITA 1591H** Baroque Poetics and Poetry
- **ITA 1592H** Baroque Poetry and Neobaroque Poetics
- **ITA 1597H** The Commedia dell’Arte
- **ITA 1601H** Vico
- **ITA 1605H** Theories of the Stage and Dramatic Criticism
- **ITA 1610H** Seventeenth- and Eighteenth-Century Theatre
- **ITA 1645Y** Post-Tridentine Religious Drama
- **ITA 1650H** Neoclassical and Pre-Romantic Literary Culture
- **ITA 1661H** Topics in Nineteenth-Century Italian Literature
- **ITA 1705H** Pirandello
- **ITA 1710H** Aspects of Modern Italian Poetry
- **ITA 1723H** Trends in the Italian Novel 1900–1960
- **ITA 1728H** New Trends in the Italian Novel From 1957 to the Present
- **ITA 1729H** Contemporary Literary Criticism in Italy
- **ITA 1730Y** Aspects of Semiotic Theory and Practice in Italy
- **ITA 1735H** Topics in Italian Studies I
- **ITA 1736H** Topics in Italian Studies II
- **ITA 1755H** Italian Modernism
- **ITA 1760H** From Futurism to Novecentismo: The Rise and Fall of the Italian Avant-Garde
- **ITA 1810H** Studies in Italian Literature and Film
- **ITA 1815H** Issues in Italian Film Historiography
- **ITA 2011H** Directed Research in Italian Linguistics
- **ITA 2041H** Directed Research Topics 1
- **ITA 2042H** Directed Research Topics 2
- **ITA 2043H** Directed Research Topics 3
- **ITA 2044H** Directed Research Topics 4
- **ITA 2051H** Lecture Series Research 1
- **ITA 2052H** Lecture Series Research 2
- **ITA 2053H** Lecture Series Research 3
- **ITA 2054H** Lecture Series Research 4
- **ITA 3000H** Italian Canadian Culture
- **JIC 5000H** Narrativity and Intertextuality in Italian Fiction
- **JIF 1000H** Romance Philology I
- **JIF 1001H** Romance Philology II
- **JMI 1951H** Italian Musical Theatre of the Baroque and Classic Periods
- **JRL 1100Y** Introduction to Romance Philology
- **MST 3162H** Boccaccio and Chaucer
Degree and Diploma Programs by Graduate Unit

Graduate Faculty

Full Members
Bancheri, Salvatore - BA, MA, PhD (Chair and Graduate Chair)
Capozzi, Rocco - BA, MA, PhD
Eisenbichler, Konrad - BA, MA, PhD
Guardiani, Francesco - MA, PhD
Lettieri, Michael - BA, MA, PhD
Pietropaolo, Domenico - BSc, MA, PhD
Pugliese, Olga - BA, MA, PhD
Somigli, Luca - PhD

Members Emeriti
Franceschetti, Antonio - LittD, PhD

Associate Members
Lepschy, Anna Laura - MA
Lepschy, Giulio - PhD
Laboratory Medicine and Pathobiology

Faculty Affiliation
Medicine

Degree Programs Offered
Laboratory Medicine and Pathobiology – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Biomedical Engineering
   - Laboratory Medicine and Pathobiology, MSc, PhD
2. Biomedical Toxicology
   - Laboratory Medicine and Pathobiology, MSc, PhD
3. Cardiovascular Sciences
   - Laboratory Medicine and Pathobiology, MSc, PhD
4. Developmental Biology
   - Laboratory Medicine and Pathobiology, MSc, PhD
5. Genome Biology and Bioinformatics
   - Laboratory Medicine and Pathobiology, PhD
6. Neuroscience
   - Laboratory Medicine and Pathobiology, MSc, PhD
7. Resuscitation Sciences
   - Laboratory Medicine and Pathobiology, MSc, PhD

Overview
The graduate program in Laboratory Medicine and Pathobiology provides a curriculum of courses and a broad-based multidisciplinary approach to research in mechanisms of human disease leading to Master of Science and Doctor of Philosophy degrees. The program emphasizes:
1. Bone and Matrix Pathobiology
2. Cancer
3. Vascular and Cardiovascular Pathobiology
4. Immunopathology, Lymphatics and Transplantation
5. Neuropathobiology and Endocrine Disorders
6. Microbiology and Infectious Disease

Research Foci
Antimicrobial Resistance: Surveillance and Mechanisms
Bone and Connective Tissue Diseases including Disorders of Mineral Metabolism
Cancer Pathogenesis and Prevention
Cardiovascular Disease
Cell-Matrix Interactions
Development: Cell Cycle, Differentiation, Signalling
Diabetes
Endocrine and Neuroendocrine Disorders
Hematopathology and Transfusion Medicine
Immunopathology and Transplantation
Inflammatory Disorders
Lipid Disorders
Lymphatic Pathobiology
Microbial Pathogenesis
Molecular Biomarkers
Neurodegenerative Disorders
Proteomics and Bioinformatics
Protein Structure and Function
Toxicology
Translational Research
Vascular Cell Biology
Viral Diseases

For details consult the departmental website www.lmp.facmed.utoronto.ca.

Contact and Address
Admission
Web: www.lmp.facmed.utoronto.ca
Email: r.ponda@utoronto.ca
Telephone: (416) 978-2550
Fax: (416) 978-7361

Program
Web: www.lmp.facmed.utoronto.ca
Email: f.dharas@utoronto.ca
Telephone: (416) 978-2663
Fax: (416) 978-7361

Department of Laboratory Medicine and Pathobiology
University of Toronto
Medical Sciences Building
Room 6243, 1 King’s College Circle
Toronto, Ontario M5S 1A8
Canada

Degree Programs
Laboratory Medicine and Pathobiology

Master of Science

Minimum Admission Requirements
- Applicants must have completed, or be about to complete, one of the following:
  - Pathobiology Specialist Program
An appropriate bachelor’s degree in life sciences from a recognized university
Professional degree (e.g., MD, DDS, DVM, or equivalent)
A minimum A- average over the final two years of undergraduate study.
Two strong letters of recommendation from faculty members familiar with the applicant’s academic work. Departmental appraisal forms must be used.
Detailed curriculum vitae.
Statement of intent (approximately 250 words).
Research experience evidenced by publications, abstracts, or presentations is an asset.
Successful applicants are selected by the Departmental Admissions Committee on the basis of academic excellence and an interview with a member of the departmental graduate faculty.
Admission is finalized when a graduate faculty member agrees to supervise the student’s research and guarantees a full stipend for the student.

Program Requirements
Students must be on campus and participating for the duration of their registration in the program.
Students who have not previously completed LMP 1404H Molecular and Cellular Mechanisms of Disease, or an approved equivalent, will be required to take this course in the first year of their program. Students exempted from LMP 1404H will take a departmental half course as a substitute. The student’s advisory committee may recommend additional courses.
Students must enrol and participate in a credit/no-credit course, LMP 1001Y Graduate Seminars in Laboratory Medicine and Pathobiology, which must be taken throughout the program.
Students are required to attend the departmental guest lecture series, Seminars in Molecular Pathobiology, that immediately follows the student seminar course LMP 1001Y.
Completion of a thesis under the direction of the student’s supervisor, assisted by the advisory committee.
Within 12 to 18 months of entry, students will be advised by their committee to do one of the following:
• write and orally defend a thesis on research completed,
• transfer to the PhD program, or
• withdraw from the MSc program.
The research content of the MSc thesis is expected to generate the equivalent of one paper published in a peer-reviewed scientific journal.

Normal Program Length: 5 sessions (2 years) full-time
Time Limit: 3 years full-time

Doctor of Philosophy
Minimum Admission Requirements
Two routes of entry are available:
• Track A: Direct entry is available for highly qualified BSc graduates having completed the Pathobiology Specialist Program or an appropriate undergraduate program in the life sciences from a recognized university with a minimum A average in the final two years and relevant research experience. These students are encouraged to apply directly to the PhD program.
• Track B: MSc graduates and applicants with a MD, DDS, DVM (or equivalent) degree are eligible for the PhD program. An A- average or higher is required in graduate courses or in an appropriate BSc program if there were no course requirements in the MSc program.

Research experience evidenced by peer-reviewed publications, abstracts, or presentations is normally required.
Three strong letters of recommendation from faculty members familiar with the applicant’s academic work. Departmental appraisal forms must be used. Normally, one of the referees should be the applicant’s research supervisor.
A detailed curriculum vitae.
Statement of intent (approximately 250 words).
Applicants are selected by the Departmental Admissions Committee on the basis of academic excellence and successful performance at an interview with a member of the departmental graduate faculty. Admission to the program is finalized when a graduate faculty member agrees to supervise the student’s research, and guarantees a full stipend for the student.

Excellent students with high academic standing (normally minimum A- average on MSc courses) who have clearly demonstrated the ability to do research at the doctoral level may be considered for transfer to the PhD program. Recommendation of the advisory committee is required. Transfer to the PhD program is based on the student’s performance at an assessment examination, which is held 12 to 18 months after the start of the MSc program. The student’s supervisor will schedule the assessment examination. The examining committee consists of at least six members of the graduate faculty:
• the Graduate Coordinator (or a representative from the graduate faculty of the department) who chairs the examining committee,
• the student’s advisory committee, and
• two other graduate faculty members, one of whom is a member from another graduate department.
• A limited number of selected students may enter the MD/PhD program subject to admission into both the departmental PhD program and the MD program.

Program Requirements

• Students must be on campus and participating for the duration of their registration in the program.

• Students must enrol and participate in a credit/no credit course, LMP 1001Y Graduate Seminars in Laboratory Medicine and Pathobiology, which must be taken throughout the program. Students are required to present at least twice in LMP 1001Y prior to defending their thesis. Students are required to attend the LMP Monday Seminar Series, a weekly departmental guest lecture series that immediately follows the student seminar course LMP 1001Y.

• Students who have not previously completed LMP 1404H Molecular and Cellular Mechanisms of Disease or an approved equivalent are required to take this course in the first year of their PhD program. The student's advisory committee may recommend additional courses. Students exempted from LMP 1404H take a departmental half course as a substitute.

• In addition to this, students are required to take three half-course equivalents, of which at least one half course is from Laboratory Medicine and Pathobiology. Exception: students having completed the undergraduate Pathobiology Specialist Program (or equivalent) are required to take only two additional half courses. Coursework should be completed in the first two years of the program, the continuing seminar course excepted. The latter half of the program is focused on research.

• Students who take additional graduate courses during the MSc program and who continue their graduate studies in the PhD program may request a transfer credit up to one full-course toward doctoral course requirements. Credit for courses must be approved by the Graduate Coordinator; certain restrictions may apply.

• Prior to the start of the third year of the PhD program, the advisory committee may recommend that a PhD student transfer to the MSc program. The student may also request the transfer.

• The PhD thesis is completed under the direction of the candidate’s supervisor, assisted by the advisory committee. The candidate normally defends the thesis before a departmental committee, and subsequently before a committee approved by the School of Graduate Studies. Candidates may, with the recommendation of their advisory committee, request a waiver of the Departmental defence, subject to approval by the Graduate Coordinator.

• The PhD thesis must demonstrate a substantial contribution to laboratory medicine and pathobiology, involving a systematic investigation of disease-related hypotheses. The emphasis is on quality of the science and its presentation. The PhD thesis is normally expected to yield the equivalent of three publications in refereed scientific journals.

Normal Program Length: 4 years full-time; 5 years direct-entry

Time Limit: 6 years full-time; 7 years direct-entry

Course List

Not all courses are offered every year. Please check the departmental website, www.lmp.facmed.utoronto.ca, for course availability.

LMP 1001Y Graduate Seminars in Laboratory Medicine and Pathobiology (Credit/No Credit) (Mandatory for all MSc and PhD students in the Department of Laboratory Medicine and Pathobiology)

LMP 1005Y General and Special Pathology (For Oral Pathology Residents only)

LMP 1006H Cellular Imaging in Pathobiology

LMP 1013H Neoplasia

LMP 1015H Vascular Pathobiology

LMP 1016H The Pathology of Connective Tissue

LMP 1018H Molecular Biology and Applications to Human Disease

LMP 1019H Research Techniques in Molecular Biology and Pathobiology

LMP 1020H Inflammation, Immunity, and Immunopathology

LMP 1401Y Clinical Biochemistry (For Residents and Diploma students only)

LMP 1404H Molecular and Cellular Mechanisms of Disease (Mandatory for all MSc and PhD students in the Department of Laboratory Medicine and Pathobiology)

LMP 1407H Introductory Biostatistics and Clinical Investigation

LMP 1503H Signal Transduction Pathways in Normal and Diseased Tissues

LMP 1504H Cell and Molecular Biology of Cardiovascular Diseases

LMP 1505H Analytical Clinical Biochemistry: Basic Principles

LMP 1510H Molecular Biology Techniques

LMP 1515H Cell Death in Development and Disease

LMP 1520H Translational Research in Pathobiology

LMP 2115H Selected Topics in Medical Microbiology

RST 9999Y Research Project

Graduate Faculty

Full Members

Abdelhaleem, Mohamed - MSc, PhD
Adeli, Khosrow - DipChem, MSc, PhD
Alman, Benjamin - BSc, MD
Andrulis, Irene - BA, PhD
Asa, Sylvia - MD
Degree and Diploma Programs by Graduate Unit

Laboratory Medicine and Pathobiology

Aubert, Isabelle - BSc, PhD
Bapat, Bharati - BSc, MSc, PhD
Barber, Dwayne - BSc, PhD
Bendeck, Michelle - BSc, PhD
Bergeron, Catherine - MD
Boggs, Joan - MSc, PhD
Bognar, Andrew - BSc, PhD
Branch, Donald - BA, BSc, PhD
Bremner, Roderick Angus - BSc, PhD
Brown, Martha - BSc, MSc, PhD
Brunton, James - BSc, MD
Buchan, Alison - BSc, MASc, PhD
Cole, David - BSc, MD, PhD
Connelly, Philip - BA, PhD
Courtman, David - BSc, MSc, PhD
Crowcroft, Natasha - BA, MA, MSc, MBBS, PhD
Cutz, Ernest - MD
Cybulsky, Myron - MD
Dennis, James - PhD
Denomme, Gregory - BSc, PhD
Diamandis, Eleftherios - BSc, MD, PhD
Dirks, Peter - MD, PhD
Dittakavi, Sarma - BSc, MSc, PhD
Done, Susan - BA, MA, MBA, BSc, MB, PhD
Drucker, Daniel - MD
Elsholtz, Harry - BSc, MSc, PhD (Coordinator of Graduate Studies)
Gallinger, Steven - MSc, MD
Girardin, Stephen - BSc, PhD
Gotlieb, Avrum - BSc, MDCM
Grynpas, Marc - MSc, PhD
Gupta, Neenu - BM
Hamel, Paul - BSc, PhD
Harrison, Rene - BS, MS, PhD
Hawkins, Cynthia - MD, PhD
Hedley, David - MD
Hegele, Richard - MD (Chair and Graduate Chair)
Hinek, Aleksander - MD, PhD
Hough, Margaret - BSc, PhD
Hu, Jim - BSc, PhD
Husain, Mansoor - MB, MD
Hwang, David - BSc, MD, PhD
Irwin, David - BSc, PhD
Irwin, Meredith - MD
Jin, Tianru - MD
Johnston, Miles - BSc, PhD
Joshi-Sukhwat, Sadhana - BSc, MSc, PhD, DSc
Jothy, Serge - MSc, MD, PhD
Kain, Kevin - MD
Kandel-Reid, Suzanne - BA, MA, PhD
Kandel, Rita - MD
Keeley, Frederick - BSc, PhD
Khokha, Rama - BSc, MSc, PhD
Lazarus, Alan - PhD
Levy, Gary - BSc, MD
Lingwood, Clifford - BSc, PhD
Low, Donald - BSc, MD
Mahuran, Don - BA, PhD
Marsden, Philip - MD
Mazzulli, Tony - MD
McCulloch, Christopher - BSc, DDS, PhD
McKerlie, Colin - DVM, DVM
McLaurin, Joanne - BSc, MSc, PhD
Mekhail, Karim - BSc, PhD
Minta, Joe - BSc, MBA, MSc, PhD
Mogridge, Jeremy - BSc, PhD
Ni, Heyu - MSc, MD, PhD
Ohh, Michael - BSc, PhD
Opas, Michal - MSc, PhD
Ostrowski, Mario - MD
Ozelik, Hilmi - BSc, MSc, PhD
Palanivan, Nades - MSc, PhD
Post, Martin - PhD
Pritzker, Kenneth - BSc, MD
Prud'homme, Gerald - MD
Rand, Margaret - BSc, PhD
Reis, Marciano - MD
Richardson, Susan - BSc, MDCM
Robertson, Janice - BSc, PhD
Rosenblum, Norman - MD
Rowe-Magnus, Dean - BSc, MSc, PhD
Rozakis-Adcock, Maria - BSc, PhD
Rutka, James - BSc, LMCC, MD, PhD
Schmitt-Ulms, Gerold - BSc, MSc, DrReNat
Semple, John Wesley - PhD
Seth, Arun - MS, PhD
Shaw, Patricia - SB, MD
Shek, Pang - BSc, MSc, PhD
Sherman, Philip - MD
Squire, Jeremy - BSc, MSc, PhD
Srinivasan, Rajalakshmi - BSc, MA, PhD
Stewart, Duncan - MDCH
Strauss, Bradley - MD
Swallow, Carol - BA, MD, PhD
Taylor, Michael - BSc, DrMed, PhD
Templeton, Douglas - BSc, MD, PhD
Tenenbaum, Howard - DDS, PhD
Thorner, Paul - MD, DPhil
Tsao, Ming-Sound - BSc, MD
van der Kwast, Theodorus - MD, PhD
Vieith, Reinhold - BSc, MSc, PhD
Wang, Chen - MD, PhD
Wilson, Gregory - MSc, MD
Wong, Pui-Yuen - BSc, PhD
Yang, Burton - BSc, MSc, PhD
Yeger, Herman - BSc, MScPth, PhD
Yousef, George - MSc, MD, PhD
Yucel, Yeni - MD
Zacksenhaus, Eldad - PhD
Zhang, Li - MSc, MD, PhD
Zielenska, Maria - MSc, PhD

Members Emeriti
Marks, Alexander - MD, PhD
Moscarello, Mario - BA, MD, PhD

Associate Members
Blasutig, Ivan M. - BSc, PhD
Chang, Hong - MSc, MD, PhD
Clarke, Blaise - MBChB
Croul, Sidney - MD
Drews, Steven - BA, BSc, MSc, PhD
Fernandes, Bernard - MBChB
Fish, Jason - BSc, PhD
Guyard, Cyril - MSc, PhD
Huang, Annie - MD
Kapur, Bhushan - BSc, PhD
Keating, Sarah - MSc, MD
Kingdom, John - DCH, MB, MD
Kulasingam, Vathany - BSc, PhD
Lee, Jeffrey - BSc, PhD
Leytin, Valery - MSc, PhD, DSc
Li, Ren-Ke - MHiSc, MSc, MD, PhD
Licht, Christoph - MD
MacMillan, Christina - BSc, MD
Melano, Roberto - MSc, PhD
Mubareka, Samira - MD
Ng, Dominic - MD
Pillai, Dylan - BSc, MD, PhD
Pollanen, Michael - BSc, MD, PhD
Riddell, Robert - LMCC, LRCP, MBBS
Romaschin, Alexander - DipChem, BSc, PhD
Somers, Gino - MBBS, BMedSc, PhD
Tein, Ingrid - MD
Teshima, Ikuko Eileen - PhD
Faculty Affiliation
Law

Degree Programs Offered
Law – LLM, GPLLM, MSL, SJD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Bioethics
   • Law, SJD
2. Women and Gender Studies
   • Law, SJD

Overview
The Faculty of Law offers the following graduate programs.

The Master of Laws (LLM) is a one-year degree program that provides students with an opportunity for more profound study beyond their first law degree. The LLM program can be thesis-intensive (with minor coursework) or coursework-intensive (with a shorter thesis). The thesis-intensive format is for law students who have demonstrated a strong potential for advanced research and writing in a common law system. The coursework-intensive format is for law students who wish to specialize in a specific area of law or explore common law at an advanced level.

The Global Professional Master of Laws (GPLLM) is designed for lawyers, business executives, and government professionals. It is completed through an intensive 12-month delivery model with classes offered in the evenings and on weekends.

The Master of Studies in Law (MSL) is designed for scholars with no prior training in law who wish to acquire knowledge of law in order to add a legal dimension to scholarship in their own discipline.

The Doctor of Juridical Science (SJD), a thesis degree program which normally takes three years to complete, is for outstanding law students seeking to pursue careers in teaching, policy, and research. Enquiries should be directed to the Graduate Program Coordinator, Graduate Program, Faculty of Law at the address below.

Contact and Address
Web: www.law.utoronto.ca/graduate
Email: law.graduate@utoronto.ca
Telephone: (416) 978-0213
Fax: (416) 978-2648
Degree and Diploma Programs by Graduate Unit

Law

designed to accommodate an individual student and the subject matter of the thesis. However, such course of studies and the weight of the thesis shall at all times be determined by the Faculty.

- The program may be completed on a full-time or part-time basis. In the full-time LLM program, the coursework requirements must be completed by May 31 of the academic year of attendance and the thesis must be completed by August 31 of the academic year of attendance. Students must be in attendance for at least two academic sessions (eight months, September to April).

- With approval of the Associate Dean, Graduate Studies, Law, the program may be taken on a part-time basis over two years in which case the coursework requirements must be completed by May 31 of the second academic year of attendance and the thesis must be completed by August 31 of the second academic year of attendance. Continuation in the second year of the part-time LLM program is subject to the Faculty’s determination that the student has made satisfactory progress in the first year of the part-time LLM studies.

Normal Program Length: 3 sessions full-time; 6 sessions part-time

Time Limit: 3 years full-time

Course List

LAW 245Y Alternative Approaches to Legal Scholarship

Global Professional Master of Laws

Minimum Admission Requirements

- There are two paths of admission to this program:
  - Bachelor of Laws (LLB) or Juris Doctor (JD) with a minimum B+ standing from a recognized university, or equivalent, plus a minimum of three years of substantive legal work experience at a law firm, government, or public-interest organization.
  - Bachelor’s degree in any other discipline with a minimum B+ standing from a recognized university, or equivalent, plus a minimum of five years of leadership experience in government, a public institution, a bank, a corporation with international exposure, or other complex organization.

- Applicants are expected to meet the SGS language requirements.

Program Requirements

- 24 credits (equivalent to 6.0 full-course equivalents [FCEs]), as follows:
  - 18 credits (equivalent to 4.5 FCEs), consisting of six required seminar courses (as set out below) worth 3 credits each. Each 3-credit seminar course will entail 24–36 hours of in-class instruction time.
  - 6 credits (equivalent to 1.5 FCEs) consisting of three intensive weekend seminar courses (as set out below) worth 2 credits each (equivalent to 0.5 FCE) and entailing 16 hours of in-class instruction. Each seminar course will be chosen from two options as follows: one of LAW 4011H or LAW 4012H, one of LAW 4013H or LAW 4014H, and one of LAW 4015H or LAW 4016H.

Normal Program Length: 3 sessions full-time

Time Limit: 3 years full-time

Course List

The following six courses are required.

- LAW 4011H Law and Policy of Public Private Partnerships
- LAW 4012H Intellectual Property Law
- LAW 4013H Regulated Industries and Competition Law
- LAW 4014H International Insolvency Law
- LAW 4015H Organization of Transactional Legal Practice
- LAW 4016H Corporate Social Responsibility, Ethics and the Law

Master of Studies in Law

Minimum Admission Requirements

- At least a bachelor’s degree, and preferably a doctorate, from a recognized university with a demonstrated high level of scholarship in a discipline related to law.

- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must write the Test of English as a Foreign
Language (TOEFL) with the following minimum scores:
- paper-based TOEFL: 600 and 5 on the TWE
- Internet-based TOEFL: 100/120 and 22/30 on the writing and speaking sections.

Offers of admission conditional upon successful completion of an English language test will not be offered.

Program Requirements

- The student must pursue a course of studies approved by the Faculty and by the SGS Admissions and Programs Committee. The course of studies will comprise at least 28, and not more than 32, course hours and will include at least 3 of the following subjects: contracts, torts, property, criminal law, constitutional law, and civil procedure.
- The program will also include a research project of an interdisciplinary nature.
- The student must be in full-time attendance for two academic sessions (eight months).

Note: In no circumstance will courses taken in an MSL program be accredited for the JD program.

Normal Program Length: 3 sessions full-time
Time Limit: 3 years full-time

Course List
LAW 245Y Alternative Approaches to Legal Scholarship

Doctor of Juridical Science

Minimum Admission Requirements

- Bachelor of Laws or Juris Doctor degree (with a minimum average equivalent to a University of Toronto B+) from a recognized university and a Master of Laws (with a minimum average equivalent to a University of Toronto B+) from a recognized university or possess equivalent qualifications. The Associate Dean, Graduate Studies, Law has the discretion to permit direct entry into the SJD following completion of the Bachelor of Laws or Juris Doctor degree where the Graduate Committee is satisfied that the applicant’s law record demonstrates excellent potential for independent legal research and writing at an advanced level.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must write the Test of English as a Foreign Language (TOEFL) with the following minimum scores:
  - paper-based TOEFL: 600 and 5 on the TWE
  - Internet-based TOEFL: 100/120 and 22/30 on the writing and speaking sections.

Offers of admission conditional upon successful completion of an English language test will not be offered.

Program Requirements

SJD

- A student must remain in attendance for at least two academic sessions (eight months, September to April).
- Complete the graduate seminar, LAW 245Y Alternative Approaches to Legal Scholarship.
- Other coursework requirements are optional and shall be determined upon consultation with the supervisor. All coursework shall be subject to the approval of the Associate Dean, Graduate Studies, Law.
- Area Requirement: Before being allowed to proceed with formal research on a thesis topic, a student must demonstrate competence in a broader area within which the topic falls. An Individual Area Committee (established by the student and approved by the Associate Dean, Graduate Studies, Law) assists in framing that area and compiling an appropriate plan for carrying out the research. The research undertaken by the student either culminates in a written exam, based on the reading list, or else consists of a research project which is either a draft of a chapter of the thesis, or an overview of the general argument. Both paths lead to an oral exam based on the written work and the reading list. Normally, a student will have satisfied the area requirement by the end of the first year of registration.
- A student will not be allowed to continue in the doctoral program, where, in the opinion of the Area Committee, the student is not capable of demonstrating the capacity for independent legal research and writing at an advanced level.
- Following completion of the area requirements, a thesis must be prepared which, in the opinion of the Faculty, constitutes a distinct contribution to legal research or scholarship, and the student must pass a doctoral final oral examination based on the thesis.
- The thesis must be completed within five years from the date of enrolment in the program.
- No candidate will be recommended for the degree until the thesis has been approved by the Faculty of Law and is presented in publishable form, as described in the PhD regulations in this calendar.

Direct-Entry SJD

- A student must be in attendance for at least four academic sessions (two periods of eight months each, September to April).
• Complete at least 8 credit hours (equivalent to 2.0 FCEs), including the graduate seminar, LAW 245Y Alternative Approaches to Legal Scholarship.
• All coursework shall be subject to the approval of the Associate Dean, Graduate Studies, Law.
• Area Requirement: Before being allowed to proceed with formal research on a thesis topic, a student must demonstrate competence in a broader area within which the topic falls. An Individual Area Committee (established by the student and approved by the Associate Dean, Graduate Studies, Law) assists in framing that area and compiling an appropriate plan for carrying out the research. The research undertaken by the student either culminates in a written exam, based on the reading list, or else consists of a research project which is either a draft of a chapter of the thesis, or an overview of the general argument. Both paths lead to an oral exam based on the written work and the reading list. Normally, a student will have satisfied the area requirement by the end of the first year of registration.
• A student will not be allowed to continue in the doctoral program, where, in the opinion of the Area Committee, the student is not capable of demonstrating the capacity for independent legal research and writing at an advanced level.
• Following completion of the area requirements, a thesis must be prepared which, in the opinion of the Faculty, will constitute a distinct contribution to legal research or scholarship, and the candidate must pass a doctoral final oral examination based on the thesis.
• The thesis must be completed within six years from the date of enrolment in the program.
• No candidate will be recommended for the degree until the thesis has been approved by the Faculty of Law and is presented in publishable form, as described in the PhD regulations in this calendar.

Normal Program Length: 3 years full-time; 5 years direct-entry
Time Limit: 5 years full-time; 6 years direct-entry
Course List
LAW 245Y Alternative Approaches to Legal Scholarship

Graduate Faculty

Full Members
Alarie, Benjamin - LLB, AB, LLM, MA
Alston, Philip - BComm, LLB, LLM, LLM, JD
Anand, Anita - BA, LLB, MA, LLM
Austin, Lisa - BA, BSc, LLB, MA
Benson, Peter - LLB, LLM, PhD
Brudner, Alan S - BA, MA, PhD
Brunnee, Jutta - LLM, SJ (Associate Dean, Graduate Studies)
Chapman, Bruce - BA, LLB, PhD
Choudhry, Sujit - LLB, LLM
Cook, Rebecca - BA, LLM, MA, MAP, JD, SJ D
Cossman, Brenda - LLB, LLM
Dawood, Yasmin - BA, MA, JD, PhD
Dewees, Donald - LLB, BScEE, PhD
Drassinower, Abraham - BPhil, LLB, MA, PhD
Dubber, Markus - AB, JD
Duggan, Anthony - BA, LLB, LLM, LLB
Dyzenhaus, David - BA, LLB, PhD
Emon, Anver - LLB, BA, LLM, MA, PhD, SJ D
Fadel, Mohammad - BA, JD, PhD
Fernandez, Angela - LLB, BA, BCL, LLM, MA, SJ D
Flood, Colleen - LLB, LLM, SJ D
Gaudreault-DesBiens, Jean-Francois - LLB, LLM, LLB
Green, Andrew - LLB, BA, LLM, MA, PhD
Iacobucci, Edward - LLB, MPH
Katz, Ariel - LLB, LLM, SJ D
Knop, Karen - BSc, LLB, LLM, SJ D
Langille, Brian A - LLB, BCL, BA
Lee, Ian - LLB, BCom, LLM
Lemmens, Trudo - LLM, DCL
Macintosh, Jeffrey - BSc, LLB, LLM
Macklem, Patrick - BA, LLM, LLM
Macklin, Audrey - BSc, LLB, LLM
McNeil, C. Kent - BA, LLB, DPhil
Michaels, Ralf - LLM
Moran, Mayo - BA, LLB, LLM, SJ D (Dean)
Moreau, Stephanie Sophia - BPhil, BA, JD, PhD
Morgan, Edward - LLB, BA, LLM
Nedelsky, Jennifer R - BA, MA, PhD
Phillips, James - LLM, MA, PhD
Prado, Mariana - LLM, LLM, LLM, SJ D
Reaume, Denise - BA, LLB, BCL
Ripstein, Arthur S - BA, Phm, LLM, PhD
Rittich, Kerry - BMus, LLB, SJ D
Roach, Kent - BA, LLB, LLM
Rogerson, Carol - BA, LLB, MA, LLM
Schneiderman, David - BA, LLB, LLM
Schachar, Ayelet - LLB, BA, LLM, SJ D
Shaffer, Martha - LLB, LLM, MACCT
Stewart, Hamish - BA, LLM, MA, PhD
Trebilcock, Michael - LLB, LLM
Valcke, Catherine - BCL, LLM, SJ D
Valverde, Mariana - BA, MA, PhD, Fell Royal Society of Canada
Waddams, Stephen - BA, LLB, BA, LLM, PhD, SJ D
Weinrib, Ernest - BA, LLB, PhD
Weinrib, Lorraine - BA, LLB, LLM
Yoon, Albert - BA, LLB, MA, PhD

Members Emeriti
Dickens, Bernard - LLB, LLM, PhD
Friedland, Martin - BCom, LLM, PhD

Associate Members
Hirschi, Ran - BA, LLB, MA, MPH, PhD, Canada
Research Chair
Regehr, Cheryl - AB, MA, PhD
Sanderson, Douglas - BA, LLM, JD
Stern, Simon - BA, PhD, JD

www.sgs.utoronto.ca/calendar/2011-12
Linguistics

Faculty Affiliation
Arts and Science

Degree Programs Offered
Linguistics – MA, PhD

Overview
The Department of Linguistics offers Master of Arts and Doctor of Philosophy degree programs in three fields:
- Theoretical Linguistics
- Language Variation
- Psycholinguistics

Contact and Address
Web: www.linguistics.utoronto.ca
Email: lingdept@chass.utoronto.ca
Telephone: (416) 978-4029
Fax: (416) 971-2688
Department of Linguistics
University of Toronto
Sidney Smith Hall
4th Floor, 100 St. George Street
Toronto, Ontario M5S 3G3
Canada

Degree Programs

Linguistics

Master of Arts

Minimum Admission Requirements
- Applicants with a bachelor’s degree, or equivalent, with a minimum B+ average, may be admitted to a one-year or two-year MA program, depending on their background in linguistics. Admission to a one-year program requires a strong background in linguistics with at least courses in introductory phonetics, phonology, morphology, and syntax. Admission to a two-year program is offered to exceptional applicants whose background is limited to these courses.

Program Requirements
- The one-year MA program normally requires 4.0 full-course equivalents (FCEs), including courses LIN 1121H, LIN 1131H, LIN 1181H, LIN 1290Y, and JAL 1145H, or their equivalents, if not already taken, plus other requirements as determined by the department.

Doctor of Philosophy

Minimum Admission Requirements
- University of Toronto MA in Linguistics, or its equivalent, with at least an A- average.

Program Requirements
- Students are normally required to complete 3.0 full-course equivalents (FCEs) during the first year. Generals papers (LIN 2201H and LIN 2202H) in two areas of concentration (at least one of which must be in an area of linguistic theory) must be completed by the end of the second year.
- During these two years, students are normally required to be on campus full time for a residence period which entails being in such geographical proximity as to be able to visit the campus regularly and to participate fully in the department’s activities associated with the program.
- The language requirement as outlined for the MA degree must be satisfied. Additionally, there is one more language requirement. Other requirements are determined in consultation with the Graduate Coordinator.
- Candidates are required to present a thesis which must be an original contribution to linguistic knowledge. Both the preparation for and the writing of the thesis will be carried out under the supervision of members of the department.

Normal Program Length: 4 years full-time
Time Limit: 6 years full-time
Course List

Course descriptions and other information are available each spring from the Coordinator of Graduate Studies. Not all courses are offered in a given year. Students should consult the departmental website.

JAL 1140H Special Topics in Anthropology and Linguistics
JAL 1145H Introduction to Field Methods
JAL 1155H Language and Gender
JAL 1170H Language Typology
JAL 1171Y Dialectology
JLP 2450H Psycholinguistics
JLP 2451H Language Acquisition
JLP 2452H Language Acquisition and Linguistic Theory
JRL 1100Y Introduction to Romance Philology
LIN 1000Y Introduction to Linguistics
LIN 1005H Quantitative Methods in Linguistics (Credit/No Credit)
LIN 1028H Phonetics
LIN 1029H Sound Patterns in Language
LIN 1031H Syntactic Patterns
LIN 1032H Introduction to Semantics
LIN 1105H Linguistic Structures
LIN 1106Y Linguistic Structures
LIN 1115H Second Language Acquisition
LIN 1121H Phonological Theory
LIN 1126H Phonetics
LIN 1127H Phonetic Analysis
LIN 1131H Introduction to Syntactic Theory
LIN 1133H Morphology: Morphosyntactic Issues
LIN 1145H Semantics
LIN 1151H Urban Dialectology
LIN 1152H Topics in Language Variation and Change
LIN 1156H Language Variation and Change: Theory and Analysis
LIN 1162H Comparative-Historical Linguistics I
LIN 1172H Introduction to Cognitive Linguistics
LIN 1180H History of Linguistic Thought
LIN 1181H Introduction to Analysis and Argumentation
LIN 1182H Language and Mind
LIN 1221H Advanced Phonology I
LIN 1222H Advanced Phonology II
LIN 1223H Advanced Phonology III
LIN 1224H Advanced Phonology IV
LIN 1226H Advanced Phonetics
LIN 1231H Advanced Syntax I
LIN 1232H Advanced Syntax II
LIN 1233H Advanced Syntax III
LIN 1234H Advanced Syntax IV
LIN 1245H Advanced Semantics I
LIN 1246H Advanced Semantics II
LIN 1250H Topics in Speech Perception
LIN 1254H Advanced Language Variation I
LIN 1256H Advanced Language Variation II
LIN 1270H Language Processing and Linguistic Theory
LIN 1290Y Linguistic Forum
LIN 1321H Research in Phonology
LIN 1331H Research in Syntax
LIN 1502Y Reading Seminar
LIN 1503H Research Seminar
LIN 1504Y Research Seminar
LIN 1505H Research Seminar
LIN 1507H Individual Readings I
LIN 1509H Individual Readings II
LIN 2201H Generals Paper I
LIN 2202H Generals Paper II

Graduate Faculty

Full Members

Bhatt, Parth - BA, MA, PhD
Binnick, Robert - BA, MA, PhD
Brousseau, Anne-Marie - PhD
Chambers, Craig - BA, MA, MA, PhD
Colantoni, Laura - MA, PhD
Cowper, Elizabeth - BA, AM, PhD

(Director of Graduate Studies)

Dresher, B Elan - BA, PhD
Ippolito, Michela - BA, MPH, PhD
Johns, Alana - BA, MA, PhD
Kahnemuyipour, Arsalan - PhD
Kang, Yoon Jung - BA, PhD
Kochetov, Alexei - BA, MA, PhD
Massam, Diane - BA, MA, PhD
Nagy, Naomi - BA, PhD
Paz, Alejandro - BA, MPA, MA
Perez-Leroux, Ana Teresa - MA, PhD
Rice, Keren - BA, MA, PhD
Roberge, Yves - BA, MA, PhD
Schallert, Joseph - PhD
Sidnell, Jack - BA, MA, PhD
Smyth, Ronald - BA, MSc, PhD
Tagliamonte, Sali - AB, MA, DPhil

Members Emeriti

Chambers, J - DipEd, BA, MA, PhD
Reich, Peter - BS, MS, PhD

Associate Members

Cuervo, Maria Cristina - PhD
Gold, Elaine - BA, MA, PhD
Heller, Daphna - PhD
Helms-Park, Rena - BA, MA, AM, DPhil
Narayan, Chandan - AB, MA, PhD
Nikiema, Emmanuel - PhD
Pirvulescu, Mihaela - MA, PhD
Steele, Jeffrey - BA, MA, PhD
Faculty Affiliation
Management

Degree Programs Offered
Management – MBA, BASc/MBA, JD/MBA, PhD
Executive Master of Business Administration – MBA
Omnium Global Executive Master of Business Administration – MBA
Finance – MF

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Asia-Pacific Studies
   • Management, MBA
2. Environmental Studies
   • Management, MBA, PhD
3. Management and Economics
   • Management, PhD

Overview
The Rotman School of Management offers a suite of management programs including the Master of Business Administration, available in two-year and three-year formats; an Executive Master of Business Administration, a one-year format designed for senior managers; the Omnium Global Executive Master of Business Administration, an alternative to the EMBA for executives wanting to participate in an internationally-focussed business program; the Master of Finance, training tomorrow’s global finance leaders; and a world-class doctoral program, the Doctor of Philosophy. The PhD program offers specialization in six different fields:
   - Accounting
   - Finance
   - Organizational Behaviour and Human Resource Management
   - Marketing
   - Operations Management
   - Strategic Management
Other areas are available for selection as the minor field in Management, including International Business.
In addition, the Rotman School of Management offers two combined MBA degree programs. The Combined JD/MBA is a four-year program offered by the Faculty of Law and the Rotman School of Management for students who wish to combine graduate training in management with a degree in law.

Contact and Address
Web:
   general: www.rotman.utoronto.ca
   Global Executive MBA: www.omniumgemba.com
Telephone:
   MBA: (416) 978-3499
   Executive MBA: (416) 946-3022
   Global Executive MBA: (416) 946-3022
   PhD: (416) 978-4226

Rotman School of Management
University of Toronto
105 St. George Street
Toronto, Ontario M5S 3E6
Canada

Degree Programs
Management

Master of Business Administration
Two-Year Program

Minimum Admission Requirements
- Applicants are considered under the General Regulations of the School of Graduate Studies.
- an appropriate bachelor’s degree from a recognized university
- Applicants must obtain a satisfactory score on the Graduate Management Admissions Test (GMAT) or the Graduate Records Examinations (General). Test results are valid for five years.
- A minimum of two years of full-time work experience.
- The two-year MBA program admits annually in September. Applicants for the two-year program are encouraged to apply before January 15 and no later than April 30 (final deadline).

Program Requirements
- Within this 16-month program (two academic years) students must:
  - Complete a set of mandatory first-year courses at the 1000 level. Each course has a weighting of one, two, or three modules. Three-module courses are equivalent to three credit hours (no advanced standing will be granted for previous
Degree and Diploma Programs by Graduate Unit

Three-Year Program

Minimum Admission Requirements

• Applicants are considered under the General Regulations of the School of Graduate Studies
• An appropriate bachelor's degree
• Applicants must obtain a satisfactory score on the Graduate Management Admissions Test (GMAT) or the Graduate Record Examinations (General Test). Test results are valid for five years.
• Preferential consideration given to applicants who demonstrate a minimum of two years of full-time work experience.
• The three-year MBA program admits annually in September. Applicants for the three-year MBA program should apply by February 1.

Program Requirements

• This program, designed for working professionals, covers the equivalent of two academic years but is delivered over a three-year period.
• There are two sections in the three-year program: evening section (36 months) and morning section (32 months).
• Students must:
  o Complete a set of mandatory 1000-level courses. Each course has a weighting of one, two, or three modules. Three-module courses are equivalent to three credit hours (no advanced standing will be granted for previous academic work completed or professional designations earned).
  o Complete 5.0 full-course equivalents (FCEs) at the 2000 level (equivalent to ten 2000-level courses). With the permission of the Academic Director, Morning and Evening MBA Programs, students may take up to five 2000-level courses from another graduate unit or participate in an international exchange program approved by the Rotman School of Management or the University of Toronto. In all cases, courses selected are subject to the approval of the Academic Director, Morning and Evening MBA Programs.

Normal Program Length: 4 sessions (2 years) full-time
2-year MBA; 8 or 9 sessions part-time 3-year MBA

Time Limit: 3 years full-time (2-year MBA); 6 years part-time (3-year MBA)

Combined JD (Law)/MBA (Management)

Minimum Admission Requirements

• Applicants must be admitted to both the Faculty of Law and the Rotman School of Management. Individual applications are required for both programs and applicants must satisfy the admission requirements of both faculties independently.
• Management admission criteria are the same as those for the two-year MBA program, with the following exception: although work experience is not a requirement, the average MBA student has five years' experience. It is expected that JD/MBA applicants' academic and personal background reflects diversity and life experience.
• Applicants must obtain satisfactory scores on the Law School Admission Test (LSAT) and the Graduate Management Admission Test (GMAT) or the Graduate Record Examinations (General). Test results are valid for five years.
• Students who are in the first year of either of the JD or two-year program may apply for admission to the combined JD/MBA program by meeting the normal application and admission requirements for the other faculty.

Program Requirements

• Within this combined four-year program, students must:
  o register and complete the first year of the JD program with at least a B standing to continue in the program.
  o complete the MBA 1000-level core courses with at least a B+ to be eligible to continue in the program.
  o complete a further 3.0 full-course equivalents (FCEs) at the 2000 level (equivalent to six 2000-level courses) from the Rotman School of Management and 45 credits from the Faculty of Law (in addition to the JD requirements to complete a moot, a perspectives course, and the Extended Writing Requirement).
• At the completion of the four-year combined program, the successful student is awarded both the Juris Doctor and the Master of Business Administration degrees which, if taken separately, would require five years of study.

Time Limit: 4 years full-time
Combined BASc (Engineering)/MBA (Management)

Minimum Admission Requirements
- Applicants must apply, meet all the admission requirements for both the BASc and the MBA, and be accepted into each program.
- Students in the second or third undergraduate year at the Faculty of Applied Science and Engineering are eligible to apply for the combined BASc/MBA degree program.
- Applicants need a minimum B+ average in each of the following four sessions: 1W, 2F, 2W, 3F; students with one session slightly below B+ who meet all other entrance parameters should still apply.

Program Requirements
- Within this combined six-year-and-eight-month program, students in:
  - **Years 1–4:** complete engineering studies before entering MBA studies; participate in the Professional Experience Year (PEY) placement.
  - **Year 5:** complete a set of mandatory 1000-level MBA courses. Each course has a weighting of one, two, or three modules. Three-module courses are equivalent to three credit hours (no advanced standing will be granted for previous academic work completed or professional designations earned).
  - **Year 6:** students must complete nine 2000-level courses (4.5 FCEs) and a required MGT 2050H Technology and Management Interface course (0.5 FCE) at the Rotman School of Management. Up to two of the 2000-level management courses may be replaced by 400-level or higher engineering courses from the Faculty of Applied Science and Engineering. Students must also ensure that they complete any additional required electives from the Faculty of Applied Science and Engineering to ensure they have met their BASc degree requirements. Elective requirements vary for each engineering program area; consultation with a Faculty of Applied Science and Engineering counsellor is strongly encouraged.
- All students are required to complete a Management Experience Year (MEY). Consult the Faculty of Applied Science and Engineering for detailed MEY requirements.

Time Limit: 4 years full-time

Courses for the MBA
Weighting for 1000-level courses is determined by the second digit of the four-digit course number as follows:

Second Digit Course Weight
0 CR/NCR (Credit/No Credit)
1 one credit hour
2 two credit hours
3 three credit hours
The department should be consulted each session as to course offerings.

1000 Level
- RSM 1103H Business Ethics
- RSM 1151H Strategy I
- RSM 1152H Strategy II
- RSM 1210H Managerial Economics
- RSM 1211H Economic Environment of Business
- RSM 1212H Global Managerial Perspective
- RSM 1222H Managerial Accounting
- RSM 1231H Finance I: Capital Markets & Valuation
- RSM 1232H Finance II: Corporate Finance
- RSM 1241H Operations Management
- RSM 1261H Managerial Negotiations
- RSM 1262H Leadership
- RSM 1263H Managing People in Organizations
- RSM 1291H Foundations of Integrative Thinking
- RSM 1292H Integrative Thinking Practicum
- RSM 1301H Fundamentals of Strategic Management
- RSM 1320H Financial Accounting
- RSM 1330H Business Finance
- RSM 1350H Managing Customer Value
- RSM 1382H Statistics for Management

2000 Level
- RSM 2000H Multi-Disciplinary Special Topics III: Business Problem Solving—An Integrated Approach
- RSM 2002Y Research Project
- RSM 2003H Research Project
- RSM 2009H Rotman Study Tour
- RSM 2010H Business-Government Relations
- RSM 2011H International Business
- RSM 2012H Entrepreneurship
- RSM 2015H Special Topics in Strategic Management
- RSM 2016H Special Topics in Strategic Management
- RSM 2017H Special Topics in Strategic Management
- RSM 2018H Special Topics in Strategic Management
- RSM 2019H Special Topics in Strategic Management
- RSM 2020H Health Sector Strategy & Organizations
- RSM 2021H Corporate Strategy
- RSM 2022H Competition and Strategy in Creative Industries
- RSM 2023H Strategic Change and Implementation
- RSM 2024H Outsourcing
- RSM 2025H Business Law
- RSM 2027H Not-for-Profit Consulting
- RSM 2030H Using History to Make Strategic Choices
- RSM 2050H Technology/Management Interface
- RSM 2052H Management Consulting
- RSM 2053H Organizational Strategy
- RSM 2054H Technology Strategy
Degree and Diploma Programs by Graduate Unit

RSM 2055H Cooperative Strategy
RSM 2056H Game Theory and Competitive Strategy
RSM 2057H Venture Capital
RSM 2058H Case Analysis and Presentation
RSM 2080H Special Topics in Strategic Management
RSM 2081H Special Topics in Strategic Management
RSM 2082H Special Topics in Strategic Management
RSM 2083H Special Topics in Strategic Management
RSM 2084H Special Topics in Strategic Management
RSM 2087H Corporate Citizenship Strategy
RSM 2115H Special Topics in Business Economics
RSM 2116H Special Topics in Business Economics
RSM 2117H Special Topics in Business Economics
RSM 2119H Special Topics in Business Economics
RSM 2120H Health Policy and Health Care Markets
RSM 2122H Business and the Regulatory Environment
RSM 2123H International Business in the World Economy
RSM 2125H Game Theory and Applications for Management
RSM 2126H Real Estate Development
RSM 2127H Economic Environment of International Business
RSM 2128H Real Estate Economics
RSM 2129H Forecasting Models and Econometric Methods
RSM 2130H Real Estate Investment
RSM 2140H Special Topics in Business Economics
RSM 2141H Special Topics in Business Economics
RSM 2142H Special Topics in Business Economics
RSM 2202H Planning and Control Systems
RSM 2203H Current Issues in Financial Reporting and Disclosure
RSM 2204H Taxation & Decision-Making
RSM 2209H Financial Statement Analysis
RSM 2210H Corporate Bankruptcy and Insolvency
RSM 2215H Special Topics in Accounting
RSM 2216H Special Topics in Accounting
RSM 2300H Corporate Financing
RSM 2301H Financial Management
RSM 2302H Security Analysis and Portfolio Management
RSM 2303H Risk Modelling and Financial Trading Strategies
RSM 2304H Financial Institutions and Capital Markets
RSM 2305H International Financial Management
RSM 2306H Options and Futures Markets
RSM 2307H Advanced Derivatives
RSM 2308H Financial Risk Management
RSM 2309H Mergers and Acquisitions
RSM 2310H Analysis and Management of Fixed Income Securities
RSM 2311H Applied Portfolio Management
RSM 2312H Value Investing
RSM 2315H Special Topics in Finance
RSM 2316H Special Topics in Finance
RSM 2317H Special Topics in Finance
RSM 2405H Supply Chain Management
RSM 2406H Operations Management Strategy
RSM 2407H Services Operations Management
RSM 2415H Special Topics in Management Science
RSM 2500H Marketing Strategy
RSM 2501H Global Marketing
RSM 2504H Consumer Behaviour
RSM 2505H Integrated Marketing Communication
RSM 2506H Marketing Research
RSM 2507H Marketing Analysis and Decision Making
RSM 2510H Distribution Channel Strategy
RSM 2511H Marketing Financial Services
RSM 2512H Branding
RSM 2513H Pricing
RSM 2514H Healthcare Marketing
RSM 2515H Special Topics in Marketing
RSM 2516H Special Topics in Marketing
RSM 2518H Special Topics in Marketing
RSM 2519H Special Topics in Marketing
RSM 2520H Special Topics in Marketing
RSM 2524H Design Practicum
RSM 2601H Organization Design
RSM 2602H The Socially Intelligent Manager
RSM 2603H Advanced Negotiations and Conflict Management
RSM 2605H International Organizational Behaviour
RSM 2606H Designing New Work Organizations
RSM 2607H Managerial Negotiations
RSM 2609H Management of Human Resources
RSM 2610H Industrial Relations
RSM 2612H Managing Talent for Global Operations
RSM 2615H Special Topics in Organizational Behaviour
RSM 2616H Special Topics in Organizational Behaviour
RSM 2618H Special Topics in Organizational Behaviour
RSM 2619H Power and Influence in Organizations
RSM 2704H Information Technology Management
RSM 2800H Management Science
RSM 2910H Learning How to Learn
RSM 2913H Getting It Done®
RSM 2915H Multidisciplinary Special Topics
RSM 2916H Multidisciplinary Special Topics
RSM 2917H Multidisciplinary Special Topics
RSM 2918H Multidisciplinary Special Topics
RSM 2920H Top Manager's Perspective
RSM 2922H The Opposable Mind

Executive Master of Business Administration

Minimum Admission Requirements

- Applicants are considered under the General Regulations of the School of Graduate Studies.
- Admission is restricted to applicants with significant professional work or managerial experience.
- Applicants must obtain either a satisfactory score for the Executive MBA Diagnostic Tool (EDT), the Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE; General Test). Test results are valid for five years. For further

www.sgs.utoronto.ca/calendar/2011-12
Degree and Diploma Programs by Graduate Unit

details, refer to the website or contact the program office.

- Please note special program fees apply for this program.

Program Requirements

- Within this 13-month program:
  - Students complete 23 courses with an accumulated credit weighting of 11.25.
  - One or more of the course(s) may be substituted by course(s) offered in the regular MBA program at the discretion of the Associate Dean.
  - The Executive MBA is offered on Fridays and weekends every other week, plus four week-long residential modules and study periods.
  - With the permission of the Associate Dean and EMBA Program Director, students may participate in an international exchange program approved by the Rotman School of Management for one course.

Normal Program Length: 4 sessions (13 months) full-time

Courses for the EMBA

- RSM 5001H Strategy 1
- RSM 5002H Strategy 2
- RSM 5003H Personal Leadership 1
- RSM 5004H Personal Leadership 2
- RSM 5005H The Business Environment 1
- RSM 5006H The Business Environment 2
- RSM 5007H International Business
- RSM 5009H Topics in Strategic Management
- RSM 5011H Capstone Project: The Responsible Leader
- RSM 5012H Special Topics in Strategic Management
- RSM 5101H Economics 1
- RSM 5102H Economics 2
- RSM 5201H Accounting 1
- RSM 5202H Accounting 2
- RSM 5291H Foundations of Integrative Thinking
- RSM 5301H Finance 1
- RSM 5302H Finance 2
- RSM 5401H Business Operations
- RSM 5501H Marketing 1
- RSM 5502H Marketing 2
- RSM 5601H Organizational Leadership 1
- RSM 5602H Organizational Leadership 2
- RSM 5801H Quantitative Reasoning for Management

Global Executive Master of Business Administration (Omnium)

Minimum Admission Requirements

- Applicants are considered under the General Regulations of the School of Graduate Studies.
- Admission is restricted to applicants with significant professional work or managerial experience.

- Applicants must obtain either a satisfactory score for the Executive MBA Diagnostic Tool (EDT), the Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE; General Test). Test results are valid for five years. For further details, refer to the website or contact the program office.

Please note special program fees apply for this program.

Program Requirements

- Within this 18-month program:
  - Students complete 23 courses with an accumulated credit weighting of 11.25
  - Students complete several international modules, each module varying in length from two to three weeks at various international locations which are subject to change. For further details, please refer to the website or contact the program.
  - The curriculum is closely aligned with courses offered in the Executive MBA program. Between modules, participants continue their academic work by utilizing our electronic learning tools.

Normal Program Length: 5 sessions (18 months) full-time

Courses for the GEMBA

- RSM 5001H Strategy 1
- RSM 5002H Strategy 2
- RSM 5004H Personal Leadership
- RSM 5005H The Business Environment 1
- RSM 5006H The Business Environment 2
- RSM 5007H International Business
- RSM 5009H Topics in Strategic Management
- RSM 5010H Industry Analysis Project
- RSM 5011H Capstone Project: the Responsible Leader
- RSM 5012H Special Topics in Strategic Management
- RSM 5101H Economics 1
- RSM 5102H Economics 2
- RSM 5201H Accounting 1
- RSM 5202H Accounting 2
- RSM 5301H Finance 1
- RSM 5302H Finance 2
- RSM 5401H Business Operations
- RSM 5501H Marketing 1
- RSM 5502H Marketing 2
- RSM 5601H Organizational Leadership 1
- RSM 5602H Organizational Leadership 2
- RSM 5801H Quantitative Reasoning for Management
- RSM 5901H Technology Innovation

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations.
• Some depth in the cognate disciplines relevant to the field of specialization is required.
• These requirements may be satisfied prior to entry to the PhD program through an MBA degree program coupled with a relevant undergraduate degree, or through an undergraduate degree in business, management, or commerce coupled with a discipline-based master’s degree.
• If the depth requirements are completed prior to entry to the PhD program, the student is expected to complete the program in four years. If additional coursework is required, then the student may need an additional year to complete the program.
• Applicants should provide:
  o Transcripts from each post secondary institution attended.
  o A letter of intent for applying to the PhD program.
  o An updated Curriculum Vitae (CV).
  o Two reference letters.
  o A valid GMAT or GRE score.
  o Proof of English language facility, if applicable.

Program Requirements

• Students spend the first two years on campus, registered as full-time students. During this time, they are normally expected to complete coursework. The program consists of a major field and two minor fields of study.
• Within this PhD program, students normally:
  o Complete a minimum of 4.0 full-course equivalents (FCEs) to satisfy requirements for one major field and two minor fields of study.
  o A minimum of 2.0 FCEs comprise the major field. These will normally be taken from 3000-level Management courses, but additional courses from other departments may be required.
  o The two minor fields are usually taken in cognate departments. Each minor field comprises at least 1.0 FCE.
  o Successful completion of the required course MGT 3080H Research Methods in Business.
  o A student is expected to be qualified in the three basic disciplines essential to the study of Management: economics, behavioural science, and quantitative analysis/statistics.
  o Upon completion of the courses in the major and minor fields, the student is expected to pass comprehensive examinations in the major field.
  o A thesis embodying the results of original investigation must be submitted and defended at a doctoral final oral examination in accordance with the regulation of the School of Graduate Studies.

Normal Program Length: 4 years full-time; students requiring additional courses may take an additional year
Time Limit: 6 years full-time

Courses for the PhD

The department should be consulted each session as to course offerings.

Courses Normally Restricted to PhD Students

RSM 3001H Research Methods in Strategic Management
RSM 3002H Advanced Topics in Strategy and Organization
RSM 3003H Advanced Topics in Strategy and Economics
RSM 3004H Advanced Topics in International Strategy
RSM 3005H Strategic Management Workshop
RSM 3009H Special Topics in Strategic Management
RSM 3029H Special Topics in Accounting
RSM 3039H Special Topics in Finance
RSM 3049H Special Topics in Operations Management
RSM 3059H Special Topics in Marketing
RSM 3069H Special Topics in Organizational Behaviour and Human Resources Management
RSM 3020H Financial Accounting: Theory and Empirical Research
RSM 3021H Managerial Accounting Research Methods
RSM 3022H Auditing Seminar
RSM 3023H Topics in Accounting Research
RSM 3025H Workshop in Accounting
RSM 3030H Financial Theory I
RSM 3031H Financial Theory II
RSM 3032H Empirical Methods in Finance
RSM 3033H Current Topics in Finance
RSM 3034H Capital Markets Workshop
RSM 3035H Seminar in Operations Management
RSM 3045H Advanced Topics in Operations Management I
RSM 3046H Advanced Topics in Operations Management II
RSM 3051H Marketing Theory I: Consumer Behaviour
RSM 3052H Marketing Theory II: Strategy
RSM 3053H Behavioural Research Methods in Marketing
RSM 3054H Current Topics in Consumer Behaviour
RSM 3055H Econometric Methods in Marketing
RSM 3056H Current Topics in Marketing Strategy
RSM 3057H Workshop in Marketing (Credit/No Credit)
RSM 3058H The Psychology of Judgement and Decision Making
RSM 3060H Advances in Human Resource Management
RSM 3062H Methods and Research in Organizational Behaviour and Industrial Relations
RSM 3063H Advanced Topics in Organization Theory
Degree and Diploma Programs by Graduate Unit

Finance

Master of Finance

Minimum Admission Requirements

- Applicants are admitted under the General Regulations, including an appropriate bachelor’s degree from a recognized university with a mid-B average in the final year of undergraduate or prior graduate education. If an applicant believes that his or her grades are not reflective of academic performance and potential (e.g., due to international differences in university assessment), or if other proof of ability such as very strong standardized test scores exist, the applicant can request special consideration from the admissions committee.

- Satisfactory score on the Graduate Management Admissions Test (GMAT) or GRE (general) examination; students who have passed all three levels of the Charter Financial Analyst (CFA) designation prior to the application deadline are exempt from the GMAT/GRE requirement.

- At least two years of full-time work experience in finance. In special circumstances, other substantial experiences will be considered in lieu of the work experience in finance, but only when accompanied by demonstrated exceptional academic and professional potential. Generally, applicants are not accepted immediately after completion of their undergraduate education, unless they have significant prior full-time work experience.

- Students who meet all the criteria will be ranked on the basis of grades, standardized graduate test scores, and professional experience by the admissions committee. The top ranked students will then be invited for interviews with Rotman faculty. The admission decision will be based on both submitted materials and interview performance.

Program Requirements

- Within this 20-month program (two academic years) students:
  - must complete a structured sequence of 14 courses taken over five semesters (including summer). No advanced standing will be granted for previous academic work completed or professional designations earned.
  - may be required to do some pre-program studies during the summer prior to the start of the program, depending on background preparation.

- All degree requirements must be completed within six years of first enrolment in the Master of Finance program.

Normal Program Length: 4 sessions (2 years) full-time
Time Limit: 3 years full-time

Courses for the MF

<table>
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<th>Course Title</th>
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</thead>
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<tr>
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<td>RSM 4311H</td>
<td>Corporate Finance and Valuation</td>
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<td>RSM 4312H</td>
<td>Derivatives</td>
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<td>RSM 4313H</td>
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<td>RSM 4314H</td>
<td>Risk Management and Financial</td>
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<td>RSM 4315H</td>
<td>Investment Banking</td>
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<tr>
<td>RSM 4316H</td>
<td>Financial Reporting and Financial</td>
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<tr>
<td>RSM 4317H</td>
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<td>RSM 4318H</td>
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<tr>
<td>RSM 4320H</td>
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<td>Decision-Making in Finance</td>
</tr>
<tr>
<td>RSM 4322H</td>
<td>Applications of Derivatives Products</td>
</tr>
<tr>
<td>RSM 4323H</td>
<td>Investments</td>
</tr>
</tbody>
</table>

Graduate Faculty

Full Members

Aggarwal, Pankaj - BEC, MBA, MBA, PhD
Aivazian, Varouj - BS, MA, PhD
Amburgey, Terry - MA, PhD
Amernic, Joel - BSc, MBA, Chartered Accountant
Averbakh, Igor - MSc, PhD
Baum, Joel - BA, MBA, PhD (Associate Dean, Faculty)
Berdahl, Jennifer - PhD
Berman, Oded - BA, PhD
Blum, Bernardo Soares - BA, MA, PhD
Booth, Laurence - BSc, MBA, MA, DBA
Borins, Sandford - BA, PhD
Brean, Donald - BA, BBA, MBA, MSc, PhD
Brooks, Leonard - BComm, MBA, Chartered Accountant
Callen, Jeffrey - BM, MBA, DPhil
Ching, Andrew Tat Tin - BEC, MA, PhD
Christoffersen, Peter - BSc, PhD
Christoffersen, Susan - BSc, MEC, MA, PhD
Corts, Kenneth - BA, MA, PhD
Cote, Stephane - PhD
D'Cruz, Joseph - BA, MBA, PhD
Doidge, Craig Andrew - BComm, MSc, PhD
Dyck, Alexander - BA, PhD
Elitzur, Ramy - BA, MBA, Phm, PhD
Florida, Richard - BA, PhD
Frazer, Garth - BE, BM, MPH, MA, PhD
Golden, Brian - BS, MS, PhD
Goldfarb, Avi - BA, MA, PhD
Goldreich, David - BS, MS, MBA, PhD
Gunz, Hugh - DPhil, PhD
Degree and Diploma Programs by Graduate Unit

Management

Hawkins, Scott - BA, MS, PhD
Hejazi, Walid - PhD
Hope, Ole-Kristian - MBA, PhD
Hurstmann, Ignatius - PhD
Hull, John - BA, MA, MA, PhD
Hyatt, Douglas - BA, MA, PhD
Jalland, R. Michael - BA, PhD
Kan, Raymond - MBA, DPhil
Kaplan, Sarah - PhD
Kirzner, Eric - BA, MBA
Kramer, Lisa - BBA, PhD
Krass, Dmitry - MEng, PhD
Latham, Gary - BA, MS, PhD
Leonardelli, Geoffrey - BA, PhD
Li, Yue - BSc, MBA, PhD
Mahrt-Smith, Jan - BSc, PhD
Martin, Roger - AB, MBA
Mccurdy, Thomas - AB, MEC, DPhil
McEvilly, William - BS, PhD
McGahan, Anita - BA, MA, MBA, PhD
Mehta, Nitin - BTech, MS, PhD
Menzerflicke, Ulrich - MBA, DBA
Milner, Joseph - BSc, SM, PhD
Mitchell, Matthew - BS, MA, PhD
Moharanam, Partha Sarathy - BTech, MBA, PhD
Moldoveanu, Miheea (Michael) - SM, DBA
Moorthy, Sridhar - BSc, MBA, MS, DPhil
Oxley, Joanne - MA, MBA, PhD
Pauly, Peter - MA, PhD (Vice Dean, Academic)
Reuber, Rebecca - BA, MSc, PhD
Richardson, Gordon - BA, MBA, DBA, Chartered Accountant
Rotenberg, Wendy - PhD
Rotundo, Maria - BA, MA, DBA
Rowley, Timothy - BA, MBA, PhD
Saks, Alan - BA, MSc, PhD
Shi, Mengze - BS, MS, MBA, PhD
Silverman, Brian - AB, MA, DBA
Smieleiaskas, Waldemar - BS, MS, PhD
Soberman, David - BSc, MBA, PhD
Somur, Dilip - BE, MBA, PhD
Stable, Mark - MA, MPH, PhD
Start, Andrew - BA, MSc, AM, PhD
Strange, William - PhD
Tombak, Mihkel - BS, MBA, AM, PhD
Treffler, Daniel - BA, MPH, PhD
Verma, Anil - BTech, MBA, DPhil
Wang, Qingshui (Kevin) - BS, MA, PhD
Wesolowski, Jason - MBA, PhD
Wensley, Anthony - BA, MA, MBA, PhD
White, Alan - BE, MBA, DPhil
Whyte, Glen - LLB, MA, MPH, MBA, PhD
Womack, Kent - BA, MBA, PhD
Wong, Moon Hung (Franco) - BA, MA, PhD
Xie, Jia Lin - PhD
Zhang, Ping - BS, MACCT, MA, DBA

Members Emeriti

Bird, Richard - BA, MA, PhD
Fleck, James - BA, DBA
Gordon, Myron - BA, MA, PhD
Kolodny, Harvey - BEng, MBA, PhD
Mitchell, Andrew - BA, PhD

Ondrack, Daniel - BComm, MBA, PhD
Safarian, Albert - BA, PhD
Sawyer, John - BCom, MA, PhD
Wilson, Thomas - BA, AM, PhD

Associate Members

Afeche, Philipp - BA, MS, PhD
Agarwal, Ajay - BASc, MEng, MBA, PhD
Baron, Opher - BSc, MBA, PhD
Borkovsky, Ron - BSc, MA, PhD
Bova, Francesco - MPH, MBA, PhD
Buti, Sabrina - BEC, MEC, PhD
Casciaro, Tiziana - BA, MS, PhD
Cen, Ling - BEC, MEC, PhD
Chen, Feng - PhD
Christianson, Marlys - MD
Davydenko, Sergei - MA, MSc, PhD
De Franco, Gus - BA, MBA, PhD
De Voe, Sanford - BA, PhD
Franco, April - BPhil, MEC, PhD
Galasso, Alberto - PhD
Han, Lu - BA, MA, PhD
Hossain, Tanjim - PhD
Hu, Ming - MS, PhD
Kim, Kyeongheui - BA, MBA, PhD
Lederman, Mara - BA, PhD
Lee, Byung Soo - BS, MA, PhD
Liao, Wei-Yi (Scott) - MA, PhD
Lu, Hai - MBA, PhD
Mazar, Nina - MBA, PhD
McCarthy, Julie - BA, MPSY, PhD
Meza, Sergio - BTech, MPH, MBA, PhD
Montes, Samantha - BA, MA, PhD
Oesch, John - BS, MSc, MBA, MEd, PhD
Poronsky, Lukasz - MA, AM, PhD
Simutin, Mikhail - BA, PhD
Toh, Soo Min - BBA, PhD
Trougakos, John Peter - BS, MBA, PhD
Tsai, I-Wen (Claire) - BBA, MBA, PhD
Xin, Baohua - PhD
Yang, Liyan - PhD
Ye, Minlei - PhD
Zhao, Min - BA, MA, PhD
Zhong, Chenbo - BA, MA, PhD
Zweig, David - DPhil

Members Emeriti

Bird, Richard - BA, MA, PhD
Fleck, James - BA, DBA
Gordon, Myron - BA, MA, PhD
Kolodny, Harvey - BEng, MBA, PhD
Mitchell, Andrew - BA, PhD

www.sgs.utoronto.ca/calendar/2011-12
Materials Science and Engineering

Faculty Affiliation
Applied Science and Engineering

Degree Programs Offered
Materials Science and Engineering – MASc, MEng, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Biomedical Engineering
   • Materials Science and Engineering, MASc, PhD
2. Environmental Engineering
   • Materials Science and Engineering, MASc, MEng, PhD

Overview
The Department of Materials Science and Engineering offers graduate programs leading to the degrees of Master of Applied Science, Master of Engineering, and Doctor of Philosophy. Graduate courses and research opportunities are offered to qualified students in a wide range of subjects.

Typical subjects in extractive and process metallurgy involve a study of the equilibria existing during the reduction of oxides with carbon and metals, life cycle analysis of materials, properties of iron and steelmaking slags, the fundamental properties of fused salt solutions, fused salt electrolysis of reactive metals, kinetics of high-temperature reactions, mathematical modelling of metallurgical processes, process metallurgy, and hydrometallurgy.

Typical physical metallurgy and materials science subjects deal with the structure and properties of metallic, ceramic, polymeric, and nanomaterials in such fields as plastic deformation, surface chemistry, sustainable development, electron microscopy, biomaterials, nuclear materials, metal-matrix composites (MMCs), metallic glasses, corrosion, fatigue, welding and bonding, phase transformations and solidification. These studies are all related to the general problem of understanding structure-property-processing relationships in materials.

Contact and Address
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Telephone: (416) 978-3012
Fax: (416) 978-4155

Degree Programs
Materials Science and Engineering

Master of Applied Science
Minimum Admission Requirements
• Students are accepted under the General Regulations of the School of Graduate Studies.
• For students whose primary language is not English, the department requires a TOEFL (Test of English as a Foreign Language) with the following minimum scores. Paper-based TOEFL: minimum score of 580 and 4 on the TWE. Internet-based TOEFL: minimum score of 93/120 and 22/30 on the writing and speaking sections.

Program Requirements
• The program of study normally includes 2.0 FCEs (four half courses), including the weekly MASc Graduate Research Seminar, the Graduate Ethics Seminar, and a thesis. Normally, the coursework selected includes the MASc Graduate Research Seminar, which is a half-year course, and three half courses, one of which is normally taken inside the department.
• The required thesis is based upon research work carried out in the department in the fields of extractive and process metallurgy, physical metallurgy, or materials science. The thesis must be presented at an oral examination.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Master of Engineering
Minimum Admission Requirements
• Students are accepted under the General Regulations of the School of Graduate Studies.
• For students whose primary language is not English, the department requires a TOEFL (Test of English as a Foreign Language) with the following minimum scores. Paper-based TOEFL: minimum score of 580 and 4 on the TWE. Internet-based TOEFL: minimum score of 93/120 and 22/30 on the writing and speaking sections.
**Program Requirements**

- For students with adequate undergraduate preparation, the normal program will include 5.0 FCEs (10 half-courses). A project may be substituted for 1.5 FCEs (3 half-courses). Students enrolled in this option work in consultation with a professor who acts as advisor for the project undertaken. The project must be presented at an oral examination.

**Normal Program Length**: 4 sessions (2 years) full-time; 6 sessions part-time

**Time Limit**: 3 years full-time; 6 years part-time

**Doctor of Philosophy**

**Minimum Admission Requirements**

- Students are normally expected to have completed the master's program before entering the PhD program.
- Very strong MASc students may apply to transfer to the PhD program after completing one year of the MASc program. Regulations governing such transfers are available in the Materials Science and Engineering Graduate Studies office. A student who is permitted such a transfer must complete only the PhD Graduate Research Seminar in addition to the four courses completed in the MASc program.
- For students whose primary language is not English, the department requires a TOEFL (Test of English as a Foreign Language) with the following minimum scores. Paper-based TOEFL: minimum score of 580 and 4 on the TWE. Internet based TOEFL: minimum score of 93/120 and 22/30 on the writing and speaking sections.

**Program Requirements**

- The major subject in a program will be extractive and process metallurgy, physical metallurgy, or materials science.
- The program of study normally includes 2.0 FCEs (four half courses), including the weekly PhD Graduate Research Seminar, and a thesis. Normally, the coursework selected includes the PhD Graduate Research Seminar, which is a half-year course, and three half courses, at least one of which must be taken inside the department. In the PhD program, the departmental seminar comprises a minimum of two seminars presented to the academic staff/students of MSE.
- Within 12 months of initial enrolment, all PhD students must pass a general Qualifying Examination based on the course material taken within the department and on background knowledge in the student's field of specialization.

- The required thesis is based upon research work carried out in the department in the fields of extractive and process metallurgy, physical metallurgy, or materials science.

**Normal Program Length**: 4 years full-time; 5 years direct-entry

**Time Limit**: 6 years full-time; 7 years direct-entry

**Course List**

A schedule is available on the MSE website at the beginning of the fall session, listing the time and room location for each course offered in MSE. Not all courses are offered every year. Please consult the department for a listing of courses being offered this year.

All students wishing to undertake graduate research in the Department of Materials Science and Engineering must successfully complete a two-day intensive occupational health and safety training program which will normally take place during the week immediately preceding the commencement of graduate courses. More details concerning this course will be provided by the Coordinator of Graduate Studies once admission to a graduate program has been confirmed.

After the initial safety training, all students are required to pass refresher safety training annually.

**Materials Science**

- MSE 550H Advanced Physical Properties of Structural Nanomaterials
- MSE 558H Nanotechnology in Alternate Energy Systems
- MSE 561H Engineered Ceramics
- MSE 1000H Graduate Research Seminar MASc
- MSE 1013H Growth and Characterization of Semiconductors
- MSE 1015H Mechanical Properties of Solids I
- MSE 1016H Mechanical Properties of Solids II
- MSE 1022H Special Topics in Materials Science I
- MSE 1023H Special Topics in Materials Science II
- MSE 1024H Interface and Nanophase Engineering
- MSE 1025H Non-Crystalline Solids
- MSE 1026H Analytical Electron Microscopy
- MSE 1028H Advanced Materials Science
- MSE 1029H Electrochemical Synthesis of Nanomaterials
- MSE 1031H Forensic Engineering
- MSE 2000H Graduate Research Seminar PhD
- JMZ 1704H Polymer Process Engineering
- JTC 1020H Ceramics
- JTC 1135H Applied Surface Chemistry

**Metallurgy**

- MSE 504H Extractive Metallurgy
- MSE 1000H Graduate Research Seminar MASc
- MSE 2000H Graduate Research Seminar PhD
- MSE 3000Y MEng Project
Graduate Faculty

Full Members
Argyropoulos, Stavros - MEng, PhD
Barati Sedeh, Mansoor - BSc, MASc, PhD
Coyle, Thomas - BS, BA, ScD
Erb, Uwe - MSc, PhD
Grynpas, Marc - MSc, PhD
Hibbard, Glenn - BASc, PhD
Kherani, Nazir - BASc, MASc, PhD
Lian, Keryn - BE, MASc, MSc, PhD
Lu, Zheng-Hong - BSc, MSc, PhD
Naguib, Hani - BSc, ME, PhD, Reg Professional Engineer
Nogami, Jun - BASc, MASc, PhD (Chair and Graduate Chair)
North, Thomas - BSc, MSc, PhD
Perovic, Doug - BASc, MASc, PhD
Ruda, Harry - BSc, PhD
Sone, Eli - BSc, MS, PhD
Thorpe, Steven - BASc, MASc, PhD (Associate Chair, Graduate Studies)
Utigard, Torstein - MASc, PhD
Wang, Zhirui - BEng, BEng, MASc, PhD

Members Emeriti
Aust, Karl - BASc, MASc, PhD
Cox, Brian - BA, MA, PhD
Franklin, Ursula - PhD
Lavers, Douglas - BSc, MASc, PhD
Mclean, Alexander - BSc, PhD
Pilliar, Robert - BASc, PhD
Rutter, John - BASc, MA, PhD
Sommerville, Iain - BSc, PhD, Assoc Royal Coll of Sci

Associate Members
Ramsay, Scott - BASc, MASc, PhD
Degree and Diploma Programs by Graduate Unit

Mathematical Finance

Faculty Affiliation
Arts and Science

Degree Programs Offered
Mathematical Finance – MMF

Overview
Financial engineering is one of the fastest growing areas of applied mathematics. In the Master of Mathematical Finance program, students reshape their existing analytical abilities with the help of senior academics in mathematics, computer science, statistics, and engineering who have experience with the tools of mathematical finance. This cross-disciplinary approach develops graduates with a richer, more innovative approach to applied mathematics in real-world situations. Some of the faculty are seasoned practitioners from the financial industry while others are from leading firms in the financial software industry, developing applications around requirements like risk management, portfolio analysis, and the pricing of advanced derivatives.

The heart of the program is the four-month internship or campus project. Working on real financial projects, students learn to integrate and apply theoretical knowledge gained earlier in the program. In the internship, students team with employees of the sponsoring firm to experience how financial mathematics impacts the decision-making processes of a financial services organization.

Contact and Address
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Email: math.finance@utoronto.ca
Telephone: (416) 946-5206
Fax: (416) 946-5205

Mathematical Finance Program
University of Toronto
Suite 219, 720 Spadina Avenue
Toronto, Ontario M5S 2T9
Canada

Degree Programs

Mathematical Finance

Master of Mathematical Finance

Minimum Admission Requirements

- Students are admitted under the General Regulations of the School of Graduate Studies.

- Applicants must have an appropriate bachelor’s degree in a quantitative, technical discipline, with a minimum of a mid-B standing in the final two years.

- Applicants whose primary language is not English and who graduated from a university where the language of instruction was not English must demonstrate facility in the English language through the successful completion of the Test of English as a Foreign Language (TOEFL) with minimum scores as follows:
  - Paper-based TOEFL exam: 580 and 5 on the Test of Written English (TWE)
  - Internet-based TOEFL exam: 93/120 and 22/30 on the writing and speaking sections

- Applicants must also show evidence of strong mathematical ability. Appropriate workplace experience will be considered in lieu of formal education.

- Admission to the program is competitive. Those accepted into the program will normally have achieved a standing considerably higher than the minimum mid-B standing or have demonstrated exceptional ability through appropriate workplace experience.

- Applicants must satisfy the admissions committee of their ability to do rigorous quantitative analysis at an advanced level. The broad background required for this program makes it likely that many strong applicants will not possess all the background requirements. It is expected that applicants will have extra depth in certain areas and need to do additional work in others. Admission may be conditional upon the applicant’s satisfactory completion of the required background material.

- Applicants should submit a written statement of approximately 300 words outlining their objectives for entering the program. Applicants should also explain how their background is appropriate. An interview may be required.

- Inquiries about part-time options for the program should be addressed to the Program Director.

Program Requirements

- The program of study begins in mid-August and includes a four-month internship during the second session. Students will be responsible for obtaining their own internship. In cases where the student is taking a leave of absence from an appropriate job, it is expected that the student will return to this job for the internship. In all cases, the Director must approve the placement.

- Students will proceed through the program as a group, following a common course of study. The course of study will be fully integrated and computer-laboratory intensive. Course projects and assignments will be designed to integrate the material learned from a variety of the courses and to utilize it
in a practical context. Excellent communication and presentation skills will be emphasized in both the oral and written components of the projects.

- Students must complete all courses listed below.

**Normal Program Length:** 3 sessions full-time  
**Time Limit** – 3 years full-time

**Course List**

Courses are offered in modules. A module will consist of a four-week unit with a minimum of three contact hours per week, or its equivalent. A large portion of the learning for the module will take place outside of class through carefully designed computer projects and group study. The courses have been packaged in units of one, two, three, four, or five modules, and the course weight will be equal to the number of modules; for example, a course with three modules will have a weight of three credit hours. Six modules will be considered the equivalent of one full-course equivalent in a standard format.

The third digit of the four-digit course number determines the course weight.

**Third Digit Notation:**
1 = one-third of a half course  
2 = two-thirds of a half course  
3 = one half course  
4 = two-thirds of a full course  
5 = one full course

- MMF 1900Y Internship (Credit/No Credit)  
- MMF 1910H Introduction to Financial Industry (Credit/No Credit)  
- MMF 1914H Information Technology (Credit/No Credit)  
- MMF 1915H Introduction of Financial Products (Credit/No Credit)  
- MMF 1920H Investment and Finance  
- MMF 1921H Operations Research  
- MMF 1922H Statistics for Finance I  
- MMF 1923H Financial Markets and Corporate Policy  
- MMF 1926H Workshop in Mathematical Finance  
- MMF 1927H Workshop in Mathematical Finance  
- MMF 1928H Pricing Theory 1  
- MMF 1929H Pricing Theory 2  
- MMF 1941H Stochastic Analysis  
- MMF 1943Y Communication  
- MMF 2000H Risk Management  
- MMF 2011H Advanced Stochastic Processes  
- MMF 2012H Volatility Modelling and Forecasting  
- MMF 2021H Numerical Methods for Finance  
- MMF 2025H Risk Management Laboratory

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0 Course that may continue over a program. The course is graded when completed.

**Graduate Faculty**

**Full Members**
- Feuerverger, Andrey - BSc, PhD  
- Jackson, Kenneth - BSc, MSc, PhD  
- Jaimungal, Sebastian - BS, MS, PhD  
- Kwon, Roy - BA, MS, MSc, PhD  
- McCurdy, Thomas - AB, MEC, DPhil  
- Seco, Luis - PhD

**Associate Members**
- Kreinin, Alexander - MSc, PhD  
- Pilling, Jason - BSc, MMF  
- Rosen, Dan - BASc, MASc, PhD  
- Rubisov, Dmitri - ME, PhD  
- Tuenter, Johan - BSc, MSc, PhD
Mathematics

Faculty Affiliation
Arts and Science

Degree Programs Offered
Mathematics – MSc, PhD

Overview
The Department of Mathematics offers opportunities for research—leading to the Master of Science and Doctor of Philosophy degrees—in the fields of pure mathematics and applied mathematics. Faculty areas of research include, but are not limited to real and complex analysis, ordinary and partial differential equations, harmonic analysis, nonlinear analysis, several complex variables, functional analysis, operator theory, C*-algebras, ergodic theory, group theory, analytic and algebraic number theory, Lie groups and Lie algebras, automorphic forms, commutative algebra, algebraic geometry, singularity theory, differential geometry, symplectic geometry, classical synthetic geometry, algebraic topology, set theory, set-theoretic topology, mathematical physics, fluid mechanics, probability (in cooperation with the Department of Statistics), combinatorics, optimization, control theory, dynamical systems, computer algebra, cryptography, and mathematical finance.

Program Requirements

- Students in the 12-month program are required either (a) to successfully complete 3.0 approved full-course equivalents (FCEs) and a supervised research project (MAT 4000Y), or its equivalent, or (b) successfully complete 2.0 approved FCEs and submit an acceptable thesis. Two approved half-year courses are considered the equivalent of a full-year course. Two prerequisite courses may, with approval, be substituted for one program course. Students may, with approval, take courses outside the department as part of a coherent program.

- Students who do not have a complete undergraduate background in mathematics may be accepted into a 16-month or 24-month program which includes an approved selection of prerequisite and other courses in addition to the requirements of the 12-month program. This possibility may interest students who have some background in a subject in which mathematics is applied and/or who are interested in industrial applications of mathematics.

- Students who undertake the MSc part-time must, at a minimum, satisfy the requirements of the 12-month program.

Normal Program Length: 3 sessions full-time 1-year MSc; 4 sessions full-time 16-month MSc; 6 sessions full-time 2-year MSc; 6 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Contact and Address
Web: www.math.utoronto.ca
Email: grad-info@math.toronto.edu
Telephone: (416) 978-7894
Fax: (416) 978-4107

Department of Mathematics
University of Toronto
Room 6290, 40 St. George Street
Toronto, Ontario M5S 2E4
Canada

Doctor of Philosophy

Minimum Admission Requirements

- Normally a master’s degree from a recognized university. However, exceptionally strong BSc students may apply for direct admission to the PhD program. In all cases students must satisfy the department of their ability to do independent research at an advanced level. They must show evidence of an excellent academic background and mathematical ability.

Program Requirements

- At least 6.0 half courses or 3.0 full-course equivalents (FCEs).
- Students must pass a comprehensive examination in basic mathematics before beginning an area of specialization. This examination should be taken as soon as possible, and not later than the beginning of the third session of PhD study. The usual examination covers the three general areas of analysis, algebra, and topology, at the level of the first-year
graduate courses offered by the department in these subjects. Students planning to specialize in applied mathematics must take the analysis and/or algebra portion of the comprehensive examination, but may substitute from several areas of applied mathematics for the remaining portions.

- Students must pass a specialist oral examination or give a seminar presentation in their particular field of study before embarking on serious thesis research.

- The main requirement of the degree is an acceptable thesis embodying original research of a standard that warrants publication in the research literature.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

### Course List

Each year the department offers a selection of courses chosen from the following list, with the possibility of further additions. The courses, MAT 1000H, 1001H, 1100H, 1101H, 1300H, and 1301H will be offered each year; the complete list of courses will be available from the department in May. In addition, it may be possible for a student to arrange to take one of the listed courses as an individual reading course. Students should consult the office of the Coordinator at the beginning of the academic year.

PhD students are expected to attend and contribute to seminars in the research areas.

**Mathematics**

- MAT 1000H Real Analysis I
- MAT 1001H Real Analysis II
- MAT 1002H Complex Analysis
- MAT 1003H Theory of Several Complex Variables
- MAT 1004H Theory of Approximation
- MAT 1005H Fourier Analysis
- MAT 1006H Topics in Real Analysis
- MAT 1007H Topics in Complex Variables
- MAT 1008H Functions of a Complex Variable
- MAT 1010H Functional Analysis
- MAT 1011H Introduction to Linear Operators
- MAT 1012H Real Analysis II
- MAT 1013H Theory of Several Complex Variables II
- MAT 1015H Topics in Operator Theory
- MAT 1016Y Topics in Operator Algebras
- MAT 1017H Introduction to K-theory for Operator Algebras
- MAT 1034H Topics in Harmonic Analysis
- MAT 1035H C* Algebras
- MAT 1037H Von Neumann Algebras
- MAT 1044H Potential Theory
- MAT 1045H Topics in Ergodic Theory
- MAT 1051H Introduction to Ordinary Differential Equations
- MAT 1052H Topics in Ordinary Differential Equations
- MAT 1060H Partial Differential Equations I
- MAT 1061H Partial Differential Equations II
- MAT 1062H Topics in Partial Differential Equations I
- MAT 1063H Topics in Partial Differential Equations II
- MAT 1075H Differential Analysis
- MAT 1100H Algebra I
- MAT 1101H Algebra II
- MAT 1102H Topics in the Theory of Groups
- MAT 1103H Topics in Algebra I
- MAT 1104H Topics in Algebra II
- MAT 1109H Classical Groups
- MAT 1110H Algebraic Groups
- MAT 1120H Lie Groups and Lie Algebras I
- MAT 1121H Lie Groups and Lie Algebras II
- MAT 1122H Lie Groups and Representations I
- MAT 1124H Topics in Matrix Theory
- MAT 1126H Lie Groups and Fluid Dynamics
- MAT 1128H Topics in Probability
- MAT 1155H Commutative Algebra
- MAT 1190H Algebraic Geometry
- MAT 1191H Topics in Algebraic Geometry
- MAT 1194H Algebraic Curves
- MAT 1195H Elliptic Curves and Cryptography
- MAT 1196H Representation Theory
- MAT 1197H Automorphic Forms and Representation Theory I
- MAT 1198H Automorphic Forms and Representation Theory II
- MAT 1199H Automorphic Forms
- MAT 1200H Algebraic Number Theory
- MAT 1202H Analytic Number Theory
- MAT 1203H Computational Aspects of Number Theory
- MAT 1210H Topics in Number Theory
- MAT 1299H Point Set Topology
- MAT 1300H Topology I
- MAT 1301H Topology II
- MAT 1302H Combinatorial Theory
- MAT 1303H Combinatorial Designs
- MAT 1304H Topics in Combinatorics
- MAT 1309H Geometrical Inequalities
- MAT 1312H Topics in Geometry
- MAT 1313Y Seminar in Geometry
- MAT 1314H Introduction to Noncommutative Geometry
- MAT 1340H Differential Topology
- MAT 1341H Differentiable Manifolds and Applications
- MAT 1342H Introduction to Differential Geometry
- MAT 1343H Riemannian Manifolds
- MAT 1344H Symplectic Geometry
- MAT 1345H Basic Algebraic Topology
- MAT 1346H Homotopy Theory
- MAT 1347H Topics in Symplectic Geometry and Topology
- MAT 1350H Topics in Algebraic Topology I
- MAT 1351H Topics in Homotopy Theory
- MAT 1352H Topics in Algebraic Topology II
- MAT 1355H Singularity Theory
- MAT 1359H Moduli Spaces of Flat Connections
- MAT 1360H Complex Manifolds
- MAT 1392H Algebra Seminar
MAT 1399H Advanced Point Set Topology
MAT 1403H Model Theory
MAT 1404H Introduction to Model Theory and Set Theory
MAT 1430H Set Theory
MAT 1435H Infinitary Combinatorics
MAT 1436H Large Cardinals, Structure Theory of Ideals and Applications
MAT 1448H Topics in Set Theoretic Topology
MAT 1449H Seminar in Foundations
MAT 1450H Topics in Foundations
MAT 1499H Teaching Large Mathematics Courses (Credit/No Credit)

MAT 1500Y Applied Analysis
MAT 1501H Equations and Variational Calculus
MAT 1502H Dynamical Systems and Stochastic Analysis
MAT 1507H Asymptotic and Perturbation Methods
MAT 1508H Techniques of Applied Mathematics
MAT 1520H Wave Propagation
MAT 1525Y Inverse Problems of X-Ray and Radar Imaging
MAT 1638H Fluid Mechanics
MAT 1639Y Topics in Fluid Mechanics
MAT 1700H General Relativity
MAT 1705H Foundations of Classical Mechanics
MAT 1710H Group Theory and Quantum Mechanics
MAT 1711H Topics in Quantum Mechanics
MAT 1722H C* Algebras and Quantum Mechanics
MAT 1723H Foundations of Quantum Mechanics
MAT 1724H Functional Analysis in Quantum Mechanics
MAT 1725Y Scattering Theory
MAT 1739H Topics in Mathematical Physics
MAT 1750H Computational Mathematics
MAT 1751H Topics in Computational Mathematics
MAT 1760H Computer Algebra
MAT 1761H Algorithms in Algebraic Geometry
MAT 1839H Optimization and Control
MAT 1840H Control Theory
MAT 1843H Mathematics of Pattern Recognition
MAT 1844H Nonlinear Dynamical Systems
MAT 1845H Dynamical Systems
MAT 1846H Topics in Dynamical Systems
MAT 1847H Holomorphic Dynamics
MAT 1855H Mathematical Economics
MAT 1856H Mathematical Finance
MAT 1880H Case Studies in Applied Mathematics

MAT 1900Y Readings in Pure Mathematics
MAT 1901H Readings in Pure Mathematics
MAT 1902H Readings in Pure Mathematics
MAT 1950Y Readings in Applied Mathematics
MAT 1951H Readings in Applied Mathematics
MAT 1952H Readings in Applied Mathematics
MAT 2000Y Readings in Theoretical Mathematics
MAT 2001H Readings in Theoretical Mathematics I
MAT 2002H Readings in Theoretical Mathematics II

MSc Project
MAT 4000Y Supervised Research Project

Graduate Faculty

Full Members
Alexakis, Spyridon - BA, PhD
Angel, Omer - PhD
Arkhipov, Sergey - PhD
Arthur, James - BSc, MSc, PhD
Bar-Natan, Dror - BSc, PhD (Coordinator of Graduate Studies)
Bierstone, Edward - BSc, MA, PhD
Binder, Ilia - PhD
Bland, John - BSc, MSc, PhD
Bloom, Thomas - BSc, MA, PhD
Braverman, Mark - BMath, MSc, PhD
Buchweitz, Ragnar- Olaf - ScD, DrHab
Burchard, Almut - MS, PhD
Choi, Man-Duen - BSc, MSc, PhD
Collander, James - BA, MS, PhD
Cook, Stephen - BS, AM, PhD
Del Junco, Andres - BSc, MSc, PhD
Derzko, Nicholas - BSc, PhD
Elliott, George - BSc, MSc, PhD
Friedlander, John - BSc, BS, MA, PhD
Goldstein, Michael - BA, MMath, ScD, PhD
Graham, Ian - BSc, ScD
Ivrii, Victor - MA, PhD, DSc
Jeffrey, Lisa - BA, MA, PhD
Jerrard, Robert - AB, PhD
Kapovitch, Vitali - BS, PhD
Kharshon, Yael - PhD
Khanin, Konstantin - PhD
Khovanskii, Askold - PhD, DSc
Kim, Henry - BSc, PhD
Kudla, Stephen - BA, MA, PhD
Lorimer, Joseph - BSc, MSc, PhD
McCann, Robert - BS, PhD
Meinrenken, Eckhard - PhD
Mendelson, Eric - BSc, MSc, PhD
Milman, Pierre - MA, PhD
Murnaghan, Fiona - BSc, MSc, PhD
Murty, Vijayakumar (Kumar) - BSc, PhD (Chair and Graduate Chair)
Nabutovsky, Alexander - MSc, PhD
Nachman, Adrian - BSc, MA, PhD
Pugh, Mary - BA, MS, PhD
Quastel, Jeremy - BSc, MS, PhD
Repka, Joseph - BSc, PhD
Rosenthal, Jeffrey - PhD
Rosenthal, Peter - BS, MA, PhD
Rotman, Regina - BA, PhD
Seco, Luis - PhD
Selick, Paul - BSc, MSc, PhD
Sigal, Israel-Michael - BA, PhD
Sulem, Catherine - MMath, PhD
Szegedy, Balazs - MS, PhD
Tall, Franklin - AB, PhD
Tanny, Stephen - BSc, PhD
Todorov, Stevo - PhD
Virag, Balint - BA, MA, PhD
Weiss, William - BSc, MSc, PhD
Yampolsky, Michael - DPhil

Members Emeriti
Akcoglu, Mustafa - MSc, PhD
Andrews, David - BSc, MSc, PhD
Barbeau, Edward - BA, MA, PhD
Davis, H Chandler - BS, MA, PhD
Ellers, Erich - DrRerNat, DrRerNat
Fraser, Donald AS - BA, MA, PhD, Fell Royal Society Canada
Greiner, Peter - BSc, MA, PhD
Halperin, J Stephen - BSc, MSc, PhD, Fell Royal Society Canada
Haque, Wahidul - MA, MS, PhD
Jurdjevic, Velimir - BS, MS, PhD
Kupka, Ivan - BSc, PhD, PhD
Masson, David - BSc, MSc, PhD
McCoo, James - BSc, PhD
Murasugi, Kunio - BSc, DSc
Rooney, Paul - BSc, PhD
Sen, Dipak - MSc, DSc
Sharpe, Richard - BSc, MA, PhD
Sherk, F Arthur - BA, MSc, PhD
Smith, Stuart - BSc, PhD
Mechanical and Industrial Engineering

Faculty Affiliation
Applied Science and Engineering

Degree Programs Offered
Mechanical and Industrial Engineering – MASc, MEng, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Biomedical Engineering
   • Mechanical and Industrial Engineering, MASc, PhD
2. Environmental Engineering
   • Mechanical and Industrial Engineering, MASc, MEng, PhD
3. Health Care, Technology, and Place
   • Mechanical and Industrial Engineering, PhD
4. Knowledge Media Design
   • Mechanical and Industrial Engineering, MASc, MEng, PhD
5. Resuscitation Sciences
   • Mechanical and Industrial Engineering, MASc, MEng, PhD

Overview
The Department of Mechanical and Industrial Engineering accepts qualified applicants for study in a wide range of topics, spanning the breadth of mechanical and industrial engineering, including applied mechanics, robotics and manufacturing; biomedical engineering; computer aided design and materials engineering; energy studies, thermodynamics and surface science; environmental engineering; fluid sciences; information systems and enterprise engineering; operations research; and human factors/ergonomics.

The Master of Applied Science degree program provides students with an opportunity to pursue research-intensive advanced studies in a particular field of interest.

The Master of Engineering degree program is designed for students preparing for advanced professional activity; it is not a research-oriented degree.

The Doctor of Philosophy degree program is for students anticipating a career in which they will be performing or directing research at the most advanced level.

Contact and Address
Web: www.mie.utoronto.ca/contact/grad.php
Email: grad.admission@mie.utoronto.ca
Telephone: (416) 978-8823
Fax: (416) 978-3453
Department of Mechanical and Industrial Engineering
University of Toronto
Mechanical Engineering Building
5 King's College Road
Toronto, Ontario M5S 3G8
Canada

Degree Programs
Mechanical and Industrial Engineering

Master of Applied Science
Minimum Admission Requirements
• Applicants must normally have a minimum average of B+, or equivalent, in each of the final two years of an accredited bachelor’s program in engineering or a closely related field.
• Applicants are also assessed on publications, work experience, the school and program to which each previous degree pertains, evidence of exceptional communication skills, references, and the availability of financial resources, space, and suitable supervision.

Program Requirements
• At the beginning of each student’s program, a professor in the department will be identified as the supervisor who will guide the student in the research program and selection of courses.
• For students with an adequate undergraduate background, the program will normally consist of 2.5 full-course equivalents (FCEs) and a thesis.
• MASc students are required to participate in the non-credit seminar course JDE 1000H during their first or second session of registration.
• MASc students, in their first year of study, are required to attend at least 70% of seminars that are part of the MIE Seminar Series. MASc students who complete the requirement will receive credit for SRM 3333Y Master’s Seminar Series.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time
### Master of Engineering

**Minimum Admission Requirements**
- Applicants must normally have a minimum average of B+, or equivalent, in each of the final two years of an accredited bachelor’s program in engineering or a closely related field.
- Applicants are also assessed on publications, work experience, the school and program to which each previous degree pertains, evidence of exceptional communication skills, references, and the availability of financial resources.

**Program Requirements**
- 5.0 full-course equivalents (FCEs) or 3.5 FCEs plus a supervised project. A majority of the courses must be taught by the Department of Mechanical and Industrial Engineering.
- The program may be taken on a full-time or part-time basis.

**Normal Program Length:** 3 sessions full-time; 6 sessions part-time  
**Time Limit:** 3 years full-time; 6 years part-time

### Doctor of Philosophy

**Minimum Admission Requirements**
- Admission to a PhD program is reserved for those who are able to present evidence of superior academic and research ability. Students may be admitted to the PhD program via one of three routes:
  - **Master’s degree.** Appropriate University of Toronto master’s degree or its equivalent from a recognized university with a minimum B+ average.
  - **Direct entry.** Exceptionally strong applicants with a bachelor’s degree and an appropriate background may apply directly to the PhD program. Applicants are advised to consult the Graduate Coordinator before applying to ensure that they possess the appropriate admission requirements for direct entry.
  - **Transfer.** Very strong MASc students may apply to transfer to the PhD program after completing only one year of the MASc program.

**Program Requirements**
- At the beginning of each student’s program, a professor in the department will be identified as the supervisor and will guide the student in the research program and selection of courses.
- Minimum departmental standards in coursework:
  - **students with a master’s degree** normally are required to complete 2.5 full-course equivalents (FCEs) and a thesis.
  - **Direct-entry students** admitted with a bachelor’s degree are required to complete 4.0 FCEs plus a thesis.
  - **Transfer students** must complete a total of 4.0 FCEs plus a thesis.
- Students are required to participate in the non-credit seminar course JDE 1000H during their first or second session of registration.
- PhD students in their first and second years of study are required to attend at least 70% of seminars that are part of the MIE Seminar Series. PhD students who complete the requirement will receive credit for SRD 4444Y Doctoral Seminar Series.
- Each PhD student must pass a qualifying examination, a seminar presentation, additional annual progress meetings, the departmental PhD examination, and the SGS doctoral final oral examination.
- PhD students are required to be on campus full-time unless special permission is obtained for off-campus study.

**Normal Program Length:** 4 years full-time; 5 years direct-entry; 5 years transfer-from-master’s  
**Time Limit:** 6 years full-time; 7 years direct-entry; 7 years transfer-from-master’s

### Course List
- See the departmental website for a schedule of available courses.

#### Fluid Mechanics
- MIE 1201H Advanced Fluid Mechanics I
- MIE 1202H Advanced Fluid Mechanics II
- MIE 1206H Non Newtonian Fluid Mechanics
- MIE 1207H Structure of Turbulent Flows
- MIE 1210H Computational Fluid Mechanics and Heat Transfer
- MIE 1212H Convective Heat Transfer
- MIE 1222H Multiphase Flows
- MIE 1232H Microfluidics and Laboratory-on-a-Chip Systems
- MIE 1233H Flow and Transport through Porous Media
- MIE 1299H Special Topics in Fluid Mechanics

#### Mechanics and Materials
- MIE 517H Fuel Cell System
- MIE 540H Product Design
- MIE 1128H Materials for Clean Energy Technologies
- MIE 1301H Solid Mechanics
- MIE 1303H Fracture Mechanics
- MIE 1706H Manufacturing of Cellular and Microcellular Polymers
- MIE 1713H Analysis and Design of Joints in Manufactured Products
- MIE 1716H Design and Computer-Aided Engineering
- MIE 1720H Creativity in Conceptual Design
- MIE 1732H Tribology
Degree and Diploma Programs by Graduate Unit

Mechanics and Structural Engineering
MIE 1740H Smart Materials and Structures
MIE 1741H Multiphysics Materials Modelling
MIE 1804H The Finite Element Method in Mechanical Engineering
MIE 1807H Principles of Measurements

Mechatronics and Dynamics
MIE 506H MEMS Design and Microfabrication
MIE 1001H Dynamics II
MIE 1005H Theory of Vibrations I
MIE 1062H Robot Kinematics and Dynamics
MIE 1064H Control Analysis Methods with Applications to Robotics
MIE 1067H Automation System Design and Integration
MIE 1068H Applied Nonlinear Control
MIE 1070H Intelligent Robots for Society
MIE 1355H Ultrasonic Non-Destructive Testing
MIE 1718H Computer Integrated Manufacturing
MIE 1760H Advanced Mechatronics

Thermal Sciences
MIE 515H Alternative Energy Systems
MIE 516H Combustion and Fuels
MIE 1101H Advanced Classical Thermodynamics
MIE 1107H Statistical Thermodynamics
MIE 1110H Non-equilibrium Thermodynamics
MIE 1111H Conduction Heat Transfer
MIE 1115H Heat Transfer with Phase Change
MIE 1118H Partially Ionized Gases
MIE 1122H Combustion Engine Processes
MIE 1123H Fundamentals of Combustion
MIE 1126H Diffusion-Wave Fields
MIE 1127H Engineering Applications of Waves
MIE 1129H Nuclear Engineering I: Reactor Physics and the Nuclear Fuel Cycle
MIE 1130H Nuclear Engineering II: Thermal and Mechanical Design of Nuclear Power Reactors
MIE 1357H Laser Biomedical Photoacoustics, Biothermophotonics and Imaging
MIE 1801H Engineering Analysis III

Human Factors and Ergonomics
MIE 1402H Experimental Methods in Human Factors Research
MIE 1403H Analytical Methods in Human Factors Research
MIE 1406H Cognitive Work Analysis
MIE 1407H Engineering Psychology and Human Performance
MIE 1409H Human Computer Interface Design for Complex Systems
MIE 1411H Design of Work Places
MIE 1412H Human-Automation Interaction
MIE 1413H Statistical Models in Empirical Research

Information Engineering
MIE 1501H Knowledge Modelling and Management
MIE 1505H Enterprise Modelling
MIE 1510H Formal Techniques in Ontology Engineering
MIE 1512H Research Topics in XML Retrieval

Operations Research
MIE 561H Healthcare Systems
MIE 562H Scheduling
MIE 566H Decision Analysis
MIE 1603H Integer Programming
MIE 1605H Stochastic Processes
MIE 1606H Queuing Theory
MIE 1607H Stochastic Modelling and Optimization
MIE 1609H Multiple Criteria and Multi-Agent Decision Making
MIE 1613H Discrete Event Simulation
MIE 1615H Stochastic Dynamic Programming
MIE 1616H Research Topics in Healthcare Engineering
MIE 1619H Constraint Programming and Local Search
MIE 1620H Linear Programming and Network Flows
MIE 1621H Non-Linear Optimization
MIE 1699H Special Topics in Operations Research
MIE 1721H Reliability
MIE 1722H Supply Chain Management and Logistics
MIE 1723H Engineering Maintenance Management
MIE 1727H Quality Assurance I

APS Engineering Courses
APS 1002H Financial Engineering
APS 1003H Professional Education and Instruction
APS 1005H Operations Research for Engineering Management
APS 1012H Management of Innovation in Engineering
APS 1013H Applying Innovation in Engineering

SCFI MEng Courses
MIE 1750H Innovation Management I
MIE 1751H Innovation Management II
MIE 1752H Innovation Finance and Economics
MIE 1753H Legal Framework for Innovation
MIE 1754H Laser Applications in Manufacturing
MIE 1755H CAE Technologies in Automotive Engineering
MIE 1756H Materials in Automotive Design and Manufacturing
MIE 1757H Electric Motor Technologies in Automotive Engineering

Reading Courses
MIE 2002H Readings in Industrial Engineering I (Credit/No Credit)
MIE 2003H Readings in Industrial Engineering II (Credit/No Credit)
MIE 2004H Readings in Mechanical Engineering I (Credit/No Credit)
MIE 2005H Readings in Mechanical Engineering II (Credit/No Credit)
Degree and Diploma Programs by Graduate Unit

Seminar Courses

SRM 3333Y  MIE Seminar Series for MASc Students
SRD 4444Y  MIE Seminar Series for PhD Students

Thesis/Project

MIE 8888Y  MEng Research Project
RST 9999Y  Research Thesis

Graduate Faculty

Full Members

Aleman, Dionne - BSc, MSc, PhD
Amon, Cristina - BASc, MSc, ScD
Ashgriz, Nasser - BS, ME, DPhil
Balciglu, Ahmet Baris - BS, MS, PhD
Bazylak, Aimy - PhD
Beck, J. Christopher - BSc, MSc, PhD
Ben Amara, Foued - BSc, MSc, MSEE, PhD
Ben Mrad, Ridha - BSc, PhD
Benhabib, Bensiyon - BSc, MSc, PhD
Bussmann, Markus - BASc, MASc, PhD (Coordinator of Graduate Studies)
Carter, Michael - BM, MMath, PhD
Chan, Timothy - BSc, PhD
Chandra, Sanjeev - PhD
Chignell, Mark - BSc, PhD
Cleghorn, William - BASc, MASc, PhD
Consens, Mariano - BEng, MSc, PhD
Donmez, Birsen - BS, MS, PhD
Ethier, C Ross - BSc, MMath, SM, PhD
Fox, Mark - BSc, PhD
Gruning, Michael - BSc, MS, PhD
Guenthner, Axel - DIIPING, DE
Jamieson, Gregory - BS, MASc, PhD
Jardine, Andrew - BSc, MSc, PhD
Kesler, Olivera - BSE, SM, ScD
Kwon, Roy - BA, MS, MSc, PhD
Lee, Chi-Guhn - DPhil
Lin, Frank - PhD
Makis, Viliam - MSc, PhD
Mandelis, Andreas - BSc, MA, MSc, PhD
McCahan, Susan - BS, PhD
Meguid, Shaker - BSc, MSc, PhD
Milgram, Paul - BASc, MSc, PhD
Mills, James - BSc, MASc, PhD
Mostaghimi, Javad - PhD
Naguib, Hani - BSc, ME, PhD, Reg Professional Engineer
Nejat, Goldie - BASc, PhD
Park, Chul - PhD
Shu, Lily - PhD
Simmons, Craig - BSc, MSc, PhD
Sinclair, Anthony - BSc, MSc, PhD
Spelt, Jan - BASc, MASc, ME, PhD
Steinman, David - BASc, MASc, PhD
Sullivan, Pierre - BS, MS, PhD
Sun, Yu - BS, MS, MS, PhD
Thomson, Murray - BSc, PhD
Vicente, Joaquim Jose - BSc, MS, PhD
Wallace, James - BA, BME, MEng, PhD
You, Lidan - BS, MS, PhD
Zu, Jean - BEng, PhD (Chair and Graduate Chair)

Members Emeriti

Abdelmessih, Abd - BME, MS, PhD
Allen, Donald - BSc, BE, MASc, PhD
Baines, William - BSc, MD, PhD
Currie, Iain - BSc, MASc, PhD
Fenten, Robert - DIIPING, PhD
James, David - BSc, MS, MA, PhD
Keffer, James - BASc, MASc, PhD
Kolodny, Harvey - BEng, MBA, PhD
Neumann, A Wilhelm - BA, DrRerNat
Paradi, Joseph - BSc, PhD
Posner, Morton - BASc, PhD
Senders, John - AB
Turksen, Ismail - BSc, MSc, PhD
Van De Vegte, John - MASc, PhD
Venter, Ronald - BSc, MEng, PhD
Ward, Charles - BS, PhD

Associate Members

Acosta, Edgar Joel - BS, MS, PhD
Atalla, Noureeddine - BE, ME, PhD
Borai, Ma - PhD
Chau, Tom - PhD
Croft, Elizabeth - BASc, MASc, PhD
Fels, Deborah - BSc, MHS, PhD
Frances, Daniel - BASc, MASc, PhD, Reg Professional Engineer
Hair, Michael - BSc, PhD
Hollands, Justin - PhD
Hoorfar, Mina - BSc, MASc, PhD
Maev, Roman - PhD
Moles, Michael - BA, MBA, PhD
Moreau, Christian - PhD
Papini, Marcello - BASc, MASc, PhD
Paraschivoiu, Marius - MASc, PhD
Prasad, Eswar - PhD
Rogers, John - BSc, MS, PhD
Smiley, Alison - BASc, MASC, PhD
Sun, Dong - BS, MS, PhD
Zaric, Gregory - BSc, MASc, MS, PhD
Medical Biophysics

Faculty Affiliation
Medicine

Degree Programs Offered
Medical Biophysics – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. **Biomolecular Structure**
   - Medical Biophysics, PhD
2. **Cardiovascular Sciences**
   - Medical Biophysics, MSc, PhD
3. **Developmental Biology**
   - Medical Biophysics, PhD
4. **Genome Biology and Bioinformatics**
   - Medical Biophysics, PhD
5. **Neuroscience**
   - Medical Biophysics, MSc, PhD

Overview
The Department of Medical Biophysics, an interdisciplinary department with three fields—Cellular and Molecular Biology, Molecular and Structural Biology, and Medical Physics—is located primarily at the Ontario Cancer Institute and the Sunnybrook Health Sciences Centre.

The department offers opportunities for research—leading to the **Master of Science** and **Doctor of Philosophy** degrees—in a variety of biological problems; projects which cut across the conventional boundaries of physics, engineering, chemistry, biology, and medicine are encouraged. The department emphasizes basic and applied research related to cancer. Projects include the following areas: tumour biology, radiobiology, membrane function, molecular interactions, gene expression, cell differentiation and growth control, viral and chemical carcinogenesis, cellular and molecular immunology, hemopoiesis, macromolecular structure via x-ray crystallography, NMR spectroscopy and electron microscopy, the physics and engineering of diagnostic imaging and radiation therapy, development of imaging and therapy systems using x-rays, ultrasound, nuclear magnetic resonance, light and electron optics. For detailed information, please visit the departmental website.

Contact and Address
Web: http://medbio.utoronto.ca
Email: medbio@uhnres.utoronto.ca
Telephone: (416) 946-2819 or (416) 946-2973
Fax: (416) 946-2050
Department of Medical Biophysics
Ontario Cancer Institute
University of Toronto
Room 7-413, 610 University Avenue
Toronto, Ontario M5G 2M9
Canada

Degree Programs
Medical Biophysics

Master of Science

Minimum Admission Requirements
- SGS General Regulations.
- Successful applicants with BSc degrees are enrolled in the MSc program; qualified students can reclassify into the PhD degree program during their second year.
- Applicants with diverse backgrounds are encouraged to apply.
- Applicants holding bachelors degrees from non-Canadian universities are required to provide GRE scores (General and Subject) with their application.

Program Requirements
- Students must successfully complete all degree course requirements. Course requirements depend on the subject chosen for study and on the student’s background.
- Successful completion of an oral examination on the thesis topic.

Normal Program Length: 6 sessions (2 years) full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements
- Applicants are admitted via one of two routes
  - Reclassification from the MSc program.
  - Completion of an MSc degree program in biological, physical, chemical, or medical sciences from a recognized Canadian University.
- Admission to the PhD program is highly selective and attainment of minimum admission require-
Program Requirements

- Because of the broad range of topics available for thesis research and because of the different backgrounds of students admitted, each student, in consultation with his or her supervisor, will plan a program of study that provides the appropriate background for the area of investigation.
- All students must complete the required four full-course credits as outlined in the MBP Graduate Student Handbook.
- Students who transfer/reclassify into the doctoral program or who have completed a MSc degree in Medical Biophysics will receive credit for all courses taken during their MSc program in Medical Biophysics. Students who completed their MSc degree in a department other than Medical Biophysics may request one full-course credit for that degree. These students must still complete or be formally exempt from the required courses for the Medical Biophysics MSc degree. Exemption from a required course does not reduce the number of courses required; students must substitute another course equivalent in place of the exempted course.
- All PhD students are expected to participate in MBP 1015Y Biophysics Seminar Course regardless of whether they previously received credit for it or not.
- Except by special arrangements, students are required to be on campus and participating full-time until all program requirements are completed.

Normal Program Length: 4 years full-time; 5 years direct-entry; 5 years transfer-from-master's
Time Limit: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master's

Course List

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBP 1001Y</td>
<td>Advanced Cell Biology (Topics change; consult Course Coordinator about current topics)</td>
</tr>
<tr>
<td>MBP 1007H</td>
<td>Fundamentals in Molecular and Cell Biology I</td>
</tr>
<tr>
<td>MBP 1008H</td>
<td>Fundamentals in Molecular and Cell Biology II</td>
</tr>
<tr>
<td>MBP 1010H</td>
<td>Quantitative Biology—Statistical Methods</td>
</tr>
<tr>
<td>MBP 1011H</td>
<td>Foundations of Bioinformatics (Not currently offered; suggested alternative is JTB 2107H Proteomics and Functional Genomics)</td>
</tr>
<tr>
<td>MBP 1015Y0</td>
<td>Biophysics Seminar</td>
</tr>
<tr>
<td>MBP 1018Y</td>
<td>Oncology</td>
</tr>
<tr>
<td>MBP 1022H</td>
<td>Advanced Cell Biology for Physical Scientists</td>
</tr>
<tr>
<td>MBP 1023H</td>
<td>Clinical Radiation Physics</td>
</tr>
<tr>
<td>MBP 1024Y</td>
<td>Advanced Medical Imaging</td>
</tr>
<tr>
<td>MBP 1026H</td>
<td>Clinical Imaging for Physical Scientists</td>
</tr>
<tr>
<td>MBP 1028H</td>
<td>Optical, Thermal and Radiation Biophysics</td>
</tr>
</tbody>
</table>

Graduate Faculty

Full Members
Ailles, Laurie - PhD
Archer, Michael - MA, MSc, PhD, DSc
Arrowsmith, Cheryl - BSc, PhD
Attisano, Liliana - BSc, PhD
Aubin, Jane - BSc, PhD
Barber, Dwayne - BSc, PhD (Vice-Chair and Graduate Vice-Chair)
Benchimol, Samuel - BSc, PhD
Ben-David, Yacov - BSc, MSc, PhD
Berinstein, Neil - MD
Bjerke, Matthew - BSc, MSc, PhD
Boyd, Norman - MD
Bristow, Robert Glen - MD, PhD
Brock, Kristy - PhD
Bronskill, Michael - BSc, MSc, PhD
Burns, Peter - BSc, BSc, MSc, PhD (Chair and Graduate Chair)
Chakrabarty, Avijit - BSc, MSc, PhD (Coordinator of Graduate Studies: Biology)
Cheung, Peter - BSc, MS, PhD
Chopra, Rajiv - PhD
Cunningham, Charles - BSc, MSc, PhD
Czarnota, Gregory - MD, PhD
Danska, Jayne - AB, PhD
Done, Susan - BA, MA, MBA, BCH, MB, PhD
Dumont, Daniel - BSc
Edwards, Aled - BSc, PhD
Flinus, Jorge - MSc, PhD
Flaherty, John - Phd
Foster, Stuart - BSc, MSc, PhD
Fraser, Paul - BSc, MSc, PhD
Gallie, Brenda - MD
Gariepy, Jean - BSc, PhD
Goertz, David - MSc, PhD
Graham, Simon - BSc, PhD
Guha, Abhijit - BSc, MSc, MD
Hakem, Razqallah - PhD
Harrington, Lea Anne - BSc, MSc, PhD
Hedley, David - MD
Henkelman, Mark - BSc, MSc, PhD
Hill, Richard - BA, PhD
Hogg, David - BSc, MD
Hudson, Thomas J - MD
Hynden, Kellervo - BSc, MS, PhD
Ikura, Mitsuhiko - BSc, PhD
Irwin, Meredith - MD
Iscoe, Norman - MD, PhD
Jaffray, David - BSc, PhD
Julius, Michael - BSc, PhD
Jurisica, Igor - PhD
Kamel-Reid, Suzanne - BA, MA, PhD
Keller, Gordon - BSc, PhD
Kerbel, Robert - BSc, PhD
Khokha, Rama - BSc, MSc, PhD
Degree and Diploma Programs by Graduate Unit

Medical Biophysics

Kislinger, Thomas - PhD
Koch, Christine - BSc, MD, PhD
Kolios, Michael - BSc, MSc, PhD
Letarte, Michelle - BSc, PhD
Lilge, Lothar - DIPPHY, PhD (Coordinator of Graduate Studies: Physics)
Liu, Fei-Fei - MD
Liu, Geoffrey - MSc, MD
Mackowan, Christopher - BSc, MSc, PhD
Mak, Tak - BSc, MSc, PhD
Malkin, David - MD
Manoukian, Armen - BSc, PhD
Marsden, Philip - MD
Martel, Anne - BSc, PhD
McGlade-Dolson, Jane - BSc, PhD
McPherson, John - PhD
Medin, Jeffrey - BSc, PhD
Messner, Hans - MD, PhD
Minden, Mark - PhD
Minkin, Salomon - BSc, MSc, PhD
Mohal, Nadeem - PhD
Moody, Alan - BA, MA, MBBS
Neel, Benjamin - AB, MD, PhD
Ohashi, Pam - BSc, PhD
Pai, Emil - PhD
Paige, Christopher - BSc, PhD
Penn, Linda - BSc, PhD
Pignol, Jean-Phillipe - MD, PhD
Plewes, Donald - BSc, MSc, PhD
Prive, Gil - BSc, PhD
Puri, Mira - BSc, PhD
Rast, Jonathan - MS, PhD
Rose, David - BA
Ross, Bernard - DIPING, PhD
Rottapel, Robert - BA, MD
Rowlands, John - BSc, PhD
Schimmer, Aaron - MD, PhD
Schu, Andre - MD
Sherar, Michael - BA, PhD
Sled, John - BASc, MS, PhD
Spaner, David - PhD
Squire, Jeremy - BSc, MSc, PhD
Stambolic, Vuk - BSc, MSc, PhD
Stanisz, Greg - PhD
Strother, Stephen - BSc, MS, PhD
Tillier, Elisabeth - BSc, MS, PhD
Tritchler, David - BA, MS
Tsao, Ming-Sound - BSc, MD
Van Der Kooy, Derek - BSc, MA, PhD
Vitkin, Alex - BASc, MASC, PhD
Wilson, Brian - BSc, PhD
Wong, Chong Shun - MD
Woodgett, James - BSc, PhD
Wouters, Bradly - MSc, PhD
Wright, Graham - BSc, MSc, PhD
Yaffe, Martin - BSc, MSc, PhD
Zackenhaus, Eldad - PhD
Zheng, Gang - MSc, PhD

Members Emeriti

Axelrad, Arthur - BSc, MD, PhD
Bruce, Robert - BSc, LMCC, MSc, MD, PhD
Cunningham, Alastair - PhD

Hunt, Prof. Emeritus, John - BSc, MSc, PhD
Miller, Richard - BSc, MSc, PhD
Ottensmeyer, Peter - BASc, MA, PhD
Phillips, Robert - BA, MSc, PhD
Rauth, A Michael - BSc, PhD
Till, James - BA, MA, PhD
Whitmore, Gordon - PhD

Associate Members

Caldwell, Curtis - BSc, MSc, PhD
Cheng, Hai-Ling - BSc, MS, PhD
Lech, Jason - BA, PhD
McIntosh, Bradley - PhD
Martin, Lisa - BSc, MSc, DPhil
Muthuswamy, Lakshmi - PhD
Nieman, Brian - PhD
Okada, Hitoshi - MD, PhD
Pang, Giordi - PhD
Reedijk, Michael - BSc, MSc, MD, PhD
Stefanovic, Bojana - BASc, PhD
Trudel, Suzanne - MSc, MD
Vaziri, Homayoun - BSc, PhD
Woo, Minna Nancy - MD
Medical Science

Faculty Affiliation
Medicine

Degree Programs Offered
Bioethics – MHSc
Biomedical Communications – MScBMC
Medical Radiation Science – MHSc
Medical Science – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Aboriginal Health
   • Medical Science, MSc, PhD
2. Addiction Studies
   • Medical Science, MSc, PhD
3. Aging, Palliative and Supportive Care Across the Life Course
   • Medical Science, MSc, PhD
4. Bioethics
   • Medical Science, MSc, PhD
5. Biomedical Engineering
   • Medical Science, MSc, PhD
6. Biomedical Toxicology
   • Medical Science, MSc, PhD
7. Cardiovascular Sciences
   • Medical Science, MSc, PhD
8. Dynamics of Global Change
   • Medical Science, MSc, PhD
9. Environment and Health
   • Medical Science, MSc, PhD
10. Genome Biology and Bioinformatics
    • Medical Science, PhD
11. Health Care, Technology and Place
    • Medical Science, PhD
12. Health Services and Policy Research
    • Medical Science, MSc, PhD
13. Knowledge Media Design
    • Medical Science, MSc, PhD
14. Neuroscience
    • Medical Science, MSc, PhD
15. Resuscitation Sciences
    • Medical Science, MSc, PhD
16. Women’s Health
    • Medical Science, MSc, PhD

Overview
The Master of Health Science in Bioethics is designed for practitioners wishing to augment their knowledge and skills in bioethics. It provides the theoretical, methodological, and applied skills requisite for health care professionals to face the bioethical challenges posed by modern health care. The program is a course-only, professional master’s degree program. Students interested in a research-stream program should consider the Collaborative Program in Bioethics (CPB). The program provides practical experience strongly informed by theory that includes education, research, and clinical components. The curriculum directly reflects the functional needs of clinician-teachers or bioethics case consultants.

The Master of Science in Biomedical Communications is a two-year professional master’s program involving the artist/visual communicator in medical and health education and research. The program offers two fields: Biomedical Media Design and Biomedical Visualization Design.

The Master of Health Science in Medical Radiation Science is designed for expert radiation therapy clinicians who wish to expand their academic competence and contribution and advance their clinical skills. The program is a two-year full-time program and is composed of coursework (required and elective), clinical practica and a master’s research project - all designed to provide foundational radiation medicine content, expand clinical and reasoning skills, and further develop the skills of enquiry, innovation, knowledge translation, and evidence-based practice. Didactic courses will run primarily outside of regular working hours — mornings, evenings and weekends — with the exception of the clinical practica in the final year that require 30 hours of clinical practice per week at an affiliated teaching site.

The Master of Science and Doctor of Philosophy programs in Medical Science are available in a wide range of basic sciences, clinical sciences, and population health research. Under the mentorship of a faculty member, a student receives specialized training and exposure to Toronto’s finest multidisciplinary research.

Students conduct research in one of six fields:
- Biomedical Science
- Clinical Science
- Population Health/Health Services
- Bioethics
- Health Professions Education
- Radiation Oncology

The full-time MSc and PhD programs emphasize hands-on research, rather than coursework. Faculty conduct research in the following areas: cardiovascular sciences, bioethics, neuroscience, membrane biology, respiratory medicine, and psychosomatic medicine. The Institute of Medical Science (IMS) is the graduate
Degree Programs

Bioethics

Master of Health Science

Minimum Admission Requirements

- Normally, an appropriate bachelor's degree and a recognized degree in one of the health care sciences (e.g., MD, BScN, BScOT, BScPT, BSW) or equivalent. Applicants from other disciplines considered on an individual basis.
- The program favours individuals with outstanding academic credentials and demonstrated evidence of scholarly ability and personal maturity.
- Potential that the applicant will provide significant bioethics leadership in his or her home institution or local community upon completion of the MHSc in Bioethics.
- The application must be accompanied by:
  - a current curriculum vitae
  - original university academic transcripts
  - a letter of intent or statement of professional goals
  - three letters of reference
  - a writing sample, in English
- Deadline for receipt of applications is February 1.
  Enrolment is limited and not all applicants meeting the prerequisites will be admitted. Applicants are screened for eligibility; short-listed applicants are interviewed.

Program Requirements

- The program is offered in modular format in 20 two-day Thursday/Friday blocks from September to April, normally over two years; certain international students may complete all coursework in one academic year.
- A major paper of publishable quality on a topic of the student's choice.
- A practicum that will ensure the application of the knowledge and skills gained elsewhere in the two-year program of study.
- Courses as outlined below.

Required Course List

Courses are restricted to students officially enrolled in the MHSc in Bioethics and the Collaborative Program in Bioethics, except where noted. All courses are understood as "or equivalent" in order to accommodate the diverse background education and training of applicants.
First-year courses concentrate on theoretical foundations of health care sciences, philosophical medical ethics, and resource allocation and law and their application in the clinical setting.

Second-year courses focus on applied skills and knowledge concentrating on teaching in a variety of settings to a variety of audiences; managing differences in culture, gender, and religion; the mediation skills with which to work; further instruction in the two primary areas of clinical bioethics and research ethics.

First Year
HAD 5771H Resource Allocation Ethics
MSC 3001Y Foundations Seminar I
MSC 3003Y Empirical Approaches in Bioethics
MSC 3005H Legal Approaches to Bioethics
PHL 2146Y Topics in Bioethics

Second Year
MSC 1051H Research Ethics
MSC 1052H Clinical Bioethics
MSC 3002Y Foundations Seminar II
MSC 3004Y Ethics Committees and Consultations
For international students, MSC 3004Y is not required. Instead, MSC 3010Y International Research Ethics is required and is taken in May.
MSC 3006Y Bioethics Independent Study
MSC 3008Y Practicum

Biomedical Communications

Master of Science in Biomedical Communications

Minimum Admission Requirements
- graduation from a recognized university with an appropriate bachelor’s degree that includes a variety of courses in the arts, sciences, and humanities
- minimum mid-B standing in the final two years of undergraduate study
- high-quality portfolio of visual material; consult the MScBMC website for list of prerequisite courses required for admission

Program Requirements
- 8.5 full-course equivalents (FCEs); students have the option to select either 1.0 elective FCE and a master’s research project and paper or 2.0 elective FCEs and a master’s research project
- in Year two of the graduate program, students enter their chosen field

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Course List
Consult Faculty each session regarding course offerings.

Required Courses
MSC 1001Y Human Anatomy (Including Embryology)
MSC 2001Y Visual Representation of Medical Knowledge
MSC 2002Y Sequential Medical Communication
MSC 2003Y Biomedical Communications Technologies
MSC 2004H Research Methods
MSC 2005H Evolution of Medical Illustration
MSC 2009H Ethics and Professionalism in Biomedical Communications
MSC 2012H Neuroanatomy for Visual Communication
MSC 2013Y Master’s Research Project and Paper
MSC 2018H+ Visual Representation of Processes in Human Pathology

Elective Courses
Students are encouraged to take at least one of their electives in a graduate program other than Biomedical Communications.

MSC 2015H Interpretive Visualization: Cinematic Design and Preproduction
MSC 2016H Visualization Methods
MSC 2017H Visualization Technology
MSC 2006H Advanced Media Design Technologies
MSC 2007H Visual Synthesis of Medical/Scientific Process
MSC 2008H Community-Centred Design Research
MSC 2011H Special Topics in Biomedical Communications

Medical Radiation Sciences

Master of Health Science

Minimum Admission Requirements
- either hold relevant certification in Radiation Therapy or provide evidence for eligibility for such
- have completed a recognized bachelor’s degree in Medical Radiation Sciences or its equivalent
- have obtained a minimum average grade of B+ over the final two years of full-time undergraduate studies
- have performed a minimum of three years (5,000 hours) of professional practice within five years of application
- the application must be accompanied by:
  - three letters from professional referees (academic, professional or specific - see below)
  - a letter of intent
  - updated CV
  - original university academic transcripts
- applicants whose primary language is not English and who graduated from a university where the
language of instruction was not English, must demonstrate facility in the English language through the successful completion of one of the following English language proficiency tests:

- Test of English as a Foreign Language (TOEFL): a minimum score of 580 on the paper-based test and 5 on the Test of Written English (TWE); a minimum of 93 on the Internet-based test and 22 on the writing/speaking sections.
- Michigan English Language Assessment Battery (MELAB): minimum score of 85.
- International English Language Testing System (IELTS): minimum score of 7.0.
- Certificate of Proficiency in English (COPE): minimum score of 76.
- Academic Preparation Course, International ESL Program, School of Graduate Studies: minimum final grade of B in Level 60.

Program Requirements

1. 8.0 full-course equivalents, including required coursework (4.0 FCEs), elective coursework (1.0 FCE), a major research paper (1.0 FCE), and practica (2.0 FCEs)
2. electives must be field-related courses, as approved by the Program Director

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Course List

MSC1500H Advanced Radiotherapy and Medical Physics
MSC 1501H Frontiers in Radiation Medicine Research
MSC 1502H Translational Radiobiology Applied to Radiation Science
MSC 1503H Clinical Reasoning and Decision Making in Radiotherapy Part I
MSC 1504H Clinical Reasoning and Decision Making in Radiotherapy Part II
MSC 1505H Clinical Reasoning and Decision Making in Radiotherapy Part III
MSC 1506H Professional and Clinical Leadership
MSC 1507H Clinical Competence and Continuous Learning
MSC 1508H Medical Radiation Sciences Research Development
MSC 1509H Master’s Research Project
MSC 1510Y Clinical Practicum I
MSC 1511Y Clinical Practicum II

Medical Science

Master of Science

Minimum Admission Requirements

- An appropriate BSc or an MD degree from a recognized university and academic credentials and background preparation appropriate to the field of study. Qualified university graduates with a professional health science degree (e.g. MD, BScN) or an undergraduate arts and science degree of appropriate background who wish to pursue graduate studies in basic or clinical biomedical sciences are encouraged to apply.
- Applicants lacking adequate background in biological, natural, or social sciences may be required to take undergraduate or graduate courses considered necessary to provide a proper basis for their research.
- A- average in final year of undergraduate study and an A- cumulative average over three of the four total years of study.
- Applicants whose primary language is not English, and who graduated from a university where the language of instruction was not English, must demonstrate facility in the English language through the successful completion of one of the following English language proficiency tests:
  - Test of English as a Foreign Language (TOEFL): a minimum score of 600 on the paper-based test and 5 on the Test of Written English (TWE); or a minimum score of 93/120 on the Internet-based test and 22/30 on the writing and speaking sections.
  - Michigan English Language Assessment Battery (MELAB): minimum score of 87.
  - International English Language Testing System (IELTS): minimum score of 7.5.
  - Certificate of Proficiency in English (COPE): minimum score of 5.

Program Requirements

1. coursework and research
2. 1.0 graduate full-course equivalent (FCE) in addition to MSC 1010Y0 MSc Student Seminars
3. a research thesis and oral thesis examination
4. students are expected to be on campus and participating full-time until all program requirements are completed

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time
Doctor of Philosophy

Minimum Admission Requirements

- Applicants whose primary language is not English, and who graduated from a university where the language of instruction was not English, must demonstrate facility in the English language through the successful completion of one of the following English language proficiency tests:
  - Test of English as a Foreign Language (TOEFL): a minimum score of 600 on the paper-based test and 5 on the Test of Written English (TWE); or a minimum score of 93/120 on the Internet-based test and 22/30 on the writing and speaking sections.
  - Michigan English Language Assessment Battery (MELAB): minimum score of 87.
  - International English Language Testing System (IELTS): minimum score of 7.5.
  - Certificate of Proficiency in English (COPE): minimum score of 5.

- students are accepted via one of three routes:
  - after completing MSc degree (with a MSc thesis) with at least A- standing from a recognized university.
  - transfer from the IMS MSc program. Outstanding students may be considered for reclassification into the PhD program without writing a MSc thesis.
  - direct entry into the PhD Program from an appropriate BSc or an MD degree, without completing a MSc degree.

Program Requirements

- coursework; students may be required to take extra courses in addition to the degree requirements listed below:
  - Students with MSc degree (with a MSc thesis) complete a minimum of 1.0 graduate full-course equivalent (FCE), plus MSC 1011Y0 PhD Student Seminars.
  - Transfer students from the IMS MSc must complete 1.0 graduate FCE with a minimum A- average, plus MSC 1010Y0 MSc Student Seminars. If recommended by the Program Advisory Committee, the student will be evaluated in an oral transfer examination within 18–21 months of initial graduate registration. Successful applicant will enter the PhD program and complete a minimum of 2.0 graduate FCEs (including those already completed in the MSc), plus MSC 1011Y0 PhD Student Seminars. Alternatively, the Exam Committee may decide that the student must complete the MSc degree before being considered for admission to the PhD program.
    - Direct-entry students must pass a qualifying examination within 18–21 months of entry and must complete a minimum of 2.0 graduate FCEs plus MSC 1011Y0 PhD Student Seminars.
  - a research thesis must be submitted and the student must pass an internal examination before proceeding to the doctoral final oral examination conducted by the School of Graduate Studies.
  - at the end of year three (year four for direct-entry PhD students), students must have completed all program requirements exclusive of the thesis research to achieve candidacy.
  - students are expected to be on campus and participating full-time until all program requirements are completed.

Normal Program Length: 4 years full-time; 5 years direct-entry; 5 years transfer-from-master’s

Time Limit: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master’s

Course List

Not all courses are offered each year. Check departmental website for course availability.

JCV 3060H Advanced Topics in Cardiovascular Sciences—Molecular Biology and Heart Signal Transduction
JCV 3061H Advanced Topics in Cardiovascular Sciences—Hormones
JCV 3062H Advanced Research in Cardiovascular Sciences—Heart Function
JCV 3063H Advanced Research in Cardiovascular Sciences—Vascular
JFK 1120H Selected Topics in Drug Development I
JFK 1121H Selected Topics in Drug Development II
JHM 1000H Issue Analysis in Interdisciplinary International Health Research
JPM 1005Y Behavioural Pharmacology
JPM 1008H Psychopharmacology and Women’s Health
MSC 1001Y Human Anatomy (Including Embryology)
MSC 1008H Neuroanatomy
MSC 1009Y Advanced Human Embryology and Teratology
MSC 1010Y0 MSc Student Seminars in Translational Research (Credit/No Credit)
MSC 1011Y0 PhD Student Seminars in Translational Research (Credit/No Credit)
MSC 1040H Physiologic Basis of Disease
MSC 1051H Research Bioethics
MSC 1052H Clinical Bioethics
MSC 1060H Biostatistics for Health Scientists
MSC 1080H Introduction to Biostatistics and Clinical Epidemiology
MSC 1081H Studies in Schizophrenia
MSC 1082H Seminars in Psychosomatic Research
Degree and Diploma Programs by Graduate Unit

MSC 1084H  Glomerular Based Diseases–Bench to Bedside
MSC 1085H  Molecular Approaches to Mental Health and Addictions
MSC 1086H  Integrative Perspectives in Consciousness and Self-Awareness
MSC 1090H  Introduction to Clinical Biostatistics
MSC 1500H  Advanced Radiotherapy and Medical Physics
MSC 1501H  Frontiers in Radiation Medicine Research
MSC 1502H  Translational Radiobiology Applied to Radiation Science
MSC 1503H  Clinical Reasoning and Decision Making in Radiotherapy I
MSC 1504H  Clinical Reasoning and Decision Making in Radiotherapy II
MSC 1505H  Clinical Reasoning and Decision Making in Radiotherapy III
MSC 1506H  Professional and Clinical Leadership
MSC 1507H  Clinical Competence and Continuous Learning
MSC 1508H  Medical Radiation Sciences Research Development
MSC 1509H  Master’s Research Project (0.5)
MSC 1510Y  Clinical Practicum 1
MSC 1511Y  Clinical Practicum 2
MSC 2010Y  Molecular Medicine in Human Genetic Disease
MSC 2020H  Diagnostic and Therapeutic Strategies in Genomic Medicine
MSC 4100H  Cell Mechanics: Structure, Function, and Disorder
MSC 5100H  Evolutionary Medicine: The Sociobiology of Sickness and Healing
MSC 6000H  Special Topics Reading Course
MSC 7000Y  Regenerative Medicine
MSC 8000Y  Transdisciplinary Studies in Infectious Disease (using Hepatitis C as a Model)

Graduate Faculty

Full Members

Abel, Sharon - BA, MA, PhD
Acker, Sandra - BA, MA, PhD
Agar, Anne - BSc, MSc, PhD
Alain, Claude - BA, MA, PhD
Allard, Johane - MD
Alman, Benjamin - BSc, MD
Attisano, Liliana - BSc, PhD
Aubin, Jane - BSc, PhD
Awad, George - MD
Backx, Peter - DrMedVet, PhD, PhD
Bagby, Michael - PhD
Bagli, Darius - BS, MD
Baker, Andrew - MD, MD
Baker, G. Ross - AB, MA, PhD
Bapat, Bharati - BSc, MSc, PhD
Barbaree, Howard - PhD
Barr, Cathy - BSc, PhD
Baruchel, Sylvain - BS, MD, MD

Bassett, Anne - BSc, MD
Bear, Christine - BSc, MSc, PhD
Belitchman, Joseph - MDCM
Belik, Jacques - MD
Belsham, Denise - PhD
Bendick, Michelle - BSc, PhD
Bhavnani, Bhuag - BSc
Bierman, Arlene - MS, MD
Black, Sandra - BSc, MD
Blanchard, Ray - MA, PhD
Bocking, Alan - MD
Bogoch, Earl - BA, MSc, MD
Bombardier, Claire - MA, MD
Boullianne, Gabrielle - BSc, PhD
Boyell, Katherine Mary - BA, MHCSc, PhD
Boyle, Joseph - BA, PhD
Bradley, T. Douglas - BA, MD
Bremner, Roderick Angus - BSc, PhD
Brill, Julie - PhD
Bristow, Robert Glen - MD, PhD
Brooks, Dina - BSc(PT), MSc, PhD
Broussard, Dianne - PhD
Brunell, John - BSc, PhD
Brunton, James - BSc, MD
Buys, Yvonne Margaret - LMCC, MD
Caldarone, Christopher - BSc, MD
Carlen, Peter - MD
Carnahan, Heather - BPHE, MSc, PhD
Casper, Robert - MD
Cheung, Angela - BA, MD, PhD
Cheyne, Douglass - BSc, MA, PhD
Chiarelli, Anna Maria - BSc, MHCSc, DPhil
Chow, Chung-Wai - MD, PhD
Christensen, Bruce - BA, PhD
Clarke, David - PhD
Cohen, Jamie - BA, MD
Coles, Donald - MSc, MD
Coles, Edward - BSc, MSc, MD
Coles, John - MD
Cordes, Sabine - BS, PhD
Corey, Mary - BSc, PhD
Corey, Paul - BSc, MA, PhD
Croitoru, Ken - MDCM
Cusimano, Michael - MHCPE, MD, PhD
Daar, Abdallah - MD
Daneman, Denis - BSc, MBChB, MBChB
Danska, Jayne - AB, PhD
Daskalakis, Zafiris Jeffrey - MD
Davis, Alleen - BSc(PT), MSc, PhD
Davis, Karen - BSc, MSc, PhD
Dawson, Laura - MD
de Veber, Gabriel - MD
Deber, Raisa - BS, MS, PhD
Dennis, Maureen - BA, MA, PhD
Detsky, Allan - BS, MD, PhD
Devins, Gerald - PhD
Donnelly, Sandra - BSc, MSc, MDCM
Dorian, Paul - MSc, MDCM

www.sgs.utoronto.ca/calendar/2011-12  Medical Science  303
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>Division</th>
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</thead>
<tbody>
<tr>
<td>Downey, Gregory</td>
<td>BSc, MD</td>
<td>Medical Science</td>
</tr>
<tr>
<td>Drake, James</td>
<td>BSE, MSc, MBChB</td>
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<tr>
<td>Dror, Yigal</td>
<td>MD</td>
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<td>Drucker, Daniel</td>
<td>MD</td>
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<tr>
<td>Dubrowski, Adam</td>
<td>BSc, MSc, PhD</td>
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<td>Duchen, Suzanne</td>
<td>MBChB</td>
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<td>Dunn, James</td>
<td>AB, AM, PhD</td>
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<td>Einstein, Gillian</td>
<td>AB, PhD</td>
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<td>Etchells, Edward</td>
<td>MSc, MD</td>
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<td>Eubanks, James</td>
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<td>Ezzat, Shereen</td>
<td>MD</td>
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<td>Fantus, George</td>
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<td>Fehlings, Michael</td>
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<td>Fernie, Geoffrey</td>
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<td>Fleming, Alison</td>
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<td>Fleshner, Neil</td>
<td>MPH, LRCP, MD</td>
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<td>Flint, Alastair</td>
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<td>Floras, John</td>
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<td>Ganguli, Rohan</td>
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<td>Giacca, Adria</td>
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<td>Hu, Jim</td>
<td>BSc, PhD</td>
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<tr>
<td>Hudson, Christopher</td>
<td>BSc, PhD</td>
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<tr>
<td>Husain, Mansoor</td>
<td>MB, MD</td>
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<tr>
<td>Hutchison, William</td>
<td>BSc, MSc, PhD</td>
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<td>Hwang, Paul Als</td>
<td>BSc, MSc, MD</td>
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<td>Inman, Robert</td>
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<td>Irwin, Meredith</td>
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<td>Jadad, Alejandro</td>
<td>MD, DPhil</td>
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<td>Jaffray, David</td>
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<tr>
<td>Jarvi, Keith</td>
<td>MD</td>
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<tr>
<td>Jenkins, David Ja</td>
<td>BA, MA, MD, MB, BS, PhD</td>
<td>Canada</td>
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<td>Jeschke, Marc</td>
<td>DrMed, PhD</td>
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<td>Jewett, Michael</td>
<td>LMCC, MD</td>
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<td>Jha, Prabhat</td>
<td>DrMed, MD, PhD</td>
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<td>Jin, Tianru</td>
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<tr>
<td>Jones, Nicola</td>
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<tr>
<td>Kain, Kevin</td>
<td>MD</td>
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<tr>
<td>Kaplan, Allan</td>
<td>AA, BA, MSc, MD</td>
<td>(Director)</td>
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<tr>
<td>Kaplan, David</td>
<td>BA, PhD</td>
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<tr>
<td>Kapur, Shitij</td>
<td>DPSYCH, MBBS, PhD</td>
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<td>Kapus, Andras</td>
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<td>Katz, Joel</td>
<td>PhD</td>
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<td>Kaul, Rupert</td>
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<tr>
<td>Kavanagh, Brian</td>
<td>BSc, BSc, MBChB, MBChB</td>
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<td>Keating, Armand</td>
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<td>Kennedy, Sidney</td>
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<td>Keshavjee, Shafique</td>
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<td>Kim, Peter</td>
<td>MDCM, PhD</td>
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<tr>
<td>Kish, Stephen John</td>
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<td>Klip, Amira</td>
<td>ScD</td>
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<td>Klotz, Laurence</td>
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<td>Kucharczyk, Walter</td>
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<td>Kuebler, Wolfgang</td>
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<td>Laupacis, Andreas</td>
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<td>Lavery, James</td>
<td>BA, BS, PhD</td>
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<td>Levitan, Robert</td>
<td>MSc, MDCM</td>
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<td>Levitt, Anthony</td>
<td>MBBS,DGo, MB</td>
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<td>Lewis, Gary</td>
<td>BCh, MBChB</td>
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<tr>
<td>Li, Ren-Ke</td>
<td>MHSc, MSc, MD, PhD</td>
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<td>Lindsay, Thomas</td>
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<td>Links, Paul</td>
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<td>Liu, Fei-Fei</td>
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<td>Liu, Mingyao</td>
<td>MSc, MD</td>
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<td>Liu, Peter</td>
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<td>Logan, Alexander</td>
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<tr>
<td>Lozano, Andres</td>
<td>BSc, LMCC, MD, BSCMED, PhD</td>
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<td>Lu, Wei Yang</td>
<td>MSc, MD, PhD</td>
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<td>Lumsden, Charles</td>
<td>BSc, MSc, PhD</td>
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<td>Lye, Stephen</td>
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<td>MacDonald, Kelly</td>
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<td>MacDonald, Russell</td>
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<td>Mak, Tak</td>
<td>BSc, MSc, PhD</td>
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<tr>
<td>Maki, Brian</td>
<td>BASc, MAsc, PhD, Reg Professional Engineer</td>
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<td>Malkin, David</td>
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<td>Marrett, Loraine</td>
<td>BMath, PhD</td>
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<td>Maraden, Philip</td>
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<td>Marshall, John</td>
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<td>Maunder, Robert</td>
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<tr>
<td>McAndrews, Mary Patricia</td>
<td>BSc, MA, PhD</td>
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<td>McCart, Judith Andrea</td>
<td>MSc, MD</td>
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<tr>
<td>McCrindle, Brian</td>
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</tbody>
</table>
Degree and Diploma Programs by Graduate Unit

Medical Science

McDonald, Lynn - PhD
McIntosh, Anthony Randal - BSc, MSc, PhD
McIsaac, Warren - MSc, MD
McKee, Nancy - MD
McKeeally, Martin - MD, PhD
McLaughlin, Peter - MD
McNamara, Patrick - MB
Messer, Hans - MD, PhD
Meyer, Jeffrey - MD
Meyn, Michael - MD
Mikulis, David - BS, MD
Milgram, Norton - BSc, MSc, PhD
Miller, Freda - BSc, PhD
Miller, Judith - MD
Millson, Margaret - BSc, MHSc, MD
Minassian, Berge - MDCM
Minden, Mark - MD, PhD
Moe, Gordon - MD
Moody, Alan - BA, MA, MBBS
Morrison, Laurie - BSc
Morehead, Cindi Marie - BS, PhD
Mount, Howard - BSc, PhD (Coordinator of Graduate Studies)
Mulans, Benoit - MD
Naglie, I. Gary - BSc, MDCM
Nagy, Andras - PhD
Narod, Steven - BSc, MD
Nathens, Avery - MPH, MD, PhD
O’Campo, Patricia - PhD
Olivieri, Nancy - MD
Olmsedt, Marion - BSc(CD), MA, PhD, PhD
Opas, Michal - MSc, PhD
Orser, Beverley - MD
Osborne, Lucy - PhD
Ostrowski, Mario - MD
Palaniyar, Nades - MSc, PhD
Palmisano, Mark - MD
Pang, Cho - BSc, MSc, PhD
Parker, John - BA, MD
Parker, Thomas - MD
Parkin, Patricia - BSc, MD, MD
Paterson, Andrew - MBChB
Paus, Tomas - PhD
Pawson, Anthony - PhD
Pei, York Po-Chee - MD
Petronis, Arturas - MD
Pignol, Jean-Phillipe - MD, PhD
Pringle, Dorothy - BScN, MS, PhD
Quaggin, Susan Elizabeth - MD
Rand, Margaret - BSc, PhD
Rao, Leticia - BSc, MSc, PhD
Rao, Vivek - LMCC, MD, PhD
Read, Stanley - MSc, MD, PhD
Redelmeier, Donald - MS, MD
Reeves, Scott - BSc, MSc
Regehr, Cheryl - AB, MA, PhD
Regehr, Glenn - BA, PhD
Reid, Denise - BSc(OT), MEd, PhD
Reithmeier, Reinhart - BSc, PhD
Remington, Gary - MD, PhD
Renwick, Rebecca - DipOT, BA, PhD
Reznick, Richard - MEd, MD
Richards, Robin - BA, MD
Roder, John - PhD
Rodin, Gary - BSc, MD
Romans, Sarah - MD
Rooijman, David - BA, MD
Rosenblum, Norman - MD
Ross, Bernard - DIPNG, PhD
Ross, Heather - BSc, MD
Rotin, Daniela - BSc, MSc, PhD
Rotstein, Ori - MSc, MD
Rottapel, Robert - BA, MD
Rourke, Sean - BSc, BA, PhD
Rovet, Joanne - BSc, PhD
Rubenfeld, Gordon - MSc, MD
Rubin, Barry - BSc, LMCC, MDCM, PhD
Rubin, Laurence - MD
Rumens, Anneke - PhD
Sadavoy, Joel - MD
Saint-Cyr, Jean - BA, MA, PhD
Salit, Irving - BSc, MDCH
Salter, Michael - MD, PhD
Sandor, Paul - BAsc, MD
Schachar, Russell James - MD
Schermitzsch, Emil - MD
Scherer, Stephen - PhD
Schimmer, Aaron - MD, PhD
Schloley, James - MD
Schuh, Andre - MD
Seiple, John Wesley - PhD
Shea, Colin - BSc, PhD
Sharpe, James - MD
Sherman, Philip - MD
Shoichet, Molly - PhD
Shojania, Kaveh - BSc, MD
Silver, Ivan - BSc, MD
Silverberg, Mark - MD
Silverman, Earl - MD
Silverman, Frances - PhD
Silverman, Melvin - BSc, MDCH
Siminovitch, Katherine - MD
Singer, Peter - MPH, MD
Slutsky, Arthur - BASc, MASc, MD
Snedal III, Carter - BS, MD, MD
Stanford, William - BA, PhD
Steiner, Meir - MD, PhD
Stevens, Bonnie - BSc, MSN, DPhil
Stewart, Donna - DPSYCH, MD
Stewart, Duncan - MDCM
Strafella, Antonio - MD, PhD
Streiner, David - PhD
Swallow, Carol - BA, MD, PhD
Swenzey, Neil - BSc, MD, MD
Tannock, Rosemary - BSc, MA, PhD
Tanswell, Alan - BS, MBBS, MBBS
Tarlo, Susan - MBBS
Tator, Charles - MA, MD, PhD
Taylor, Ian - MD, MBChB
Taylor, Margaret - BA, MA, PhD
Thorsteinsson, Halla - PhD
Tierney, Mary - BA, MA, PhD
To, Teresa - BA, MA, PhD
Toner, Brenda - BA, MA, PhD
Trachtenberg, John - BSc, MDCM
Trope, Graham - DOMS, MDCM
Tu, Jack Ven - MD, PhD
Degree and Diploma Programs by Graduate Unit

Medical Science

Tymianski, Michael - BA, MD, PhD
Upshur, Ross Edward - BSc, BA, MA, MD
Urbach, David - MSc, MD
Urowitz, Murray - MD
Vaccarino, Franco - BSc, MSc, PhD
Van Der Kooy, Derek - BSc, MA, PhD
Vasdev, Neil - PhD
Verhoeff, Nicolaas - MD
Verma, Subodh - MSc, MD, PhD
Verrier, Mary (Molly) - DipOT, MHSc
Vitkin, Alex - BASc, MASc, PhD
Waddell, Thomas - MSc, CSPO, LMCC, MD, PhD
Wald, Robert - BSc, MD
Warde, Padraig - MB
Warsh, Jerry - MD
Wedge, John - BSc, MD
Weisel, Richard - BA, MD
Weksberg, Rosanna - MD, PhD
West, Lori - MD
Westall, Carol - BSc, MSc, PhD (Coordinator of Graduate Studies)
Whiteside, Catharine Isobel - BSc, MD, PhD
Wiley, Mike - BSc, MSc, PhD
Williams, Paul - PhD
Wilson, Gregory - MSc, MD
Wittnich, Carin - MSc, DVM
Wong, Chong Shun - MD
Wong, Ming F Agnes - DOMS, MD, PhD
Woo, Minna Nancy - MD
Woodside, Blake - BSc, MSc, MD
Wright, James - BA, LMCC, CSPO, MPH, MD
Wunder, Jay - BA, MSc, LMCC, MD
Yang, Burton - BSc, MSc, PhD
Yau, Terrence - BA, MSc, MDCM, MDCM
Yee, Albert - MSc, LMCC, MD
Ye, Erik - MD
Yeung, Rae - DrMed, MD
Yoshida, Karen - BSc, BPHE, MSc, PhD
Young, Kue - DrMed, PhD
Yucel, Yeni - MD
Zhang, Halbo - MSc, PhD
Zhang, Liang - PhD
Zhen, Mei - PhD
Zipursky, Robert - MD
Zwarenstein, Merrick - MPH, MMED, MBChB

Members Emeriti

Badgley, Robin - BA, MA, PhD
Burnham, Willets - PhD
Diamant, Nicholas - MDCM
Friedland, Judith - BA, MA, PhD
Halperin, Mitchell - BSc, MD
Harvey, William - PhD
Mcculloch, Ernest - MD
Moldofsky, Harvey - MD
Salter, Robert - MDCH
Walfish, Paul - LMCC, MD
Anagnostou, Evdokia - MD
Anastakis, Dimitrios - BSc, MEd, MD
Arnold, Paul - BSc, MD
Atkinson, Leslie - PhD
Atri, Mostafa - MD
Aviv, Richard - MBChB
Backstein, David - MEd, MD
Bandiera, Glen - MD
Barker, Ruth - BSc
Barrera, Maria - MA, PhD
Batt, Jane - MD, PhD
Bayley, Mark - MD
Beattie, William Scott - MD
Bezjak, Andrea - MS, MDCM
Boileau, Isabelle - PhD
Bolderston, Amanda - MSc
Borschel, Gregory - BSc, DrMed
Bowman, Kerry - BA, BSW, MSW, PhD
Brent, Michael - MB
Bril, Vera - BSc, MD
Brock, Kristy - PhD
Carter, Jacqueline - BA, MA, DPhil
Catton, Charles - MD
Chauhan, Vijay - MD
Cheema, Asim - MBBS
Cherney, David - MD, PhD
Cheung, Amy - BA, MSc, MD
Chow, Edward - MBBS
Connelly, Kim - MBBS, PhD
Crawley, Adrian - BA, PhD
Di Prospero, Lisa - MSc
Dick, Alexander - MD
Dos Santos, Claudia - MSc, MD
Dryer, Marc - MSA
Easterbrook, William - MD
Eccles, Cynthia - BSc
Farhat, Walid - BSc, DrMed
Feld, Jordan - MPH, MD
Fortin, Paul - MPH, MD
Furlan, Andrea - MD, PhD
Fyles, Anthony - MD
Gagliardi, Anna - BSc, BE, MSc, MLS, PhD
Gagliese, Lucia - BSc, PhD
Gillies, Carol - MSc
Ginsburg, Shiphra - MEd, MD
Godkin, Dianne - BScN, MN, PhD
Goltz, Herbert - BA, MA, PhD
Graff-Guerrero, Ariel - MD
Grantcharov, Teodor - DrMed, PhD
Grigoriadis, Sophie - MD, PhD
Haider, Masoom - BM, MD
Hamani, Clement - DrMed, PhD
Hare, Gregory - MD, PhD
Harnett, Nicole - BSc
Harrison, Christine - BA, MA, PhD
Hassouna, Magdy - MSc, LMCC, LMCC, MBChB, PhD
Helimann, Jonathan - DCH, MBChB, MBChB
Hitzler, Johann - MD, MD
Hodaie, Mojgan - BSc, MSc, MD
Hodges, Brian - BA, MEd, MD
Hodgson, David - MD
Hofer, Stefan - MD, PhD
Holden, Lori - BSc
Howard, Andrew - BA, CSPO, MSc, LMCC, MD

Associate Members

Advani, Andrew - MBChB, PhD
Al-Hesayen, Abdul - MD
Alibhai, Shabbir - MD
Alter, David - MD

306 Medical Science

2011/2012 School of Graduate Studies Calendar
Degree and Diploma Programs by Graduate Unit

Hutchison, Jamie - MD
Ickowicz, Abel - MD
Jassal, Sarbjit Vanita - MD
Jenkinson, Jodie - BA, MSc
Jones, Jennifer - PhD
Kapral, Moira - MD
Karkouri, Keyvan - MD
Kassner, Andrea - MSc, PhD
Kelly, Valerie - MS
Kertes, Peter - MD
Kingdom, John - DCH, MB, MD
Koeberle, Paulo - BS, PhD
Koritzinsky, Marianne
Kulkarni, Abhaya - BSc, MD, PhD
Lang, Anthony - MD
Lax, Leila - BA, BSc, MEd
Lazar, Neil - BSc, MD
Le Foll, Bernard - DrMed
Lee, Warren - MD, PhD
Leong-Poi, Howard - MD
Librach, Clifford - MD
Licht, Christoph - MD
MacRae, Helen - BSc, MA, MD
Mamdani, Muhammad - DP
Mamo, David - MSc, MS, MD
Martin, Douglas - BSc, PhD
Mazierski, David - BSc
McCormney, Colin - MBChB
McIntyre, Roger - MD
Menard, Cynthia - BSc, MD
Menon, Mahesh - PhD
Mitosevic, Michael - MD
Mizrahi, Romina - MD, PhD
Monks, Ashley - BSc, MA, PhD
Nancekivell, Sharon - BA, BE, MA
Nanthakumar, Kumaraswamy - MD
Newton, Gary Evan - MD
Nyhoff-Young, Joyce - PhD
O’Connor, Paul - MD
O’Sullivan, Brian - MBChB
Palmer, Cathryne - MS
Pang, Elizabeth - PhD
Papsin, Blake Croll - BSc, MSc, MD
Paul, Narinder - BM
Petrella, Teresa - BSc, MD
Rahman, Ranju - ScD
Ray, Joel - MSc, MD
Rector, Neil - MA, MA
Reich, Heather - MDCM, PhD
Retnakaran, Ravi - MSc, MD
Richter, Peggy - MD
Rizoli, Sandro - LRCP, MD, PhD
Rosen, Cheryl - BSc, MD
Rosewall, Tara - MS
Ross, Lori - PhD
Rotzinger, Susan - PhD
Saposnik, Gustavo - MSc, MD
Schuh, Suzanne - MD
Schwartz, Michael - MSc, MD
Secker, Barbara - BA, AM, PhD
Siewerdsen, Jeffrey - BA, MS, PhD
Silver, Frank - MD
Singer, Lianne - MD
Sixel, Katharina - PhD
Stergiopoulos, Vicky - MD
Strauss, John - MD
Strike, Carol - PhD, PhD
Strug, Lisa - BS, BA, SM, PhD
Sun, Hong-Shuo - MSc, DrMed, DPhil
Szaszi, Katalin - MD, PhD
Tackett, Jennifer - BA, MA, PhD
Tandon, Anu - BSc, MD, BSCMED
Tandon, Anurag - BSc, PhD
Toke, Sheldon - BSc, MD
Trudeau, Maureen - BSc, MA, MD
Trudel, Suzanne - MSc, MD
Valliante, Taufik - BSc, MD, PhD
Van Reekum, Robert - BSc, MD
Venkataseswaran, Vasundara - BSc, MPH, MSc, PhD
Von Harsdorf, Rudiger - MD
Wales, Paul - BSc, MSc, MD
Wall, Shelley - PhD
Wang, Jun-Feng - PhD
Wang, Qinghua - DSc
Webster, Fiona - BA, MA, PhD
Wen, Xiao-Yan - PhD
Wiljer, David - PhD
Wilson-Pauwel, Linda - ATD, BSc, MEd, EdD
Witterick, Ian - DrMed
Wong, Rebecca - MBChB
Woolridge, Nicholas - BFA, BSc, BFA, MSc
Yousef, George - MSc, MD, PhD
Zadeh, Gelareh - BSc, DrMed, BSCMED, DPhil
Faculty Affiliation
Arts and Science

Degree Programs Offered
Medieval Studies – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Ancient and Medieval Philosophy
   • Medieval Studies, PhD
2. Book History and Print Culture
   • Medieval Studies, MA, PhD
3. Editing Medieval Texts
   • Medieval Studies, PhD
4. Jewish Studies
   • Medieval Studies, MA, PhD
5. Sexual Diversity Studies
   • Medieval Studies, MA, PhD
6. Women and Gender Studies
   • Medieval Studies, MA, PhD

Overview
The Centre for Medieval Studies provides interdisciplinary programs in the medieval period. Students are expected to cross the limits of traditional subjects, and research is especially encouraged in often-neglected boundary areas between traditional departments.

The centre offers its students training in basic skills and tools in order to read the materials remaining from the medieval past and to explore them with learning and imagination. All students entering the centre are asked to improve their proficiency in Latin before registration, since there are Medieval Latin requirements for all degrees. Examinations in Medieval Latin are set at the beginning of the fall session and at the end of the spring session. All incoming students must take the Level One Latin examination at the beginning of the fall session for placement purposes.

Contact and Address
Web: http://medieval.utoronto.ca
Email: medieval.studies@utoronto.ca
Telephone: (416) 978-4884
Centre for Medieval Studies
University of Toronto
3rd Floor, 125 Queen’s Park
Toronto, Ontario M5S 2C7
Canada

Degree Programs

Medieval Studies

Master of Arts

Minimum Admission Requirements
• An appropriate bachelor’s degree with at least a B+ standing in previous courses. Coursework in the medieval period must have formed part of the program.
• Applicants for the MA degree, full-time and part-time, must:
  ○ Follow application instructions on the department’s website
  ○ Complete forms in which they state the reasons for undertaking graduate studies in the medieval area and their qualifications for applying to do so.

Program Requirements
• MA students may be full-time or part-time. Full-time students may be admitted to either a one-year or a two-year degree, depending on their previous training in Latin and medieval studies.
• MA students must either achieve a pass of the Level One Medieval Latin examination upon arrival or else attain credit in MST 1000Y in the first year of enrolment in the MA program.
• Students may obtain an MA in Medieval Studies by coursework or by a combination of coursework and thesis.
  ○ In the course-work option, the student must successfully complete 4.0 full-course equivalents (FCEs), unless he or she passes the Level One Latin examination upon arrival, in which case 3.0 FCEs are required. MA students who pass the Level One Latin examination on arrival are required to take only 3.0 FCEs for the MA; however, those interested in eventually proceeding to the PhD are strongly urged to audit MST 1001Y. (Enrolment for credit for MST 1001Y is open only to students enrolled in a doctoral program.) MA students who do not pass the Level One Latin examination on arrival must register for MST 1000Y.
  ○ In the thesis option, in addition to the thesis, 3.0 FCEs are required or else 2.0 FCEs plus a Level One Latin examination pass upon arrival in the program. An MA thesis must be on a subject approved by the Centre for Medieval Studies, and the topic must be submitted to the centre by November 30 of the MA year.
• Course training in Latin is given at three levels. All students are expected to arrive with knowledge equivalent to a first-year university course in Latin language. MST 1000Y Introductory Medieval Latin is the MA-level course. While this course is preparatory to the departmental Level One Latin examination, a pass in the course does not guarantee a pass of the departmental examination at the corresponding level. Advanced seminars are open to those MA students who have achieved a pass of the Level Two Latin examination.

Normal Program Length: 3 sessions full-time 1-year MA; 6 sessions full-time 2-year MA; 6 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

• Applicants must satisfy the Centre for Medieval Studies of their ability to do independent research of high quality. Students may be admitted via one of two routes:
  ○ an appropriate bachelor’s degree from a recognized university with an average grade of at least A- in the applicant’s overall program.
  ○ a master’s degree in medieval studies or a related field from a recognized university with an average grade of at least A- in the applicant’s overall program. Students in the Centre for Medieval Studies’ MA program must apply formally for admission to the PhD program on the same basis as all other applicants.

• All applicants must:
  ○ follow application instructions on the department’s website
  ○ complete forms in which they state the reasons for undertaking graduate studies in the medieval area and their qualifications for applying to do so
  ○ pass the Level One Latin examination before they may register in the PhD program

Program Requirements

• The PhD is offered only on a full-time basis. During the first two years, students must take a minimum of 3.0 FCEs, including 1.0 FCE in one minor subject. In view of the centre’s interdepartmental nature, courses in medieval philosophy, history, music, English, and so on, that are related to the general area of the major field may be counted as minors, as long as they do not directly constitute part of the major field proposal. MST 1001Y may not be counted as a minor subject or included in the 3.0 FCEs minimum for the degree, but it must be taken in addition to the 3.0 FCEs minimum by all those who do not pass the Level Two Latin examination upon arrival in the program.

• Course training in Latin is given at two levels. MST 1001Y Intermediate Medieval Latin is the PhD-level course. While this course is preparatory to the departmental Level Two Latin examination, a pass in the course does not guarantee a pass of the departmental examination at the corresponding level. Advanced seminars are open to those with either prior credit in MST 1001Y or else a pass of the Level Two Latin examination. These seminars thus serve both advanced students of medieval Latin as well as those who have passed MST 1001Y but require further training in order to achieve the Level Two Latin examination pass.

• Level Two Latin examination and the centre’s examinations in the French and German languages. No other language may be substituted for either of these.

• When students have qualified in these three languages, they may proceed to the major field examination whose purpose is to demonstrate both the student’s scholarly expertise in the particular area of the doctoral dissertation and a broader academic competence.

• Students should seek out a provisional supervisor by the beginning of the second year and contact two other academic advisors as early as possible, no later than the end of the second year.

• As soon as possible thereafter, students should prepare a major field proposal. The proposal must be signed by all three of the student’s advisors and submitted to the PhD Secretary for approval at least two months prior to the major field examination.

• The major field examination ordinarily must be passed before the student registers for the fourth year of the program.

• The outline of the student’s proposed doctoral dissertation should be worked out by the student in close consultation with the supervisor and the advisory committee. The complete PhD dissertation prospectus should be prepared according to the Centre of Medieval Studies’ guidelines. The candidate will be required to defend the dissertation at the doctoral final oral examination.

• It is possible to complete a PhD in Medieval Studies in four years, but some students, depending on their background preparation, find that it takes longer than four years. Students intending to work in an area of medieval studies that requires the acquisition of one or more extra languages may find that it is not possible to complete a doctorate within four years.

Normal Program Length: 4 years full-time; 5 years direct-entry

Time Limit: 6 years full-time; 7 years direct-entry
Course List

Not all courses are offered every year. Please consult the centre's website which lists the courses the Centre for Medieval Studies will offer this year as well as those offered by associated departments. A graduate course is understood to require at least two hours per week of class meeting and such research hours as may be required.

Courses marked (PR) have prerequisites; further information may be obtained from the centre's website.

Art
FAH 1120H Problems in Patronage
FAH 1121H Twelfth-Century Renaissance?
FAH 1123H The Art of the Medieval Book
FAH 1124H Byzantine Church Decoration
FAH 1125H Medieval Pilgrimage Art and Architecture
FAH 1126H Exceptional Cities of the Middle Ages
FAH 1127H Early Medieval Art
FAH 1128H Byzantine Art and the West
FAH 1130Y The Classical Tradition in Western Medieval Art
FAH 1131H Profane Medieval Art
FAH 1134H Communal Painting and Propaganda in Italy During the Thirteenth and Fourteenth Centuries
FAH 1135H Naples in the Later Middle Ages
FAH 1141H Words and Images in Medieval Art
FAH 1142H Multicultural Middle Ages
FAH 1171H Beginning of Modernism: From Images to Pictures
FAH 1200H Crusader Art

Book History and Print Culture
BKS 1000Y Book History and Print Culture
BKS 2000H Advanced Seminar in Book History and Print Culture
BKS 2001H Practicum in Book History and Print Culture

Classics
CLA 5007H Criticism of Latin Poetry
CLA 5017H Latin Legal Texts and the History of Late Roman Institutions

Comparative Literature
COL 5021H Body and Text
COL 5086H Literature, Culture and Contact in Medieval Iberia

East Asian Studies
EAS 1143Y Civilization in Medieval China

English
ENG 1001H Old English I
ENG 1002H Old English II
ENG 1009H Writing the Nation: Pre-Modern Histographies
ENG 1551H The Canterbury Tales
ENG 2485H London Drama 1190–1590

French Language and Literature
FRE 1164H Medieval French Language and Literature

Germanic Languages and Literatures
GER 1200H Middle High German

History
HIS 1201H The Materials of Medieval History (Credit/No Credit)
HIS 1207H Pastoralia: The Medieval History of Pastoral Care
HIS 1208H Writings of Robert Grosseteste
HIS 1209H The Anglo-Saxons
HIS 1210H Gregory of Tours and the Sixth Century
HIS 1213H Medieval Institutes of Perfection (joint graduate/undergraduate)
HIS 1214H The Merovingians
HIS 1215H Social Change in Medieval England, 1154–1279
HIS 1218H The Mediaeval Church (joint graduate/undergraduate)
HIS 1220H Mediaeval Canon Law (joint graduate/undergraduate)
HIS 1221H Topics in Early Modern European Social History
HIS 1222H Ritual in Renaissance and Early Modern Europe
HIS 1223H Humanism and the Renaissance
HIS 1230H The Sexes in the Western World, 1450–1650
HIS 1283H Crusades, Conversion and Colonialization in the Medieval Baltic (joint graduate/undergraduate)
HIS 1293Y Kievan Rus'

History and Philosophy of Science and Technology
HPS 1215H Medieval Technology and Society
HPS 1217H Technology and War: 1090–1918
HPS 5007H Fundamentals of the History of Technology I

Italian Studies
ITA 1025H Old Italian
ITA 1029H History of Italian Religious Language
ITA 1165H Introduction to Italian Philology
ITA 1170H Textual Criticism and the Editing of Early Italian Texts
ITA 1200H Dante
ITA 1203H Boccaccio
ITA 1330H Petrarch and Petrarchism
ITA 1540H Renaissance Italian Theatre
ITA 1545H The Sacra Rappresentazione
Degree and Diploma Programs by Graduate Unit

**Medieval Studies**

**Joint Courses**
- JIF 1000H Romance Philology I
- JIF 1001H Romance Philology II
- JMT 1001H Topics in the Ancient Philosophical Commentators (PR)

**Medieval Studies**
- MST 1000Y Introductory Medieval Latin
- MST 1001Y Intermediate Medieval Latin
- MST 1002H Topics in Medieval Latin Literature (PR)
- MST 1013H Pre-Conquest Anglo-Latin Literature (PR)
- MST 1016H Hagiography of the Norman Transition (PR)
- MST 1017H Medieval Exegesis (PR)
- MST 1020H The Medieval Latin Epic (PR)
- MST 1022H Virgil in the Middle Ages (PR)
- MST 1035H Humanistic Latin (PR)
- MST 1101H Codicology (PR)
- MST 1102H Practical Palaeography (PR)
- MST 1104H Latin Palaeography I (PR)
- MST 1105H Latin Palaeography II (PR)
- MST 1107H Latin Textual Criticism (PR)
- MST 1110H Diplomatics and Diplomatic Editing (PR)
- MST 1111H Sources and Materials for Editing Medieval Texts (PR)
- MST 1113H Vernacular Text-Editing: A Collaborative Project
- MST 1115H English Palaeography (PR)
- MST 1121H Literacy in Late Antiquity (c. 284–632)
- MST 1371H Old English Philology: Grammar (PR)
- MST 1372H The Exeter Book of Old English Verse (PR)
- MST 1392H Editing and Appreciating Wulfstan’s Prose (PR)
- MST 1425H Medieval Magic: Predicting the Future and Influencing Events (PR)
- MST 2001H Old Norse
- MST 2015H Studies in Old Norse Texts (PR)
- MST 2037H The Sources of Norse Myths (PR)
- MST 2038H Medieval Irish Poetry 500–1600 (PR)
- MST 2039H Textual Studies in Medieval Irish Poetry (PR)
- MST 2041H Introduction to Early Irish Law (PR)
- MST 2048H Music in Medieval Life
- MST 2050Y Middle Welsh
- MST 2055Y Studies in Middle Welsh Texts (PR)
- MST 3021H Boethius (PR)

- MST 3022H Consolation Through the Ages: Later Medieval Approaches to Boethius’s Consolation of Philosophy (PR)
- MST 3025H The Medieval Alexander (PR)
- MST 3101H Current Theory and Medieval Texts: An Introduction
- MST 3112H Geography and Identity in Old and Middle English Literature
- MST 3116H Medieval Medicine
- MST 3131H Troubadours and Trouvères
- MST 3140Y Medieval Catalan Language and Literature
- MST 3150H Medieval French Epic (PR)
- MST 3252H Introductory Old Occitan (PR)
- MST 3253H Old Occitan Troubadour Poetry (PR)
- MST 3254H British History in French: Wace, Brut (PR)
- MST 3255H Chrétien de Troyes, Perceval (PR)
- MST 3256H Charlemagne: Facts and Legends
- MST 3257H Old French and Old Occitan Crusade Epics (PR)
- MST 3258H The Roman de la Rose and Medieval Allegory (PR)
- MST 3162H Boccaccio and Chaucer
- MST 3201H Medieval Social History
- MST 3202H Topics in Medieval Economic History
- MST 3203H Marxism and Premodern History
- MST 3205H Violence in Medieval Society
- MST 3206H Medieval Spain (PR)
- MST 3223H Medieval and Early Modern Inquisitions
- MST 3225H Jews and Christians in Medieval and Renaissance Europe
- MST 3230H The Common Law of Medieval Europe
- MST 3236H Communal Florence, 1150–1530
- MST 3237H The Papal Monarchy
- MST 3241H The Carolingians and the Birth of Europe
- MST 3243H Dark Age Italy
- MST 3244H Saints and their Cities in Early Medieval Italy
- MST 3245H Pharmacy from Antiquity to the Early Middle Ages
- MST 3246H Pharmacy from Early Islam to Medieval and Renaissance Europe
- MST 3262H Monastic Identities
- MST 3301H Themes in Medieval Philosophy
- MST 3307H Augustine in Transition (PR)
- MST 3308H The Philosophy of Peter Abelard
- MST 3311H Topics in Medieval Metaphysics (PR)
- MST 3321H Philosophy of Mind in the Middle Ages (PR)
- MST 3322H William of Ockham (PR)
- MST 3326H Individuation and Individuality in Medieval and Early Modern Philosophy
- MST 3327H Free Will and Human Action in Medieval Philosophy
- MST 3346H Medieval Islamic Philosophy
- MST 3501H Introduction to the Medieval Christian Liturgy
- MST 9310YH Directed Reading
- MST 9315YH Directed Reading
Degree and Diploma Programs by Graduate Unit

Music
MUS 1040H Topics in Medieval Music

Near and Middle Eastern Civilizations
NMC 1311Y Post-Biblical Hebrew: Mishnah and Midrashim
NMC 1326Y Topics in Midrashic Literature
NMC 1500Y Archaeology, from Alexander to Muhammad
NMC 2090Y Islamic History to the Fall of Baghdad
NMC 2119H Readings in Mediaeval Arabic Legal Documents
NMC 2221H Medieval Persian Ethical and Advice Literature
NMC 2222H Persian Mystical Poetry
NMC 2225H History of Medieval Iran and Central Asia
NMC 2226H Readings in Medieval Persian Historical and Documentary Sources
NMC 2500H Early Islamic Art and Architecture
NMC 2515Y The Islamic City
NMC 2521H The Taj Mahal and Its Origins: Medieval Islamic Architecture in Iran, Central Asia, and India
NMC 2526H Islamic Painting
NMC 2527H Islamic Decorative Arts
NMC 2540Y Islamic Archaeology

Philosophy
PHL 2020H Augustine
PHL 2030H Aquinas
PHL 2033H Seminar in Aquinas
PHL 2040H Medieval Philosophy
PHL 2041H Seminar in Medieval Philosophy
PHL 2042H Topics in Medieval Philosophy
PHL 2045H Late Medieval Philosophy

Religion
RLG 3232H Sacred Space in the Christian Tradition
RLG 3653Y Jewish Exegetical Traditions in Antiquity

Slavic Languages and Literatures
SLA 1104H Introduction to Old Church Slavonic
SLA 1109H Studies in Old Church Slavonic

Spanish
SPA 2021H The Politics of Print
SPA 2022H Books and Borders

Graduate Faculty

Full Members
Abrey, L Jane - BA, MA, MPH, PhD
Akbari, Suzanne - BA, MA, MPH, PhD
Armstrong, Lawrin - BA, MA, MA, MDiv, PhD
Bartlett, Kenneth - BA, MA, PhD
Black, Deborah - BA, MA, PhD
Blackmore, Josiah - PhD
Bowen, William - BA, BMus, MA, PhD
Carley, James - BA, MA, PhD
Casskey, Jill - AB, MA, MPH, PhD (Coordinator of Graduate Studies)
Cochelin, Isabelle - DipdESup, BA, MA, PhD
Cohen, Adam - PhD
Dewar, Michael - BA, MA, DPhil
Dimnik, Martin - BA, MA, MDiv, DPhil
Dooley, Ann - BA, MA, PhD
Drescher, B Elan - BA, PhD
Eisenbichler, Konrad - BA, MA, PhD
Everett, Nicholas - BA, MA, PhD
Ewan, Elizabeth - BA, PhD
Gervers, Michael - BA, MA, PhD
Gillespie, Alexandra - BA, BSc, PhD
Goering, Joseph - BA, MA, MSL, PhD
Guenther, Sebastian - MA, PhD
Haines, John - BSc, BA, MA, PhD
Hall, Bert - BA, PhD
Healey, Antonette - BA, MA, PhD
Herren, Michael - PhD
Hoffmann, Richard - BA, PhD
Hutchison, Ann - BA, MA, PhD
Inwood, Brad - BA, MA, PhD, Fell Royal Society Canada
Kaczynski, Bernice - BA, MPH, PhD
Keith, Alison - BA, MA, PhD
King, Peter - AB, PhD
Kivimae, Juri - AM, PhD
Krausner, David - AB, PhD
Kullmann, Dorothea - PhD
Lancashire, D Ian - BA, MA, PhD
Magee, John - BA, MA, PhD (Director)
Meyerson, Mark - BA, PhD
Mulchahey, M. Michele - BA, MA, PhD
Murray, Alexander - BA, PhD
Murray, Jacqueline - PhD
Northrup, Linda - BA, MA, PhD
Orchard, Andrew - DPhil, PhD
Percy, Carol - BA, MA, DPhil
Pickavé, Martin - BA, MA, PhD (Associate Director)
Pietrapaolo, Domenico - BSc, MA, PhD
Robins, William - BA, MPH, PhD
Ross, Jill - MA, PhD
Rozemond, Marleen - BA, PhD
Saleh, Walid - BA, MA, PhD
Schallert, Joseph - PhD
Silano, Giulio - BA, LLB, BEd, MA, PhD
Stock, Markus - MA, PhD
Subtelny, Maria - BA, PhD
Sweetman, Robert - BA, MA, PhD
Townsend, David Robert - BA, MA, PhD
Wollesen, Jens - PhD

Members Emeriti
Burke, James - BA, MA, PhD
Davis, Natalie - BA, MA, PhD
Dutka, JoAnna - BA, MA, PhD, Assoc Royal Conserv Tor
Farge, James - BA, MA, PhD
Frank, Roberta - BA, MA, PhD
Goffart, Walter - AB, AM, PhD
Harvey, Elisabeth Ruth - PhD
Hughes, Andrew - MA, DPhil
Degree and Diploma Programs by Graduate Unit

Johnston, Alexandra - PhD
Mayer, Hartwig - PhD, PhD
McConica, James - STB, BA, MA, DPhil, Fell Ryl
McDonough, Christopher - BA, MA, PhD
Merrilees, Brian - PhD, Fell Royal Society Canada
Munro, John - BA, MA, PhD
Reynolds, Roger - AB, JD, PhD
Rigg, Arthur George - BA, MA, DPhil
Sinkewicz, Robert - BA, PhD
Stock, Brian - AB, PhD
Taylor, Robert - PhD

Associate Members
Andrée, U.O. Alexander - BA, PhD
Boyle, Marjorie - AM, PhD
Currie, Gabriela Ilnitchi - MA, PhD
Denoyelle, Corinne - BLitt, DLITT
Evans, Claude - BA, MA, PhD
MacLean, Sarah - BA, MA, PhD
McDougal, David - BA, MA, PhD
McDougall, Ian - BA, MA, PhD
Pierno, Franco - BA, MA, PhD
Thompson, Pauline - BA, MA, PhD
Molecular Genetics

Faculty Affiliation
Medicine

Degree Programs Offered
Genetic Counselling – MSc
Molecular Genetics – MSc, PhD

Collaborative Programs
Degree programs that participate in:
1. Biomolecular Structure
   - Molecular Genetics - PhD
2. Developmental Biology
   - Molecular Genetics - MSc, PhD
3. Genome Biology and Bioinformatics
   - Molecular Genetics - PhD
4. Neuroscience
   - Molecular Genetics, MSc, PhD

Overview
The Department of Molecular Genetics is located in the Medical Sciences Building, the FitzGerald Building, the Best Institute, the Hospital for Sick Children, and the Mount Sinai Hospital.

The Master of Science program in Genetic Counselling is a full-time professional degree program that prepares students with the academic and clinical skills to provide genetic counselling. Graduates may work as part of a health-care team to gather relevant medical and family histories, to guide further investigations, and to communicate probable or established diagnoses, mode of inheritance, natural history, risk of recurrence, and associated options. This program has been accredited by the American Board of Genetic Counselling.

The Master of Science and the Doctor of Philosophy programs in Molecular Genetics offer research training in a broad range of genetic systems from bacteria and viruses to humans. Research projects include DNA repair, recombination and segregation, transcription, RNA splicing and catalysis, regulation of gene expression, signal transduction, interactions of host cells with bacteria and viruses, developmental genetics of simple organisms (worms and fruit flies) as well as complex organisms (mice), molecular neurobiology, molecular immunology, cancer biology and virology, structural biology, and human genetics and gene therapy.

For detailed information on these programs, visit the department’s website.

Contact and Address
Web: www.moleculargenetics.utoronto.ca
Email: graduate.coordinator@utoronto.ca
Telephone: (416) 978-8359
Fax: (416) 978-6885
Department of Molecular Genetics
University of Toronto
Medical Sciences Building
Room 4398, 1 King's College Circle
Toronto, Ontario M5S 1A8
Canada

Degree Programs
Genetic Counselling

Master of Science

Minimum Admission Requirements
- An appropriate bachelor’s degree from a recognized university with standing equivalent to a University of Toronto B+ both cumulatively and in the final year.
- Prerequisite courses in biology, molecular biology/genetics, biochemistry, embryology/developmental biology, statistics, and psychology.
- The development of strong interpersonal skills as evidenced by extracurricular activity is sought in both the application and interview processes.
- Conditional acceptance may be granted to outstanding applicants lacking the above prerequisite courses; in such instances, the courses deemed necessary must be completed with a B+ standing prior to admission.

Program Requirements
- Students must complete the 14 required courses listed below (6.5 full course-equivalents [FCEs] and laboratory and clinical practica) with a minimum B standing. Lectures, meetings, and rounds must be attended at a minimum of 85% of scheduled occurrences.
- There is no thesis requirement, but an independent research project consisting of a limited clinical research study, an extensive literature review from a novel viewpoint, or a new case presentation involving clinical, cytogenetic, and molecular work-up will be completed and presented both orally and in written format suitable for publication.
- Students must complete the 14 required courses listed below (6.5 full course-equivalents [FCEs] and laboratory and clinical practica) with a minimum B standing. Lectures, meetings, and rounds must be attended at a minimum of 85% of scheduled occurrences.
- There is no thesis requirement, but an independent research project consisting of a limited clinical research study, an extensive literature review from a novel viewpoint, or a new case presentation involving clinical, cytogenetic, and molecular work-up will be completed and presented both orally and in written format suitable for publication.
- Students spend a minimum of 21 months over a two-year period in full-time attendance.
- Students are required to organize an intervening summer rotation in a geographic location of their choice.
Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Required Courses
MSC 2010Y Advanced Concepts in Human Genetic Disease
MMG 1120Y Clinical Rotations
MMG 1122Y Issues in Genetic Counselling
MMG 1124Y Principles of Effective Counselling
MMG 1126Y Clinical Issues in Pregnancy and Child Development
MMG 1128Y Risk Calculation and Research Methodology
MMG 1130Y Tutorial in Molecular Genetics
MMG 1132H Laboratory Skills
MMG 1220Y Clinical Rotations II
MMG 1222Y Issues in Genetic Counselling II
MMG 1224Y Advanced Principles of Effective Counselling
MMG 1226Y Concepts in Clinical Genetics
MMG 1228Y Independent Research Project
MMG1230H Cancer Genetic Counselling

Molecular Genetics

Master of Science

Minimum Admission Requirements
- Normally, a BSc or MD degree or equivalent with excellent academic credentials in molecular biology, genetics, microbiology, and/or biochemistry.

Program Requirements
- Successful completion of MMG 1012H\(^{\circ}\) (or equivalent) and MMG 1015Y\(^{\circ}\) (seminar course).
- A thesis on a research project.
- Defence of the thesis at an oral examination.
- Students are required to spend 12 months in full-time attendance.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years

Doctor of Philosophy

Minimum Admission Requirements
- Admission via one of three routes:
  - Admission into the PhD program with a completed MSc degree or equivalent from the University of Toronto or another recognized university.
  - Reclassification to the PhD program during the first or second year in the MSc program.
  - Under exceptional circumstances, outstanding students with a BSc degree, an MD degree, or equivalent, may be accepted directly into the PhD program.
- Attainment of minimum admission standards does not guarantee acceptance into the PhD program.

Program Requirements
- Successful completion of MMG 1012H\(^{\circ}\) (or equivalent) and MMG 1015Y\(^{\circ}\) (seminar course), MMG 1016H\(^{\circ}\) (or equivalent), and MMG 1017H\(^{\circ}\).
- A thesis on a research project.
- Students entering the doctoral program from a master’s program, either through transfer or admission, are required to spend a minimum of two sessions in full-time attendance. Students entering the doctoral program from a bachelor’s program are required to spend a minimum of three sessions in full-time attendance.

Normal Program Length: 4 years full-time; 5 years direct-entry; 5 years transfer-from-master’s
Time Limit: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master’s

Course List

Graduate Faculty

Full Members
Andrews, Brenda Jean - BSc, PhD
Andrulis, Irene - BA, PhD
Aubin, Jane - BSc, PhD
Bader, Gary - BSc, PhD
Blencowe, Benjamin - BSc, PhD
Bognar, Andrew - BSc, PhD
Boone, Charlie - BSc, PhD
Boulianne, Gabrielle - BSc, PhD
Brill, Julie - PhD
Brown, Martha - BSc, MSc, PhD
Brumell, John - BSc, PhD
Chan, Hue Sun - BSc, MA, PhD
Ciruna, Brian - BSc, PhD
Claycomb, Julie - BS, BA, PhD

\(^{\circ}\) Listing (course description) in the Faculty of Arts and Science Calendar, Molecular Genetics and Molecular Biology Program
\(^{\circ}\) Course that may continue over a program. The course is graded when completed.
Degree and Diploma Programs by Graduate Unit

Molecular Genetics

Cochrane, Alan - BSc, PhD
Collins, Richard - BSc, PhD
Cordes, Sabine - BS, PhD
Cowen, Leah - BSc, PhD
Culotti, Joseph - PhD
Davidson, Alan Richard - BSc, PhD
Dennis, James - PhD
Derry, W. Brent - BSc, MSc, PhD
Dick, John - PhD
Dirks, Peter - MD, PhD
Durocher, Daniel - PhD
Edwards, Aled - BSc, PhD
Egan, Sean - PhD
Ellis, James - PhD
Emili, Andrew - DPM
Ensminger, Alexander - BS, PhD
Ernst, Oliver - PhD
Frappier, Lori - PhD
Fraser, Andrew - BSc
Funnell, Barbara - PhD
Gailie, Brenda - MD
Giaever, Guri - BS, PhD, Canada Research Chair
Gingras, Anne-Claude - BSc, PhD
Gray-Owen, Scott - BS, PhD
Greenblatt, Jack - BSc, PhD
Hudson, Thomas J - MD
Hughes, Timothy - BSE, BMus, PhD
Hui, Chi-Chung - PhD
Ingles, C James - BSc, PhD
Joshi-Sukhwal, Sadhna - BSc, MSc, PhD, DSc
Kaplan, David - BA, PhD
Kay, Lewis - PhD
Krause, Henry - BSc, PhD
Lavoie, Brigitte - PhD
Lipshitz, Howard - PhD (Chair and Graduate Chair)
Liu, Jun - PhD
Mclnnes, Roderick - MD, MD
McNeill, Helen - PhD
Meneghini, Marc - BSc, PhD
Meyn, Michael - MD
Miller, Freda - BSc, PhD
Moffat, Jason - BSc, PhD
Moran, Michael - BSc, PhD
Morris, Quaid - BS, PhD
Nagy, Andras - PhD
Navarre, William - BSc, PhD
Nislow, Corey - BA, PhD
Osborne, Lucy - PhD
Pai, Emil - PhD
Parkinson, John - BS, PhD
Pawson, Anthony - PhD
Pearson, Brent - BS, PhD
Pearson, Christopher - PhD
Pelletier, Laurence - BSc, MSc, PhD
Ray, Peter - PhD
Rini, James - BSc, PhD
Roder, John - PhD
Rommens, Johanna - BSc, PhD
Rossant, Janet - PhD
Roth, Frederick - PhD
Roy, Peter John - BSc, PhD (Graduate Coordinator)
Scherer, Stephen - PhD
Scott, Ian - BSc, PhD
Segall, Jacqueline - BSc, PhD
Sicheri, Frank - BSc, PhD
Sidhu, Sachdev - BSc, DPhil
Siminovitch, Katherine - MD
Smibert, Craig - BSc, PhD
Spence, Andrew - BSc, PhD
Stagljar, Igor - BS, PhD
Stein, Lincoln - BA, MD, PhD
Steipe, Boris - MD, PhD
Tailor, Chetan - PhD
Tyers, Michael - PhD
Van Der Kooij, Derek - BSc, MA, PhD
Wilde, Andrew - BSc, PhD
Wodak, Shoshana - LICSCCHEM, PhD
Wright, Jeff - PhD
Zhang, Zhaolei - BS, PhD
Zhen, Mei - PhD

Members Emeriti

Becker, Andrew - MD, PhD
Buchwald, Manuel - PhD
Campbell, James - BSc, PhD
Carver, Jeremy - BA, PhD
Chan, Voon - BSc, MSc, PhD
Gold, Marvin - BA, PhD
Krepinsky, Jiri - MSc, PhD, DDrRerNat
Murai, Toshiaki - MSc, MS, PhD
Penner, John - PhD
Sadowski, Paul - MD, PhD
Siminovitch, Louis - BSc, BSc, PhD
Thompson, Margaret - MD

Associate Members

Armel, Susan - MS
Aronson, Melyssa - BS, MS
Babul-Hirji, Rijana - BSc, MSc
Chitayat, David - MD
Clarke, Joe - MD
Cytynbaum, Cheryl - MSc
Druker, Harriet - MSc
Dupuis, Lucie - MSc
Harrison, Christine - BA, MA, PhD
Kaiser, Amy - BA
Kim, Philip - BS, PhD
Klatt, Regan - BSc, MSc
Koren, Gideon - MD
Lemmens, Trudo - LLM, DCL
Mendoza, Roberto - MD
Okamoto, Kenichi - BS, MA, PhD
Quercia, Nada - BS, MSc
Ryu, William - AB, PhD
Shugar, Andrea - BSc, MS
Shuman, Cheryl - MSc
Steele, Leslie - BSc, MSc
Sutherland, Joanne - MSc
Thomas, Michal - MSc
Trevors, Christopher - BSc, MS
Weksberg, Rosanna - MD, PhD
Winsor, Elizabeth - BSc, MSc, PhD
Yoon, Grace - MD
Faculty Affiliation
Music

Degree Programs Offered
Music – MA, PhD
Fields:
  Musicology
  Ethnomusicology
  Music Education
Music Performance – MMus, DMA
Fields (MMus):
  Collaborative Piano
  Composition
  Conducting
  Instrumental
  Jazz
  Opera
  Piano Pedagogy
  Vocal
  Vocal Pedagogy
Fields (DMA):
  Composition
  Performance

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Book History and Print Culture
   • Music, MA, PhD
2. Editing Medieval Texts
   • Music, PhD
3. South Asian Studies
   • Music, MA, PhD

Overview
A taught graduate degree program at the Faculty of Music was inaugurated in 1954. The Faculty of Music currently offers graduate degrees in five areas of concentration and fosters the institutional alliance of all areas of advanced music study. Graduate degrees are offered at both master’s and doctoral levels in the areas of composition, music education, musicology, ethnomusicology, and performance. Although music theory is not offered as a named degree specialization, students in this field of study are welcome to enrol in our musicology degree programs. Graduates from all areas of our program occupy leading positions in music departments across Canada and around the world.

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Degree Programs
Music

Master of Arts
The MA in Music degree is offered in three fields:
• Musicology
• Ethnomusicology
• Music Education

Field Musicology
Minimum Admission Requirements
• Applicants to the MA in Musicology are accepted under the General Regulations.
• An appropriate bachelor of arts specialist degree or bachelor of music degree from a recognized university, with an average standing equivalent to a University of Toronto mid-B or better over the final two years. Applicants whose undergraduate degrees do not meet this standard may be required to take up to a full year of prerequisite courses.
• Applicants must submit an essay representative of their work in music history.

Program Requirements
The two-year MA program in Musicology requires 6.0 full-course equivalents (FCEs) including:
• Introduction to Music Research I (MUS 1000H) in year one.
• Introduction to Music Research II (MUS 1001H), offered in alternate years.
• Either the Associate Dean, Graduate Education, or the History and Culture Coordinator will advise students on course selection with a view to establishing a balance between their interests and any perceived weaknesses in their background preparation.
• We advocate interdisciplinarity with Ethnomusicology, and while the majority of electives chosen will reflect traditional scholarship.
in Western art music, others may be chosen to provide a broader base that includes non-Western and popular musics. To reinforce the notion of interdisciplinarity, up to 1.0 FCE may be taken from another graduate unit.

- The primary means of evaluating quality are research essays and seminar presentations. The MA Major Paper (MUS 1990H) is optional.
- Students must maintain a minimum average of A in year one of the program in order to progress to year two.
- One language other than English is required. This will ordinarily be German except by petition to the department. We encourage the completion of the language requirement at the earliest possible opportunity.

Normal Program Length: 6 sessions full-time; 8 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Field Ethnomusicology

Minimum Admission Requirements

- Applicants to the MA in Ethnomusicology are accepted under the General Regulations.
- An appropriate bachelor of arts specialist degree or bachelor of music degree from a recognized university, with an average standing equivalent to a University of Toronto mid-B or better over the final two years.
- Applicants whose undergraduate degrees do not meet this standard may be required to take up to a full year of prerequisite courses.
- Applicants must submit an essay representative of their work in music history or ethnomusicology.

Program Requirements

- The two-year MA program in the field of Ethnomusicology requires 6.0 full-course equivalents (FCEs), including:
  - Introduction to Music Research I (MUS 1000H) in year one.
  - Fieldwork Methods and Practicum (MUS 1002H), offered in alternate years.
- Either the Associate Dean, Graduate Education, or the Ethnomusicology Coordinator will advise students on course selection with a view to establishing a balance between their interests and any perceived weaknesses in their background preparation.
- We advocate interdisciplinarity with Musicology, and while the majority of electives reflect socio-musical scholarship of non-Western and popular musics, others provide a broader base that includes traditional scholarship in Western art music. To reinforce the notion of interdisciplinarity, up to 1.0 FCE may be taken from another graduate unit.
- The primary means of evaluating quality are research essays and seminar presentations. The MA Major Paper (MUS 1990H) is optional.
- Students must maintain a minimum average of A in year one of the program in order to progress to year two.
- One language other than English is required: this should be relevant to a student’s musical and scholarly interests. The chosen language must be approved by the department. Students are strongly encouraged to complete the language requirement in year one.

Normal Program Length: 6 sessions full-time; 8 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Field Music Education

Minimum Admission Requirements

- Bachelor of Music degree in Music Education from the University of Toronto with an average standing of mid-B or better over the final two years, or an equivalent program and standing from another recognized university. Applicants whose undergraduate degree does not meet this standard may be required to take appropriate prerequisite courses.
- Applicants will normally have two years of teaching experience, although this requirement may be waived at the discretion of the department.
- An interview with the Music Education faculty must be scheduled whenever possible. With faculty approval, an assigned essay may be substituted for the interview.
- Appropriate letters of reference commenting on professional performance and promise are also required.

Program Requirements

- Students may complete the degree program full-time or part-time.
- Students must complete 4.0 full-course equivalents (FCEs) including:
  - a minimum of 2.5 FCEs in Music Education, including MUS 2111H Research Methods in Music Education and MUS 2151H Philosophy and Music Education
  - Elective courses may be chosen from the MA/PhD/MMus/DMA courses of instruction and/or other graduate courses available in the university, subject to the approval of the department
  - A major essay (MUS 2990Y) may be substituted for 1.0 FCE with the approval of the department
- Pass a comprehensive examination in music education (written and oral).
Normal Program Length: 3 sessions full-time; 6 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy
The PhD in Music degree is offered in three fields:
- Musicology
- Ethnomusicology
- Music Education

Field Musicology

Minimum Admission Requirements
- The PhD in Musicology is a research degree. Applicants must hold a master’s degree with specialization in musicology, ethnomusicology, or theory, and must have an average standing of B+ or better.
- Applicants must submit an essay of approximately 3,000 words which demonstrates their ability to handle a research problem.
- Applicants, whether from the University of Toronto or from elsewhere, may be interviewed by the department.
- Exceptional students may be admitted directly to the doctoral stream with an appropriate bachelor’s degree (direct entry).

Program Requirements
- Students holding a master’s degree in musicology, ethnomusicology, or theory must fulfill the following requirements:
  - A minimum of 3.0 full-course equivalents (FCEs)
  - The PhD Seminar (MUS 1250H) is taken in the first session.
  - Coursework should be completed during year one of study with an average grade of at least A-.
  - Students may be required to take additional courses or acquire other skills to meet the needs of their proposed subjects of study.
- Students must demonstrate advanced reading knowledge of German; however, with departmental permission, another non-English language may be substituted, provided it is required for the approved research. Advisory committees may require competence in additional languages. All remaining course and language requirements, including the field exam, must be completed successfully by the end of year two.

- Students must prepare a thesis under the direction of an advisor and a committee and will defend it at a doctoral final oral examination. The thesis, including bibliography and appendices, should ideally be between 75,000 and 80,000 words in length. The department will not consider a thesis that exceeds 100,000 words.
- Direct-entry PhD: Students holding an appropriate bachelor’s degree must complete the following requirements as a prerequisite to undertaking the requirements listed above for students with master’s degree in hand:
  - 3.0 FCEs at the graduate level must be completed in year one with a minimum average of A-.

Normal Program Length: 4 years full-time; 5 years direct-entry

Time Limit: 6 years full-time; 7 years direct-entry

Field Ethnomusicology

Minimum Admission Requirements
- The PhD in Ethnomusicology is a research degree. Applicants must hold a master’s degree with specialization in ethnomusicology, musicology, or music theory, but may also be in a cognate field such as anthropology or cultural studies. Applicants must have an average standing of B+ or better.
- An essay of approximately 3,000 words which demonstrates their ability to handle a research problem.
- Applicants, whether from the University of Toronto or elsewhere, may be interviewed by the department.
- Exceptional students may be admitted directly to the doctoral stream with an appropriate bachelor’s degree (direct entry).

Program Requirements
- Students holding a master’s degree in musicology, ethnomusicology, or theory must fulfill the following requirements:
  - 3.0 full-course equivalents (FCEs). The department may prescribe additional courses if it is felt they are necessary to develop the knowledge and skills required for a student’s proposed subject of study. By the end of year one, 2.5 FCEs must be completed with at least a grade of A.
  - The PhD Seminar (MUS 1250H) is compulsory and must be taken in the first session. Other courses will be chosen from the departmental list; however, with departmental approval, 0.5 graduate FCE may be taken outside the department.
  - MUS 1997H Research in Ethnomusicology, which lays the groundwork for the major field examination and the dissertation, must be started at the beginning of the second session of year one.
Degree and Diploma Programs by Graduate Unit

Music

one and completed by the end of the first session of year two.

○ Advanced oral and reading knowledge of a language other than English is required; this should be relevant to a student’s musical and scholarly interests. The department may also require competence in additional languages deemed necessary for a proposed area of research. Language requirements must be completed successfully by the end of year two.

○ During year one, students are expected to discuss their interests, expectations, and research objectives with faculty members. An appropriate supervisor of MUS 1997H must then be agreed upon. The supervisor will be primarily responsible for determining the structure and content of MUS 1997H, which will include a research paper.

○ All course requirements must be completed by the end of year two.

○ Students must prepare a thesis and will defend it at a doctoral final oral examination.

Direct-entry PhD: Students holding an appropriate bachelor’s degree must complete the following requirements as a prerequisite to undertaking the requirements listed above for students with master’s degree in hand:

○ An intermediate-level language examination must be taken in year one. All language requirements must be completed by year three.

○ Students must take 3.0 FCEs in year one, exclusive of MUS 1250H and MUS 1997H. An average grade of at least A- must be maintained to continue with the doctorate; otherwise, the student will be required to transfer into the master’s program. Successful students go on to take 3.0 more FCEs in year two, inclusive of MUS 1250H in the first session and MUS 1997H from the beginning of the second session.

○ All course requirements must be completed by the end of year three.

Normal Program Length: 4 years full-time; 5 years direct-entry

Time Limit: 6 years full-time; 7 years direct-entry

Field Music Education

Minimum Admission Requirements

• Applicants must hold the master’s degree in Music Education from this university with an average standing of B+ or better, or an equivalent degree and standing from another recognized university.

• An interview with the Music Education faculty must be scheduled whenever possible.

• An assigned essay may be substituted for the interview with faculty approval.

• Applicants must provide their results on the Miller Analogies Test.

• At the discretion of the faculty, applicants may be required to provide a videotape of their teaching expertise.

• Appropriate letters of reference commenting on the applicant’s teaching experience, music performance ability, and academic ability.

Program Requirements

The PhD program in Music Education may be completed as a full-time program or a flexible-time program.

Full-Time PhD

• 6.0 full-course equivalents (FCEs) including:

○ At least 2.0 FCEs (including MUS 2995Y Music Education Doctoral Research Project) must be taken from the departmental offerings in music education.

○ The balance of the student’s required program must be approved by the department and may include courses from the MA/MMus/PhD/DMA list and/or from another graduate unit.

○ At the department’s discretion, the student may receive credit for up to 3.0 FCEs from an acceptable master’s degree program.

○ Students must be registered full-time, on campus for a minimum of two sessions, in order to be in such geographical proximity as to be able to participate fully in the department’s activities associated with the program.

○ Language requirements, if any, will be established by the student’s advisory committee, based on specific research needs.

○ As early as possible in year two, the student will submit a thesis proposal which must be approved by the end of that year. On approval of the proposal by the Music Education division of the department, a principal advisor and an advisory committee of at least three members (including the advisor as chair) will be appointed. The committee will meet with the student at least two times each academic year.

○ Upon successful completion of the comprehensive examination, the candidate proceeds to complete an oral defence of the thesis proposal, a thesis, and an oral defence of the thesis.

Flexible-Time PhD

• The admission, course, and degree requirements for the flexible-time option are identical to those listed for the full-time PhD program.

• The flexible-time option is offered to practising professionals whose employment or other professional work is related to their research or study interests.

• Applicants to the flexible-time PhD program option must apply specifically to this program to be considered.
Students who are considering the flexible-time PhD should ensure that they have adequate time on campus to attend classes and to fulfil the academic requirements of a PhD program. As governed by University of Toronto regulations, flexible-time students must be registered full-time and pay full-time fees for four years, and may apply to be registered part-time thereafter. The number of courses, major field examination, and thesis requirements will be the same as those required for the full-time PhD. The difference is that students enrolled in the flexible-time PhD will have the flexibility of a part-time course load and will have an overall time limit to completion of eight years.

Normal Program Length: 4 years full-time; 6 years flexible-time
Time Limit: 6 years full-time; 8 years flexible-time

Course List
Final course offerings may vary. Students should consult the departmental handbook.

**MA/PhD in Musicology/Ethnomusicology**
- **MUS 1000H** Introduction to Music Research I
- **MUS 1001H** Introduction to Music Research II
- **MUS 1002H** Fieldwork Methods and Practicum
- **MUS 1055H** Oratorio
- **MUS 1058H** Music and Politics
- **MUS 1061H** Arsenova
- **MUS 1066H** Music and the Racial and Ethnic Imaginations
- **MUS 1067H** Orpheus
- **MUS 1068H** Music and Jewish Identity
- **MUS 1106H** Music in Canada 1500 to 1600
- **MUS 1129H** Music and Gender
- **MUS 1134H** Music, Capital, Markets, and Industries
- **MUS 1140H** Romantic Musings on the Middle Ages
- **MUS 1142H** Sound, Music, and Everyday Life
- **MUS 1202H** Music of the Mid-Eighteenth Century
- **MUS 1204H** Orientatism and Opera: Interdisciplinary Approaches
- **MUS 1205H** Symphonies of Gustav Mahler
- **MUS 1206H** Critical Approaches to the Music of Benjamin Britten
- **MUS 1207H** Music, Space and Place
- **MUS 1208H** Popular Music and Identity
- **MUS 1209H** Musical Life in Bali
- **MUS 1210H** Advanced Research in Indian Music
- **MUS 1211H** Music in Canada
- **MUS 1212H** The Social Poetics of Music
- **MUS 1213H** MA Major Paper
- **MUS 1214H** Research in Ethnomusicology
- **MUS 1215H** Individual Reading and Research
- **MUS 1216H** Research in Musicology
- **MUS 1217H** Seminar in Schenkerian Analysis I
- **MUS 1218H** Brahms: Symphonies and Chamber Music
- **MUS 1219H** Theories of Rhythm and Metre
- **MUS 1220H** Music Performance
- **MUS 1221H** Master of Music
- **MUS 1222H** Continuing and Teaching Choral Music I
- **MUS 1223H** Conducting and Teaching Choral Music II
- **MUS 1224H** Musical Theatre Studies
- **MUS 1225H** Music of the Baroque
- **MUS 1226H** Music and Technoculture
- **MUS 1227H** PhD Seminar
- **MUS 1228H** Critical Approaches to Popular Music
- **MUS 1229H** Indigenities

0 Course that may continue over a program. The course is graded when completed.
Minimum Admission Requirements

- Applicants for the Master of Music (MMus) program must hold a Bachelor of Music degree in the area of specialization from the University of Toronto with an average standing of mid-B or better over the final two years or an equivalent program and standing from another recognized university. Applicants whose undergraduate degree does not meet this standard may be required to take appropriate prerequisite courses.
- Applicants in composition must submit several original compositions, at least one of which shall be with moderately large instrumentation.
- Applicants in Instrumental, Vocal, Opera, Conducting, Jazz, Collaborative Piano, Vocal Pedagogy, and Piano Pedagogy must pass an audition.

Program Requirements

Field Composition
- Minimum of 6.0 full-course equivalents (FCE) taken over two years, including MUS 3100Y; its continuation, MUS 3105Y; and MUS 3990Y.
- Students may be required to take additional courses based on the results of diagnostic tests in musical analysis, counterpoint, and harmony given upon entrance.
- Under the guidance of an advisor, each student will prepare an original composition in large form or an electroacoustic composition of comparable dimensions which will be defended at a final oral examination.

Field Instrumental
- 7.0 full-course equivalents (FCEs) of which 5.0 FCEs must include:
  - MUS 4444Y and MUS 4445Y (applied lessons)
  - 1.0-FCE Seminar in Music Literature (MUS 4200Y), normally taken in year one
  - 1.0 FCE selected from MUS 4600H or MUS 4606H; MUS 4610H; MUS 4615H
  - 1.0 FCE chosen from a specified list approved by the department
- Two recitals. Recitals may include a chamber music component with the approval of the department.

Field Vocal
- 7.0 full-course equivalents (FCEs), of which 5.0 FCEs must include:
  - MUS 4444Y and MUS 4445Y (applied lessons)
  - 1.0-FCE Seminar in Music Literature (MUS 4200Y), normally taken in year one
  - 1.0 FCE selected from MUS 4600H or MUS 4606H; MUS 4610H; MUS 4615H
  - 1.0 FCE chosen from a specified list approved by the department
- Two recitals. Recitals may include a chamber music component with the approval of the department.

Field Opera
- 7.0 full-course equivalents (FCEs) as follows:
  - MUS 4444Y and MUS 4445Y (applied lessons)
  - 1.0-FCE Seminar in Music Literature (MUS 4200Y), taken in year one
  - Operatic Repertory (MUS 4513Y), taken in year two
  - 1.0 FCE chosen from a specified list approved by the department
  - 2.0 FCEs in Operatic Studies (MUS 4900Y and MUS 4901Y)
- Performance in operatic productions will be evaluated by a committee and assigned grades under MUS 4966Y Operatic Roles I and MUS 4988Y Operatic Roles II.

Field Conducting
- 6.0 full-course equivalents (FCEs) including:
  - 1.0-FCE Seminar in Music Literature (MUS 4200Y), normally taken in year one
  - 1.0 FCE selected from MUS 4600H or MUS 4606H; MUS 4610H; MUS 4615H
  - Orchestral conducting majors must also complete MUS 4220H, MUS 4221H, MUS 4222Y, MUS 4223H, and MUS 4700H (choral)
  - Wind ensemble conducting majors must also complete MUS 4226H, MUS 4227H, and MUS 4228Y
  - Choral conducting majors must also complete MUS 4223H, MUS 4224H, MUS 4225Y, MUS 4220H, and MUS 4700H (choral).
- Two public performances.

Field Jazz
- 7.0 full-course equivalents (FCEs) including:
  - MUS 4444Y, MUS 4445Y, MUS 4300Y, normally taken in year one
  - MUS 4606H, MUS 4615H
  - Either MUS 4310Y, MUS 4311Y, or 1.0 FCE chosen from a specified list approved by the department
  - Students must also include in their programs 1.0 FCE selected from one or more of the following areas:
Degree and Diploma Programs by Graduate Unit

Music

- Small Group Jazz Ensemble Performance (MUS 4740H, MUS 4741H, MUS 4742H, MUS 4743H)
- Jazz Orchestra (MUS 4750H, MUS 4751H, MUS 4752H, MUS 4753H) or
- Vocal Jazz Ensemble (MUS 4760H, MUS 4761H, MUS 4762H, MUS 4763H)

- Two recitals; however students may elect to replace one recital with a significant recording project.

Field Collaborative Piano
- 7.0 full-course equivalents (FCEs) including:
  - 1.0 FCE Seminar in Music Literature (MUS 4200Y), normally taken in year one
  - 1.0 FCE selected from MUS 4600H; MUS 4610H; MUS 4615H
  - MUS 4504H Advanced Song Studies for Pianists
  - MUS 4506H Sonata Coaching I
  - MUS 4214H Advanced Repertoire for Singers and Pianists II
  - MUS 4730H Performance Studies I
  - MUS 4502H Collaborative Piano Class
  - Based on the outcome of preliminary consultations with the department, students may be required to take MUS 4500H Advanced Diction Studies.

- Two recitals.

Field Vocal Pedagogy
- 7.0 full-course equivalents (FCEs) as follows:
  - MUS 4444Y and MUS 4445Y (applied lessons)
  - 1.0 FCE Seminar in Music Literature (MUS 4200Y), normally taken in year one
  - 1.0 FCE selected from MUS 4600H, MUS 4610H and MUS 4615H; or MUS 4820Y
  - MUS 2122H, MUS 4240H, MUS 4241H, MUS 4248H
  - 0.5 FCE selected from MUS 4231H, MUS 4213H, and MUS 4730H
  - 0.5 FCE chosen from a list of courses approved by the department

- Two recitals.

Field Piano Pedagogy
- 7.0 full-course equivalents (FCEs) as follows:
  - MUS 4444Y and MUS 4445Y (applied lessons)
  - 1.0 FCE Seminar in Music Literature (MUS 4200Y), normally taken in year one
  - 1.0 FCE selected from MUS 4600H; MUS 4610H; MUS 4615H
  - MUS 4770H; MUS 4771H; MUS 4772H; and MUS 4773H
  - 1.0 FCE chosen from MUS 2122H, MUS 4730H–4733H, MUS 4620Y, or from a list of courses approved by the department

- Two recitals.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Doctor of Musical Arts

The DMA in Music Performance degree is offered in two fields:
- Composition
- Performance

Field Composition

Minimum Admission Requirements
- Applicants for the Doctor of Musical Arts (DMA) in composition must hold the degree of Master of Music in Composition from the University of Toronto, or its equivalent from another recognized university, with an average standing of B+ or better.
- Two or more extended compositions in various media and a recording of at least one of these works must be submitted together with the application and complete academic credentials.

Program Requirements
- Students take a minimum of 5.0 full-course equivalents (FCEs), including MUS 3300Y, MUS 3305Y, and MUS 3999Y (research project, selected in consultation with the advisory committee). Students entering from outside the University of Toronto will be given diagnostic tests in musical analysis, counterpoint, and harmony, the result of which may be additional course requirements.
- Upon completion of coursework, students are required to present a recital of original works (MUS 3888Y) to the satisfaction of the department. In some cases professional quality tapes of performances totaling the equivalent of a full recital may be substituted.
- The thesis for the DMA shall be an extended composition approved by the department, prepared under the supervision of an advisory committee and defended at the doctoral final oral examination.

Normal Program Length: 4 years full-time
Time Limit: 6 years full-time

Field Performance

Minimum Admission Requirements
- Applicants for the Doctor of Musical Arts (DMA) in Performance must hold the degree of Master of Music in Performance from the University of Toronto, or its equivalent from another university, with an average standing of B+ or better.
- Applicants are required to pass an audition.
Degree and Diploma Programs by Graduate Unit

- An essay of approximately 3,000 words which demonstrates the student's ability to handle a research problem.
- Applicants, whether from the University of Toronto or elsewhere, may be interviewed by the department.

**Program Requirements**
- Students must complete a minimum of 5.0 full-course equivalents (FCEs) as follows:
  - MUS 4800H DMA Seminar is taken in the first session
  - MUS 4899H Work on Research in Performance is begun in the second session
  - Advanced Applied Music I and II (MUS 4844Y and MUS 4845Y)
  - Remaining 2.0 FCEs must be graduate seminar courses
- Coursework should be completed by the end of year two with an average grade of at least A-. Exceptions to the time of completion are MUS 4899H Research in Performance, which lays the groundwork for the dissertation research and leads to a major field examination in the middle of year two, and MUS 4845Y Advanced Applied Music II. Students may be required to take additional courses or acquire other skills to meet the needs of their proposed areas of study.
- Three DMA recitals: MUS 4866Y, MUS 4877Y, MUS 4888Y. The format of these recitals will be determined in consultation with the major teacher and the supervisory committee.
- Reading knowledge in one language other than English is required. The required language will be determined by the department. The department may require competence in additional languages. All remaining course and language requirements, including the field exam, must be completed successfully by the end of year two.

**Normal Program Length:** 4 years full-time

**Time Limit:** 6 years full-time

**Course List**

Final course offerings may vary. Students should consult the departmental handbook.

**MusM/DMA in Composition**
- MUS 3100Y MMus Advanced Composition I
- MUS 3101H Seminar in Schenkerian Analysis I
- MUS 3102H Seminar in Schenkerian Analysis II
- MUS 3105Y MMus Advanced Composition II
- MUS 3110H Classical Orchestration
- MUS 3204H Advanced Orchestration
- MUS 3208H The String Quartet in the Twentieth Century
- MUS 3222H Composing for Film
- MUS 3224H Sonata Form
- MUS 3225H Music of Gubaidulina, Coulthard, and Chen
- MUS 3227H Composing for Film 2
- MUS 3229H The Twentieth-Century Symphony
- MUS 3230H The Music of Messiaen, Schnittke, and Part
- MUS 3240H Extended Techniques for the Woodwinds
- MUS 3244H Music Recording
- MUS 3245H The Music of Ligeti and Lutoslawski
- MUS 3247H Form in the Music of Debussy
- MUS 3300Y DMA Advanced Composition I
- MUS 3305Y DMA Advanced Composition II
- MUS 3306H Pedagogy of Music Theory
- MUS 3309H Brahms: Symphonies and Chamber Music
- MUS 3312H The Present State of Music
- MUS 3403H Theory and Analysis of Atonal Music
- MUS 3404H Extended Tonal Techniques in the Twentieth Century
- MUS 3409H Advanced Analysis
- MUS 3410H Advanced Analysis: 1850–1910
- MUS 3412H Theories of Rhythm and Metre
- MUS 3415H Introduction to Operatic Composition
- MUS 3420H Composing for Percussion
- MUS 3512H Research in Composition
- MUS 3800H Electroacoustic Music
- MUS 3801H Advanced Electro-acoustic Composition
- MUS 3888Y0 DMA Recital of Works
- MUS 3990Y MMus Composition Thesis
- MUS 3998H Reading and Research in Composition
- MUS 3999Y0 Research Project (DMA)
- MUS 4615H Analysis and Performance Practices of Twentieth-Century Music

**MusM/DMA in Performance**
- MUS 4200Y Seminar in Music Literature
- MUS 4213H Advanced Repertoire for Singers and Pianists I
- MUS 4214H Advanced Repertoire for Singers and Pianists II
- MUS 4219H Perspectives on the Business of Music Performance
- MUS 4220H Orchestral Conducting I
- MUS 4221H Orchestral Conducting II
- MUS 4222Y Advanced Orchestral Conducting
- MUS 4223H Choral Conducting I
- MUS 4224H Choral Conducting II
- MUS 4225Y Advanced Choral Conducting
- MUS 4226H Wind Ensemble Conducting I
- MUS 4227H Wind Ensemble Conducting II
- MUS 4228Y Advanced Wind Ensemble
- MUS 4231H Advanced Vocal Repertoire Study I
- MUS 4232H Advanced Vocal Repertoire Study II
- MUS 4240H Introduction to Vocal Pedagogy and Vocology
- MUS 4241H Advanced Vocal Pedagogy and Vocology
- MUS 4242Y Advanced Concepts in Singing and Vocology
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<td>MUS 4504H</td>
<td>Advanced Song Studies for Pianists</td>
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<td>MUS 4510H</td>
<td>Opera Performance for Pianists</td>
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<td>Operatic Répétiteur</td>
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<td>MUS 4513H</td>
<td>Operatic Repertory Studies</td>
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<td>Advanced Diction Studies I (French)</td>
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<td>MUS 4521H</td>
<td>Advanced Diction Studies II (German)</td>
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<td>MUS 4600H</td>
<td>Performance Practices Before 1800</td>
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<td>MUS 4606H</td>
<td>Special Topics in Performance Practice</td>
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<td>MUS 4610H</td>
<td>Analysis and Performance: Music of the Eighteenth and Nineteenth Centuries</td>
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<td>Researching Performance / Performing Research</td>
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<td>DMA Recital I</td>
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<td>MUS 4877Y</td>
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<td>MUS 4888Y</td>
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<td>MUS 4899H</td>
<td>Research in Performance</td>
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0 Course that may continue over a program. The course is graded when completed.
Degree and Diploma Programs by Graduate Unit

MUS 4966Y0  Operatic Roles I
MUS 4988Y0  Operatic Roles II
MUS 5700H  Piano Master Class I
MUS 5701H  Piano Master Class II
MUS 5702H  Piano Master Class III
MUS 5703H  Piano Master Class IV
MUS 5704H  Violin Master Class I
MUS 5705H  Violin Master Class II
MUS 5706H  Violin Master Class III
MUS 5707H  Violin Master Class IV
MUS 5710H  Early Music Vocal Ensemble I
MUS 5711H  Early Music Vocal Ensemble II
MUS 5712H  Early Music Vocal Ensemble III
MUS 5713H  Early Music Vocal Ensemble IV
MUS 6666Y0  Recital I
MUS 8888Y0  Recital II

Courses recognized for MusM in Performance and MA graduate credit

Available to MA students only with the permission of the department.

MUS 1015H  Topics in Twentieth-Century Music
MUS 1020H  Topics in Baroque Music
MUS 1025H  Topics in Classical Music
MUS 1030H  Topics in Romantic Music
MUS 1040H  Topics in Medieval Music
MUS 1045H  Topics in Renaissance Music
MUS 1090H  Topics in Ethnomusicology

Graduate Faculty

Full Members
Bartel, Lee - BA, BMus, MEd, PhD
Bowen, William - BA, BMus, MA, PhD
Cain, M. Celia - BA, MA, PhD
Chan, Ka Nin - BASc, BMus, MMus, MusD
Clark, Caryl - BMus, MA, PhD
Dolloff, Lori Anne - MUSB, PhD
Edwards, Darryl - BED, BMus, MMus, DMA
Elliott, Robin - BMus, MA, PhD
Gould, Elizabeth - BM, MA, MusD
Haines, John - BSc, BA, MA, PhD
Hartenberger, J Russell - MB, MM, PhD (Dean)
Hatzis, Christos - MusM, PhD
Horst, Sandra - BMus, MM
Johnston, Gregory - MUSB, MA, PhD
Kippen, James - BA, PhD
Koga, Midori - BMus, AA, MMus, DMA
Kruspe, John - MusBac, Assoc Royal Conserv Tor
Kulesha, Gary - AA, Assoc Royal Conserv Tor, Assoc Royal Conserv Tor
Lee, Sherry - BMus, MMus, PhD
Macdonald, Lorna - BME, MMus
MacKay, Gillian - BMus, MMus, DMA (Associate Dean, Graduate Education)
McClelland, Ryan - BMus, MM, PhD
McLean, Don - BMus, MA, PhD (Graduate Chair)

Members Emeriti
Aide, William - BSc
Beach, David - BA, MusM, PhD
Hughes, Andrew - MA, DPhil
Laufer, Edward - MusBac, MusM, MFA, PhD

Associate Members
Besnard, Christine - BA, MA, PhD
Hennigar, Harcus - BMus, BA

0 Course that may continue over a program. The course is graded when completed.
Near and Middle Eastern Civilizations

Faculty Affiliation
Arts and Science

Degree Programs Offered
Near and Middle Eastern Civilizations – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Diaspora and Transnational Studies
   • Near and Middle Eastern Civilizations, MA, PhD
2. Jewish Studies
   • Near and Middle Eastern Civilizations, MA, PhD
3. Sexual Diversity Studies
   • Near and Middle Eastern Civilizations, MA, PhD
4. Women and Gender Studies
   • Near and Middle Eastern Civilizations, MA, PhD

Overview
The Department of Near and Middle Eastern Civilizations offers graduate programs leading to the Master of Arts and Doctor of Philosophy in two fields:
• Ancient Near Eastern Studies
• Middle Eastern and Islamic Studies

Courses are offered and faculty conduct research in the following areas: Egyptology, including archaeology; Mesopotamia and the Near East, including archaeology and Assyriology; Syro-Palestinian archaeology; Hebrew and Judaic studies, including Biblical and Rabbinic Hebrew, history, and religion; Aramaic and Syriac studies, including language, history, and religion; Arabic studies; Islamic studies; history of the Islamic world and the modern Middle East; Islamic art; Persian studies; and Turkish studies, including Ottoman language and history.

Contact and Address
Web: www.utoronto.ca/nmc
Telephone: (416) 978-3181
Fax: (416) 978-3305
Department of Near and Middle Eastern Civilizations University of Toronto
2nd Floor, 4 Bancroft Avenue
Toronto, Ontario M5S 1C1
Canada

Degree Programs
Near and Middle Eastern Civilizations

Master of Arts
Minimum Admission Requirements
• An appropriate bachelor’s degree in a relevant program from a recognized university with an average of at least B+, or equivalent, in the final year.
• Two letters of reference.
• Statement of academic intent.
• Some programs may require appropriate knowledge of a primary source language, or one or more European languages.
• Students choosing a concentration in Islamic Art and Material Culture must have a reading knowledge of French or German at the time of admission.
• Applicants whose primary language is not English, and who graduated from a university where the language of instruction and examination is not English, are required to meet the School of Graduate Studies English language facility requirements.

Program Requirements
• Depending upon the amount of undergraduate preparation, students may be enrolled in either a two-year or a one-year program.
• Students choosing a concentration in Islamic Art and Material Culture are required to successfully complete at least 6.0 full-course equivalents (FCEs) in Art and Near and Middle Eastern Civilizations (a minimum of 2.0 FCEs in each). This is normally a two-year program.

Normal Program Length: 3 sessions full-time 1-year MA; 6 sessions full-time 2-year MA
Time Limit: 3 years full-time

Doctor of Philosophy
Minimum Admission Requirements
• Admission via one of two routes:
  o MA degree in a relevant program from a recognized university with at least an A- average or equivalent in courses taken for the MA program.
  o Direct entry from a bachelor’s degree for exceptionally qualified applicants, at the discretion of the department.
• Ability to conduct independent research.
• Competence in primary source language(s) relevant to the applicant’s research.
Degree and Diploma Programs by Graduate Unit

- Two letters of reference.
- Statement of academic intent.
- Writing sample of no more than 12 double-spaced pages including footnotes.
- Applicants whose primary language is not English, and who graduated from a university where the language of instruction and examination was not English, are required to successfully complete one of the English tests listed on the department website.

Program Requirements

- Program of study is determined in consultation with the department and includes written and oral general examinations. These examinations should be taken no later than January in the year following the completion of coursework for the PhD program.
- Students are required to demonstrate reading comprehension in two languages of modern scholarship (typically French and German), the first by the end of their first year in residence, and the second by the end of their second year of residence. A language other than French or German may be substituted with approval of the Academic Advisor and the Graduate Coordinator. In some cases, the department may require competence in another language relevant to the student’s program. The choice of language(s) must be approved by the department.
- Students are required to be registered on campus for the period during which coursework requirements are being fulfilled, and in no case for less than two academic years.
- The minimum course requirement will normally be 6.0 graduate full-course equivalents (FCEs). In approved cases, up to 3.0 FCEs may be counted from the U of T MA program or its equivalent, at the discretion of the department.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List

Akkadian Language and Literature

- NMC 1001Y Introduction to Old Babylonian
- NMC 1002Y Selected Standard Babylonian Texts
- NMC 1003Y Akkadian Historical Texts
- NMC 1006Y Akkadian Literary Texts
- NMC 1007Y Akkadian Letters and Business Documents (Early Period)
- NMC 1008Y Akkadian Letters and Business Documents (Late Period)

Ancient Egyptian Language and Literature

- NMC 1201Y Introduction to Middle Egyptian Dialect
- NMC 1202Y Middle Egyptian Texts
- NMC 1203Y Late Egyptian Texts
- NMC 1204Y Cursive Scripts
- NMC 1209H Old Egyptian Texts
- NMC 1210H Ancient Egyptian Historical Texts
- NMC 1213H Ancient Egyptian Religious and Funerary Literature

Arabic Studies

- NMC 2100Y Introductory Standard Arabic
- NMC 2101Y Intermediate Standard Arabic I
- NMC 2102Y Intermediate Standard Arabic II
- NMC 2103Y Advanced Standard Arabic
- NMC 2130Y Topics in Arabic Literature

Aramaic-Syriac Language and Literature

- NMC 1100Y Introduction to Aramaic
- NMC 1101Y Early Syriac Texts
- NMC 1102Y Palestinian Aramaic Texts
- NMC 1104Y Aramaic Epigraphy
- NMC 1105Y Syriac Historical Texts
- NMC 1106Y Syriac Exegetical Texts
- NMC 1110H Palestinian Targum
- NMC 1111Y Babylonian Aramaic

Archaeology

- NMC 1400Y Introduction to the Archaeology of the Near East
- NMC 1406Y Problems in the Archaeology of Bronze Age Syria-Palestine
- NMC 1407Y Problems in the Archaeology of Iron Age Syria-Palestine
- NMC 1408Y Seminar in the Archaeology of Syria-Palestine
- NMC 1409H Archaeology and Material Culture of Ancient Egypt I
- NMC 1410H Archaeology and Material Culture of Ancient Egypt II
- NMC 1411H Near Eastern Ceramics (1)
- NMC 1412H Near Eastern Ceramics (2)
- NMC 1414H Egyptian Artifacts
- NMC 1415H Archaeology in Egyptian Art
- NMC 1416H Egyptian Iconography
- NMC 1417H Architecture of Egypt
- NMC 1418Y Archaeology of Nubia
- NMC 1419Y Art, Archaeology and Culture of Egypt in the Age of the Pyramids
- NMC 1420H Selected Topics in Near Eastern Archaeology
- NMC 1421Y Seminar in Egyptian Archaeology
- NMC 1422Y Polarized-Light Microscopy in Archaeology
- NMC 1423H The Archaeology of Mesopotamia I (8,000–2,000 BC)
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<td>Mesopotamian Material Culture I: Art and Artifacts</td>
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<td>NMC 1426H</td>
<td>Mesopotamian Material Culture II: Architecture</td>
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<td>NMC 1500Y</td>
<td>Archaeology, from Alexander to Muhammad</td>
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<td>NMC 2540Y</td>
<td>Islamic Archaeology</td>
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**Gender-Related Topics in Law and Religion**

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**Hebrew Language and Literature**

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<td>Early Hebrew Epigraphy</td>
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<td>NMC 1306H</td>
<td>Scribes, Manuscripts, and Translations of the Hebrew Bible</td>
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<td>NMC 1309H</td>
<td>Wisdom in Ancient Israel</td>
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<td>NMC 1311Y</td>
<td>Post-Biblical Hebrew: Mishnah and Midrashim</td>
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<td>NMC 1312H</td>
<td>Midrash Before the Rabbis: The Beginnings of Biblical Interpretation</td>
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<td>NMC 1313H</td>
<td>Mishnah and Tosefta</td>
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<td>Law in Ancient Judaism</td>
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<td>NMC 1316H</td>
<td>Modern Hebrew Poetry</td>
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<td>Midrashim: Purity and Cultic Texts</td>
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<td>Midrashim: Legal Texts and Narrative</td>
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<td>Themes in Midrashic Literature</td>
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<td>Intertextuality: Tannaitic and Amoraic Literature</td>
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**History**

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<td>Ancient Mesopotamia II: Assyrians and Babylonians</td>
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<td>Ancient Egyptian Cultural History I</td>
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<td>NMC 2080H</td>
<td>Theory and Method in Middle Eastern Studies</td>
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<td>Anthropology of the Middle East</td>
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<td>NMC 2090Y</td>
<td>Islamic History to the Fall of Baghdad</td>
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<td>NMC 2170H</td>
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<td>Iranian Modernity</td>
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**Islamic Art and Material Culture**

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<td>Early Islamic Art and Architecture</td>
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<td>Persianate Art and Architecture</td>
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<td>The Islamic City</td>
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<td>NMC 2521H</td>
<td>The Taj Mahal and Its Origins</td>
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<td>Painting in Late Medieval and Early Modern Iran and Beyond</td>
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<tr>
<td>NMC 2526H</td>
<td>Text and Image: The Formation of Arabic and Persian Manuscript Illustration</td>
</tr>
<tr>
<td>NMC 2527H</td>
<td>Islamic Decorative Arts</td>
</tr>
<tr>
<td>NMC 2530Y</td>
<td>Selected Problems in Islamic Art and Archaeology</td>
</tr>
<tr>
<td>NMC 2541Y</td>
<td>Contextualizing Medieval Middle Eastern and Islamic Pottery</td>
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**Linguistics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NMC 1651H</td>
<td>Phoenician and Punic Epigraphy</td>
</tr>
<tr>
<td>NMC 1652H</td>
<td>Ugaritic</td>
</tr>
<tr>
<td>NMC 1653H</td>
<td>Issues in Ancient Hebrew Philology</td>
</tr>
<tr>
<td>NMC 1654H</td>
<td>Advanced Ancient Hebrew Grammar</td>
</tr>
<tr>
<td>NMC 1655H</td>
<td>Comparative Semitics</td>
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</table>

**Persian Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NMC 2200Y</td>
<td>Introductory Persian</td>
</tr>
<tr>
<td>NMC 2201Y</td>
<td>Intermediate Persian</td>
</tr>
<tr>
<td>NMC 2220Y</td>
<td>Classical Persian Literature</td>
</tr>
<tr>
<td>NMC 2221H</td>
<td>Medieval Persian Ethical and Advice Literature</td>
</tr>
<tr>
<td>NMC 2222H</td>
<td>Persian Mystical Poetry</td>
</tr>
<tr>
<td>NMC 2223H</td>
<td>The Masnavi of Rumi</td>
</tr>
<tr>
<td>NMC 2224H</td>
<td>Persian Myths, Islamic Legends, and Mystical Allegories</td>
</tr>
<tr>
<td>NMC 2227H</td>
<td>Zoroastrian Cosmic History: From Genesis to Universal Judgment</td>
</tr>
<tr>
<td>NMC 2228H</td>
<td>Zoroastrian Apocalyptic Literature: To the Netherworld and Beyond</td>
</tr>
<tr>
<td>NMC 2235Y</td>
<td>Literature and Society in Modern Iran</td>
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**Religion and Philosophy**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NMC 1613Y</td>
<td>Ancient Western Asiatic Religions (PhD students in Near and Middle Eastern Civilizations excluded)</td>
</tr>
<tr>
<td>NMC 1614Y</td>
<td>Ancient Egyptian Religion (PhD students in Near and Middle Eastern Civilizations excluded)</td>
</tr>
<tr>
<td>NMC 2045Y</td>
<td>Islamic Philosophical Texts</td>
</tr>
<tr>
<td>NMC 2050Y</td>
<td>Islamic Theology and Philosophy</td>
</tr>
<tr>
<td>NMC 2052H</td>
<td>Islamic Religious Thought</td>
</tr>
<tr>
<td>NMC 2053Y</td>
<td>Images of the Prophet Muhammad</td>
</tr>
<tr>
<td>NMC 2055H</td>
<td>The Qur’an and Its Interpretation</td>
</tr>
<tr>
<td>NMC 2056H</td>
<td>Readings in Qur’an and Tafsir</td>
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</table>

**Turkish and Ottoman Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>NMC 2300Y</td>
<td>Introductory Turkish</td>
</tr>
<tr>
<td>NMC 2301Y</td>
<td>Intermediate Turkish</td>
</tr>
</tbody>
</table>
Degree and Diploma Programs by Graduate Unit

NMC 2330Y  Readings in Ottoman Historical Texts
NMC 2331Y  Ottoman Palaeography and Diplomatics
NMC 2340Y  Studies in Ottoman and Turkish Literature

Other Courses
NMC 2000Y  Directed Reading
NMC 2001Y  Directed Reading and Research
RST 9999Y  MA Thesis

Graduate Faculty

Full Members
Aksan, Virginia - BA, MA, MLS, PhD
Beaulieu, Paul-Alain - LLB, BA, MA, PhD (Associate Chair; Coordinator of Graduate Studies)
Daviau, Michele - MTH, PhD
Fox, Harry - BSc, BA, MS, MA, PhD
Grzymski, Krzysztof - MA, PhD
Hanssen, Jens - BPhil, DPhil
Harrak, Amir - MA, LTH, PhD
Harrison, Timothy - BA, MA, PhD (Chair and Graduate Chair)
Holmstedt, Robert - BA, MA, PhD
Kingston, Paul - BA, MA, MPH, DPhil
Lawson, Todd - BA, MA, PhD
Leprohon, Ronald - BA, PhD
Meacham, Tirzah - BA, MA, PhD
Metso, Sarianna - MA, PhD
Najman, Hindy - AB, MA, PhD
Newman, Judith - PhD
Northrup, Linda - BA, MA, PhD
Ostapchuk, Victor - BA, PhD
Pouls Wegner, Mary-Ann - BA, PhD
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Saleh, Walid - BA, MA, PhD
Subtelny, Maria - BA, PhD
Tavakoli-Targhi, Mohammad - BA, MA, PhD
Taylor, Glen - BA, MPH, MTH, PhD

Members Emeriti
Birnbaum, Eleazar - BA
Garshowitz, Libby - BA, MA, PhD
Golombek, Lisa - BA, MA, PhD
Hollanday, John - BS, BD, DTH
Keall, Edward - BA, PhD
Lutz, R.Theodore - MA
Pietersma, Albert - BA, BD, PhD
Sandler, Rivanne - BA, MA, PhD

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Ali, Abdel-Khalig - BA, MA
Emon, Anver - LLB, BA, LLM, MA, PhD, SJD
Fadel, Mohammad - BA, JD, PhD
Goebes, Katja - MA, DPhil
Guenther, Sebastian - MA, PhD
Hassanpour, Amir - BA, MA, PhD
Mason, Robert - BA, PhD
Mittermaier, Amira - MA, PhD
Raffaelli, Enrico - PhD

Reichel, Clemens - MA, PhD
Sadeq, Mohammed - BA, PhD
Schneider, Thomas - MPH, DPhil
Faculty Affiliation
Nursing

Degree Programs Offered
Nursing Science – MN, MHSc (Health Administration)/MN, PhD

Diploma Programs Offered
Nurse Practitioner –
  Master of Nursing (Nurse Practitioner Field)
  Concurrent Diploma in Anesthesia Care
  Post Master of Nursing (Nurse Practitioner Field)
  Diploma in Anesthesia Care
  Post-Master’s Nurse Practitioner (PMNP)
  Diploma

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Aboriginal Health
   - Nursing Science, MN, PhD
2. Addiction Studies
   - Nursing Science, MN, PhD
3. Aging, Palliative and Supportive Care Across the Life Course
   - Nursing Science, MN/MHSc, PhD
4. Bioethics
   - Nursing Science, MN, MN/MHSc, PhD
5. Cardiovascular Science
   - Nursing Science, MN, PhD
6. Community Development
   - Nursing Science, MN
7. Ethnic and Pluralism Studies
   - Nursing Science, MN, PhD
8. Global Health
   - Nursing Science, PhD
9. Health Care, Technology and Place
   - Nursing Science, PhD
    - Nursing Science, MN, PhD
11. Resuscitation Sciences
    - Nursing Science, MN, PhD
12. Women and Gender Studies
    - Nursing Science, MN, MN/MHSc, PhD
13. Women’s Health
    - Nursing Science, MN, PhD

Overview
The Master of Nursing program prepares advanced nursing practitioners with specialized knowledge, skills, and expertise in a defined area of nursing to design programs and influence practice. The program offers three fields:
- Nursing Administration
- Clinical Nursing
- Nurse Practitioner
The Post-Master’s Nurse Practitioner Diploma provides students holding an appropriate graduate degree the opportunity to develop the knowledge and skills required to practice as a Nurse Practitioner. Students study in the areas of adult or pediatric acute care.

The Master of Nursing (Nurse Practitioner Field) Concurrent Diploma in Anesthesia Care provides advanced education for Nurse Practitioner field students to develop their knowledge and skill related to the continuum of anesthesia care. The diploma is completed in conjunction with the MN (NP Field) program.

The Post-Master of Nursing (Nurse Practitioner Field) Diploma in Anesthesia Care is for students who are already nurse practitioners currently registered or eligible for registration with the College of Nurses of Ontario as Nurse Practitioner–Adult or Nurse Practitioner–Pediatrics.

The Combined Master of Health Science (Health Administration)/Master of Nursing program provides students with a strong interest in both nursing and health administration an opportunity to engage in an integrated program leading to the concurrent receipt of the MN and MHSc (Health Administration) degrees.

The Doctor of Philosophy program prepares scientists with the required analytical and research skills to study clinical or administrative nursing problems. Students study in one of three research fields:
- Effective Care and Health Outcomes
- Critical Approaches to Health and Health Care
- Nursing Health Systems

Contact and Address
Web: http://bloomberg.nursing.utoronto.ca
Email: inquiry.nursing@utoronto.ca
Telephone: (416) 978-8727
Fax: (416) 978-8222
Graduate Department of Nursing Science
University of Toronto
Suite 130, 155 College Street
Toronto, Ontario M5T 1P8
Canada
Degree Programs

Nursing Science

Master of Nursing

Minimum Admission Requirements

- Applicants must hold the BScN degree of the University of Toronto or an equivalent degree. Applicants must have obtained at least a mid-B standing in the final year of undergraduate study and, in addition, must have obtained at least a B standing in the next-to-final year.
- Applicants seeking admission to the Nurse Practitioner field must also have two years of clinical experience.
- For further information about admissions, please contact the Graduate Department of Nursing Science.

Program Requirements

- To qualify for the degree, a student shall complete a program of study outlined by the Graduate Department of Nursing Science.
- Students in all three fields are required to take foundational courses NUR 1017H, NUR 1022H, NUR 1028H, and NUR 1034H.
- For the Nursing Administration and Clinical Nursing fields, the program requirement is 5.0 FCEs, including a 1.0 FCE clinical course (NUR 1072Y).
- Students in Nursing Administration and Clinical Nursing fields are required to take one of the relational courses (NUR 1012H, NUR 1016H, NUR 1021H, NUR 1032H, or NUR 1043H) and choose three courses from a core-field concentration, two of which need to be Faculty of Nursing courses. One core-field course may be taken outside the Faculty of Nursing.
- For the Nurse Practitioner field, the program requirement is 5.5 FCEs. This field of study is offered in both e-learning and campus-based formats.
- All students in the Nurse Practitioner field are required to take NUR 1100Y, NUR 1110Y, and a combination of courses based on their specialization in adult (NUR 1101H and NUR 1115Y), pediatric (NUR 1102H and NUR 1116Y), or primary health care–global health (NUR 1114H and NUR 1117Y).

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Master of Nursing (Nurse Practitioner Field) Concurrent Diploma in Anesthesia Care

Minimum Admission Requirements

- To qualify, applicants must be first admitted to the master's program in the Nurse Practitioner field.
- Applicants must have successfully completed a minimum of two sessions in the MN (NP Field) program.
- Applicants must apply directly to the Faculty of Nursing by June 1 in year one of the MN (NP Field) program and are selected by an internal process involving the Faculty Admissions Committee.
- Applicants must have the two years of experience required for the MN (NP Field), normally in critical care or equivalent, and submit a written statement to support their interest and future application to this program.
- The diploma must be completed in conjunction with the MN curriculum that includes all NP courses required in the NP field of the MN program. Students must meet all School of Graduate Studies requirements for admission to and completion of the MN program, whether or not they complete the diploma program.
- Prerequisite is Anesthesia Graduate Certificate (basic) with pass grade from the Michener Institute or equivalent (1.0 FCE).

Program Requirements

- The diploma, completed in conjunction with the MN NP program, requires two years of full-time study to meet the MN requirements and three sessions of full-time study for the diploma, with two sessions embedded within the MN (NP Field) and one additional session.
- Students complete a total of 3.0 FCEs (includes two clinical courses) in a program of study outlined by the Graduate Department of Nursing Science. Students are required to complete the following:
  - NUR 1201H Principles of Anesthesia Care
  - NUR 1202H Advanced Pain Management Across Clinical Settings
  - NUR 1209Y Advanced Nursing Practice in Caring for Clients and Families Requiring Anesthesia I (300 clinical hours)
  - NUR 1210Y Advanced Nursing Practice in Caring for Clients and Families Requiring Anesthesia II (300 clinical hours)

Normal Program Length: 7 sessions full-time
Time Limit: 7 years full-time
Combined Master of Health Science (Health Administration)/ Master of Nursing

Minimum Admission Requirements
- Admission to the combined program is conditional upon independent admission to each of the participating graduate units. Applicants will normally be required to complete separate application forms on a concurrent basis and pay the application fees for admission to the MN program and the MHSc (Health Administration) program. Students must satisfy the full requirements for each of the participating graduate units.
- The aggregate criteria listed below must be satisfied to ensure that an application is considered complete for the purpose of entry into the Combined MHSc/MN program in Health Administration and Nursing Science. Applicants must:
  o be accepted under the General Regulations of the School of Graduate Studies. Meeting the minimum requirements does not guarantee admission.
  o hold a University of Toronto BSc degree in Nursing with B+ standing or better in the last two years of undergraduate study, or its equivalent from a recognized university. The student is expected to have good academic standing in non-nursing as well as nursing subjects.
  o have successfully completed an introductory course in statistics prior to admission.
  o have at least three years of work experience in the health care field.

Program Requirements
- Year 1: students enrol in the Faculty of Nursing and complete 4.0 required full-course equivalents (FCEs) for the MN degree.
- Year 2: students enrol in the Department of Health Policy, Management and Evaluation (HPME) and complete 5.5 FCEs towards the MHSc (Health Administration) degree plus 1.0 elective FCE that can be taken from either degree program.
- Year 3: 1.0 FCE taken in HPME.

Time Limit: 6 years full-time

Doctor of Philosophy

Minimum Admission Requirements
- Applicants must normally have a master’s degree in nursing with at least a B+ standing or its equivalent from a recognized university.
- For further information about admissions, please contact the Graduate Department of Nursing Science. Deadline for applications is February 1.

Program Requirements
- The PhD in Nursing may be completed as a full-time program or a flexible-time program.

Full-Time PhD Option
- The program of study includes a minimum of five courses, including NUR 1081Y PhD Student/ Faculty Seminars, one required course (either NUR 1085H, NUR 1086H, or NUR 1087H depending on the chosen field of study), and a thesis.
- In order to qualify for the degree, a student shall complete a program of study to support her or his research plan. The student’s program must be approved by her or his supervisory committee in the department.
- An examination of the dissertation proposal is required, usually in the second year and no later than August 31 of the third year, at the completion of the minimum coursework requirements. The student’s dissertation will be defended in the departmental oral examination and the doctoral final oral examination of the School of Graduate Studies.

Flexible-Time PhD Option
- Applicants must indicate on the application form their preference for the flexible-time option. The admission, course, and degree requirements for the flexible-time option are identical to those listed for the full-time PhD program.
- The dissertation proposal is usually examined in the third year and no later than August 31 of the fourth year.

Normal Program Length: 4 years full-time; 5 years transfer-from-master’s; 6 years flexible-time
Time Limit: 6 years full-time; 7 years transfer-from-master’s; 8 years flexible-time

Diploma Programs

Nurse Practitioner

Post Master of Nursing (Nurse Practitioner Field) Diploma in Anesthesia Care

Minimum Admission Requirements
- Applicants must have completed a University of Toronto Master of Nursing (NP Field) degree or equivalent.
- Applicants must be currently registered or are eligible for registration with the College of Nurses of Ontario as a Nurse-Practitioner Adult or Nurse Practitioner Paediatrics.
- Applicants must normally have two years of experience in critical care or equivalent.
Applicants must provide three letters of reference (academic, professional, and clinical [NP or MD]), and submit a written statement to support their application to this program.

Applicants must apply by June 1 to the Faculty of Nursing.

Prerequisite is successful completion (Pass grade) of the Anesthesia Graduate Certificate (basic) from the Michener Institute or equivalent (1.0 FCE).

Program Requirements

Students complete a total of 3.0 FCEs (includes two clinical courses) in a program of study outlined by the Graduate Department of Nursing Science. Students are required to complete the following:

- NUR 1201H Principles of Anesthesia Care
- NUR 1202H Advanced Pain Management Across Clinical Settings
- NUR 1209Y Advanced Nursing Practice in Caring for Clients and Families Requiring Anesthesia I (300 clinical hours)
- NUR 1210Y Advanced Nursing Practice in Caring for Clients and Families Requiring Anesthesia II (300 clinical hours)

Normal Program Length: 3 sessions full-time
Time Limit: 7 years full-time

Post-Master’s Nurse Practitioner Diploma

Minimum Admission Requirements

- Applicants to the Post-Master’s Nurse Practitioner (PMNP) diploma program must have completed a master’s degree in nursing or an equivalent graduate degree that includes clinical nursing experience and a minimum of two years of clinical nursing experience. A signed preceptor agreement is required.
- Preference is given to applicants who have one or more years in an advanced nursing practice role (in addition to clinical experience) and support within their employment setting.

Program Requirements

- All students in the Post-Master’s NP diploma program are required to complete a total of 3.5 FCEs as follows:
  - NUR 1100Y Pathophysiologic Concepts and Therapeutics
  - NUR 1101H Advanced Health Assessment and Clinical Reasoning: Adult or NUR 1102H Advanced Health Assessment and Clinical Reasoning: Pediatric or NUR 1114H Advanced Health Assessment and Clinical Reasoning: Primary Health Care–Global Health; each course consists of 100 clinical hours.
  - NUR 1115Y Advanced Nursing Practice in Caring for Clients and Families I: Adult or NUR 1116Y Advanced Nursing Practice in Caring for Clients and Families I: Pediatric or NUR 1117Y Advanced Nursing Practice in Caring for Clients and Families I: Primary Health Care–Global Health; each course consists of 300 clinical hours.
  - NUR 1110Y Advanced Nursing Practice in Caring for Clients and Families II; course consists of 300 clinical hours
- Three program courses require the learners to be engaged in clinical practice.
- The program can be completed in one year on a full-time basis or in 20 months on a part-time basis. Part-time students must be enrolled in a minimum of two out of three sessions in each academic year.

Normal Program Length: 5 sessions part-time
Time Limit: 3 years part-time

Course List

NUR 1012H Culture and Relations
NUR 1014H The Politics of Aboriginal Health
NUR 1016H Health Systems, Policy, and the Profession
NUR 1017H History of Ideas in Nursing Practice
NUR 1021H Nursing Ethics
NUR 1022H Research Design, Appraisal, and Utilization
NUR 1023H Critical Issues in the Design and Conduct of Controlled Trials of Behavioural Health Care Interventions (For PhD students only. Prerequisite: Introductory graduate course in research design and biostatistics. For students planning an RCT for their thesis research.)
NUR 1024H Foundations of Qualitative Inquiry
NUR 1025H Doing Qualitative Research: Design and Data Collection
NUR 1028H Introduction to Qualitative Research: Methodologies, Appraisal and Knowledge Translation
NUR 1030H Principles of Leadership and Advanced Clinical Practice in Emergency Preparedness
NUR 1032H Group Process and Professional Practice
NUR 1034H Program Planning and Evaluation in Nursing
NUR 1035H Public and Population Health Perspectives
NUR 1036H Advanced Nursing Practice in Oncology
NUR 1038H Social Determinants of Health in a Global Context
NUR 1039H Women’s Health Across the Lifespan
NUR 1040H Issues in Women’s Health Care
NUR 1042H Responses of Children and Families to Illness in Childhood
NUR 1043H Theories of Interpersonal Process
NUR 1045H Theories of Pain: Impact on the Individual, Family and Society
NUR 1046H Persistent Illness: Theoretical, Research and Practice Implications
NUR 1047H Community Participation and Health
NUR 1048H Politics of Health in the Community
NUR 1049H Nursing Approaches to Common Physiological and Behavioural Manifestations of Critically Ill Patients
NUR 1050H Coping With Illness
NUR 1051H Assessment and Management of Common Responses to Illness
NUR 1052H Perinatal Nursing Sciences
NUR 1053H Interventions to Enhance Health, Abilities and Well-being
NUR 1054H Aging, Gender and Equity
NUR 1055H Informatics: Theory and Application in Nursing
NUR 1056H Leadership and Management of Nursing and Health Services
NUR 1057H Patient Information Systems/Workload Measurement
NUR 1058H Measuring Nursing Care Effectiveness: Economic and Financial Perspectives
NUR 1059H Behaviour in Health Care Organizations
NUR 1060H Theoretical Basis for Methodology for Quality Improvement in Nursing Services
NUR 1061H Recovery-Oriented Mental Health Systems of Care
NUR 1062H Advanced Nursing Practice Scholarship
NUR 1063H Research in Health Informatics
NUR 1064H Facilitating Learning: Nursing Perspectives
NUR 1065H Science (Required course for PhD students only)
NUR 1066H PhD Student/Faculty Seminars
NUR 1067H Knowledge Production in Nursing and Health
NUR 1068H Comparative Politics of Health Policy in Globalizing World
NUR 1069H Applied Statistics in Nursing
NUR 1070H Topics in Critical Perspectives in Health and Health Care
NUR 1071H Selected Topics in Nursing/Health Services Research Methods
NUR 1072H Foundations of Clinical Research
NUR 1073H Measurement of Data Quality (Prerequisite: completion of an advanced graduate level statistics course)
NUR 1074H Pathophysiologic Concepts and Therapeutics
NUR 1075H Advanced Health Assessment and Clinical Reasoning: Adult (Credit/No Credit) (Prerequisite: NUR 1100Y. Pre- or co-requisite: NUR 1022H.)
NUR 1076H Advanced Health Assessment and Clinical Reasoning: Pediatric (Credit/No Credit) (Prerequisite: NUR 1100Y. Pre- or co-requisite: NUR 1022H.)
NUR 1077H Advanced Health Assessment and Clinical Reasoning: Primary Health Care–Global Health (Credit/No Credit) (Prerequisite: NUR 1100Y. Pre- or co-requisite: NUR 1022H.)
NUR 1078H Advanced Nursing Practice in Caring for Clients and Families I: Adult (Prerequisites: NUR 1017H, NUR 1022H, NUR 1100Y, NUR 1101H)
NUR 1079H Advanced Nursing Practice in Caring for Clients and Families I: Pediatric (Prerequisites: NUR 1017H, NUR 1022H, NUR 1100Y, NUR 1102H)
NUR 1080H Advanced Nursing Practice in Caring for Clients and Families I: Primary Health Care–Global Health (Prerequisites: NUR 1017H, NUR 1022H, NUR 1100Y, NUR 1114H)
NUR 1081H Advanced Nursing Practice in Caring for Clients and Families I: Adolescent (Prerequisites: NUR 1017H, NUR 1022H, NUR 1100Y, NUR 1115Y)
NUR 1082H Advanced Nursing Practice in Caring for Clients and Families I: Geriatric (Prerequisites: NUR 1017H, NUR 1022H, NUR 1100Y, NUR 1116Y)
NUR 1083H Advanced Nursing Practice in Caring for Clients and Families I: Rehabilitation (Prerequisites: NUR 1017H, NUR 1022H, NUR 1100Y, NUR 1117Y)
NUR 1084H Principles of Anesthesia Care
NUR 1085H Pain Management Across Clinical Settings: Theory, Research And Practice
NUR 1086H Advanced Nursing Practice For Caring For Families Requiring Anesthesia I
NUR 1087H Advanced Nursing Practice For Caring For Families Requiring Anesthesia II

Graduate Faculty

Full Members

Angus, Janet - BScN, MSN, PhD
Bierman, Arlene - MS, MD
Clarke, Sean - MSN, PhD
Dennis, Cindy-Lee - PhD
Doran, Diane - BA, PhD
Dubrowski, Adam - BSc, MSc, PhD
Esplen, Mary Jane - BScN, MSN, PhD, RN
Gastaldo, Denise - BSN, MA, PhD
Goering, Paula - BSc, MSc, PhD
Hillan, Edith - MPH, MSc, PhD
Hodnett, Ellen - BSN, PhD
Howell, Doris - PhD
Khanlou, Nazilla - BScN, MS, DPhil
Karlstrom, Nazella - BScN, MS, DPhil
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McCullough, Mickey - PhD
McGillivray, Linda - BBA, MS, PhD
McKeever, Patricia - BSN, MSA, DPhil, RN
Metcalfe, Kelly - BNSc, PhD
Muntaner, Carles - BHSc, MD, MPhil
Nelson, Siobhan - PhD
O’Brien-Pallas, Linda-Lee - BSN, MSN, DPhil
Peter, Elizabeth - BA, BSN, MSN, PhD
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Sidani, Souraya - TD, BS, MS, PhD
Stevens, Bonnie - BSc, MSN, DPhil
Titchkosky, Tanya - BA, MA, PhD
Tourangeau, Ann - PhD

Members Emeriti

Donner, Gail - PhD
Gallop, Ruth - BSN, MSN, PhD
Pringle, Dorothy - BScN, MS, PhD
Watt-Watson, Judith - BSN, MSN, DPhil
### Associate Members

Andrews, Gavin John - BA, PhD  
Armson, Anthony - BSc, MSc, MD  
Beduz, Mary Agnes - MN  
Belford, Linda - BSN  
Berta, Whitney - BS, MBA, PhD  
Birn, Anne-Emanuelle - BA, MA, DSc  
Bordeleau, Louise - MSc, MD  
Boscart, Veronique - BScN, MSN, MHPE  
Boutis, Kathy - MD  
Carney, Colleen - BScN, AM, PhD  
Carroll, June - MD  
Chau, Tom - PhD  
Chavez, Wilfrida - MHSc  
Cummings, Greta - BNSc, MEd, PhD  
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Gladstone, Brenda - BA, PhD  
Greenberg, Mark - LMCC, MD, MChB  
Hardie, Catherine - BSN, MSN, EdD  
Hsiung, Ping-Chun - PhD  
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Husain, Anna - LMCC, MD  
Hutchison, Jamie - MD  
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Korkola, Lori - MN  
Lester, Charlene - BScN, MN  
Leung, Doris - BScN, MN, PhD  
Macdonald, Geraldine - BSN, MEd, EdD  
Maser, Catherine - BSc, MN  
McAllister, Mary - BNSc, MHSc  
Mccay, Elizabeth - MSN, PhD  
McPherson, Kathryn - Phm  
Messner, Hans - MD, PhD  
Meyer, Raquel - BSN, MN  
Miller, Fiona - BIS, MA, DPhil  
Murphy, Joan - MD  
Mykhalovskiy, Eric - BA, MA, PhD  
Nelson, LaRon - MSc  
Noh, Samuel - BA, MA, PhD  
O’Grady, Caroline - BScN, MN, PhD, RN  
O’Leary, Gerald - BA, BCH, LMCC, BM, BAO  
Parry, Monica - BScN, MSc, MEd, PhD  
Puts, Martine - PhD  
Robertson, Ann - BSc, MSc, PhD  
Ross, Heather - BSc, MD  
Ross, Lori - PhD  
Rourke, Sean - BSc, BA, PhD  
Ruddick, Susan - PhD  
Rudge, Trudy - PhD  
Sahlas, Demetrios James - MSc, MD  
Schneeweiss, Suzan - MD  
Secker, Barbara - BA, AM, PhD  
Shamian, Judith - PhD  
Simmonds, Anne - BScN, MN  
Sinuff, Tasnim - MSc, MD, PhD

Smadu, Marlene - BScN, MEd, EdD  
Squires, Mae - PhD  
Srivastava, Rani - BN, MSN  
Steele, Rose - PhD  
Stinson, Jennifer - BScN, MSc  
Stremler, Robyn - PhD, RN  
Watson, Mary Jo - BScN, MSc  
Williams, Charmaine - BA, BSc, MSW, PhD  
Wynn, Francine - BA, MA, PhD  
Zabjek, Karl - BSc, MCLSC, PhD
Nutritional Sciences

Faculty Affiliation
Medicine

Degree Programs Offered
Nutritional Sciences – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Aboriginal Health
   • Nutritional Sciences, MSc, PhD
2. Biomedical Toxicology
   • Nutritional Sciences, MSc, PhD
3. Women’s Health
   • Nutritional Sciences, MSc, PhD

Overview
The Department of Nutritional Sciences offers advanced studies leading to the Master of Science and Doctor of Philosophy degrees in the basic science, clinical, and community aspects of human nutrition. Research projects range from the molecular to the community level of inquiry. Applicants with appropriate preparation in health sciences will be admitted under the General Regulations of the School of Graduate Studies. Applicants interested in pursuing a Master of Public Health degree in Community Nutrition are advised to consult the calendar entry for the Department of Public Health Sciences for details.

Contact and Address
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Email: grad.nutrisci@utoronto.ca
Telephone: (416) 978-6071
Fax: (416) 978-5882
Department of Nutritional Sciences
University of Toronto
FitzGerald Building
Room 316, 150 College Street
Toronto, Ontario M5S 3E2
Canada

Degree Programs

Nutritional Sciences

Master of Science

Minimum Admission Requirements
• Applicants are admitted under the General Regulations of the School of Graduate Studies. Students with diverse backgrounds are encouraged to apply.
• A- standing in the final two years of a bachelor’s degree program or evidence of strong potential as a researcher.

Program Requirements
• A limited number of students are admitted to the MSc program on a part-time basis.
• Students participate in NFS 1204Y Master’s Seminars in Nutritional Sciences throughout their period of full-time registration and complete a minimum of two half courses.
• For students with undergraduate training in nutritional sciences, at least one of these courses must be taken in the department. Students with undergraduate training in disciplines other than nutritional sciences must take at least two half courses from the department.
• A course in statistical methods or research design and analysis is required if not completed previously.
• Thesis on an approved research area and its defence at an oral examination.

Normal Program Length: 3 sessions full-time; 6 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements
• Applicants may enter the PhD program in one of two ways:
  ○ Directly from a bachelor’s degree if their background is deemed appropriate and they have an A- or better average in their final two years.
  ○ With an appropriate MSc degree with at least an A- standing or evidence of strong potential as a researcher. Exceptional students may be allowed to reclassify into the PhD program after one year without completing the MSc on the recommendation of an advisory committee and successful completion of a reclassification examination.
Program Requirements

- The residence requirement for students admitted with a bachelor's degree is three years; for students admitted with a master's degree is two years.
- It is expected that students from either background can complete their PhD in a period of four years of full-time study, research, and thesis preparation; however, some students may require longer.
- Students participate in NFS 1304Y Doctoral Seminars in Nutritional Sciences.
- Students entering with a bachelor's degree will also complete a minimum of six half courses; those entering with an MSc degree, a minimum of four half courses. The courses will be chosen by each student to provide an appropriate background for his or her area of investigation. It is expected that all students will have an adequate knowledge of research design and statistics through coursework in their past or the current graduate program. The choice of courses will be made in consultation with the supervisor and the student's advisory committee and is subject to the approval of the department.
- Successful completion of a comprehensive examination in nutritional sciences.
- Thesis.
- Student must pass the departmental examination before proceeding to the doctoral final oral examination.

Normal Program Length: 4 years full-time; 5 years direct entry

Time Limit: 6 years full-time; 7 years direct-entry

Course List

Not all courses are offered every year. Please consult the department regarding course offerings.

NFS 1201H Public Health Nutrition
NFS 1204Y Master's Seminars in Nutritional Sciences (Credit/No Credit)
NFS 1208H Field Observation and Nutrition Program Laboratory I
NFS 1209H Field Observation and Nutrition Program Laboratory II (Credit/No Credit)
NFS 1210H Field Observation and Program Laboratory III: Management of Community Food Programs
NFS 1211H Community Nutrition
NFS 1212H Regulation of Food Safety
NFS 1216H Selected Topics Nutrition
NFS 1218H Recent Advances in Nutritional Sciences I
NFS 1220H Clinical Nutrition
NFS 1221H Nutrition Programs and Strategies

NFS 1222H Recent Advances in Nutritional Sciences II: Diet and Cardiovascular
NFS 1223H Dietary Carbohydrate and Glycaemic Index in Health and Disease
NFS 1224H Nutritional Epidemiology
NFS 1225H Nutrition and Metabolism for Public Health Nutrition Professionals
NFS 1301H Directed Reading in Nutritional Sciences
NFS 1304Y Doctoral Seminars in Nutritional Sciences (Credit/No Credit)
NFS 1484H Advanced Nutrition

Graduate Faculty

Full Members
Allard, Johane - MD
Anderson, Gerald - BSc, MSc, PhD
Archer, Michael - MA, MSc, PhD, DSc
Bazinet, Richard - BSc, PhD
Boyd, Norman - MD
Comelli, Elena - MSc, PhD
El-Sohemy, Ahmed - BSc, MSc, PhD, Canada Research Chair
Eyssen, Gail - BSc, MSc, PhD
Greenwood, Carol - BSc, MSc, PhD
Hanley, Anthony - BSc, MSc, PhD, Canada Research Chair (Graduate Coordinator, Admissions and Awards)
Jenkins, David Ja - BA, MA, MD, MB, BS, PhD, Canada Research Chair
Kim, Young-In - MD
Kreiger, Nancy - BA, MPH, PhD
L'Abbe, Mary - BSc, MSc, PhD (Chair and Graduate Chair)
Leiter, Lawrence Alan - BSc, MD
McCrimble, Brian - MD
Munro, Ian - BSc, MSc, PhD
Narod, Steven - BSc, MD
O'Connor, Deborah - BASc, MS, PhD
Pencharz, Paul - MD, MB, CHB
Sellen, Daniel - BA, AM, PhD
Tarasuk, Valerie - BA, BEd, BASc, MSc, PhD
Vieth, Reinhold - BSc, MSc, PhD
Vuksan, Vladimir - BSc, MSc, PhD
Ward, Wendy - BASc, MSc, PhD
Wolever, Thomas - BA, MSc, MA, BM, BCh, PhD (Graduate Coordinator, Student Affairs)
Zlotkin, Stanley - BSc, MD, PhD

Members Emeriti
Beaton, George - BA, MA, PhD
Bruce, Robert - BSc, LMCC, MSc, MD, PhD
Jeejeebhoy, Khursheed - MB, PhD
Kronlid, Maria - BSc, PhD
Rao, A Venketeshwara - BSc, MSc, PhD
Thompson, Lilian - BSc, MSc, PhD

Associate Members
Ball, Ronald - BSc, MSc, PhD
Darling, Pauline - BSc, MSc, PhD
Fox, Ann - BAA, MHSc, PhD
Josse, Robert - BSc, MBBS
Keith, Mary - BASc, PhD
Levitt, Anthony - MBBS, DGo, MB
Ma, David - BSc, PhD
Pausova, Zdenka - MD
Whiting, Susan - BSc, MSc, PhD
Williams, Patricia - BSc, PhD
Yeung, David - BA, MA, PhD
Occupational Science and Occupational Therapy

Faculty Affiliation
Medicine

Degree Programs Offered
Occupational Therapy – MScOT

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Women's Health
   • Occupational Therapy, MScOT

Overview
The Master of Science in Occupational Therapy program prepares students in advanced academic and professional knowledge and applied research skills for leadership in occupational therapy practice. The program emphasizes the application of theory and research evidence to clinical practice through rigorous studies in occupational therapy and research production and utilization. Graduates are eligible to write the certification examination of the Canadian Association of Occupational Therapists, a requirement for registration with the College of Occupational Therapists of Ontario and most other professional regulatory colleges in Canada. Practice in another country generally requires the graduate to pass the licensing requirement specific to that country. Graduates are eligible to:
1. practice independently in a variety of roles, such as consultants and case managers, and in a range of settings, such as acute care, interdisciplinary programs, private practice, and primary health care,
2. supervise rehabilitation assistants, OT aides, or other support workers,
3. use principles of research-based practice to guide and evaluate service delivery,
4. contribute to research that will advance the knowledge base of the discipline,
5. assume management roles,
6. take leadership roles in the profession,
7. take leadership roles in health care and other sectors including social services, education, and labour,
8. fill academic-practitioner positions, and
9. pursue doctoral studies and careers in academia or clinical research.

Contact and Address
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Email: ot.reception@utoronto.ca
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Department of Occupational Science and Occupational Therapy
University of Toronto
Room 160, 500 University Avenue
Toronto, Ontario M5G 1V7
Canada

Degree Programs
Occupational Science and Occupational Therapy

Master of Science in Occupational Therapy

Minimum Admission Requirements
- An appropriate bachelor's degree from a recognized university with high academic standing and a mid-B average or better in the final year of study. To determine initial ranking only, the department will review the last 10 full-course equivalents (FCEs) completed at the undergraduate level by the application deadline.
- Apply online using the Ontario Rehabilitation Sciences Programs Application Service (ORPAS) at www.ouac.on.ca/orpas. Applications are accepted approximately mid-October each year, with a deadline approximately the first week of January. Exact deadlines are posted on the ORPAS website and in the ORPAS Instruction Booklet.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction is not English must provide proof of English facility by March 1 of the year of application. See General Regulations, sections 4.1.10 English Language Facility and 5 Admissions Regulations, in this calendar for general information and acceptable tests. The department strongly prefers the Test of English as a Foreign Language (TOEFL) and requires a minimum score of:
  ○ 600 on the paper-based test, accompanied by a minimum score of 5 on the Test of Written English
  ○ 100/120 on the Internet-based test with 22/30 on the speaking section and 22/30 on the writing section.
TOEFL candidates should request that results be sent to institution code 0982.
Degree and Diploma Programs by Graduate Unit

- Refer to the departmental website (www.ot.utoronto.ca) and ORPAS for additional information regarding application document submissions (e.g., confidential assessment forms, resume, personal statement submission).

Program Requirements
- The MScOT is a two-year, 24-course (18.0-FCE) program of continuous, full-time study.
- Students begin their studies in September and complete six consecutive sessions, with a range of four to six concurrent courses in each session. There are four full-time block fieldwork components within the program of study.

Normal Program Length: 6 sessions full-time
Time Limit: 3 years full-time

Course List
- OCT 1100H Applied Skills and Technology: Human Factors and Design in Occupational Therapy
- OCT 1111Y Occupational Science: Foundations for Occupational Therapy
- OCT 1121H Research Issues and Approaches in Occupational Therapy
- OCT 1122H Methods in Practice-Based Research
- OCT 1131H Occupational Therapy Practice I
- OCT 1132H Occupational Therapy Practice II
- OCT 1133H Occupational Therapy Practice III
- OCT 1141H Assessment in Occupational Therapy
- OCT 1152Y Musculoskeletal Structure and Function
- OCT 1162Y Psychosocial Perspectives in Occupational Therapy
- OCT 1172Y Neuro-motor/Neuro-cognitive Perspectives in Occupational Therapy

- OCT 1183Y Occupational Therapy Fieldwork I
- OCT 1190Y Building Practice Through Mentorship
- OCT 1220Y Graduate Research Project (1.5 FCEs)
- OCT 1251H Enabling Occupation with Children: Part I
- OCT 1252H Enabling Occupation with Children: Part II
- OCT 1261H Enabling Occupation with Adults: Part I
- OCT 1262Y Enabling Occupation with Adults: Part II
- OCT 1271H Enabling Occupation with Older Adults: Part I
- OCT 1272H Enabling Occupation with Older Adults: Part II
- OCT 1281Y Occupational Therapy Fieldwork II
- OCT 1282Y Occupational Therapy Fieldwork III
- OCT 1283Y Occupational Therapy Fieldwork IV

Graduate Faculty

Full Members
- Agur, Anne - BSc, MSc, PhD
- Cameron, Jill - BS, MS, PhD
- Carnahan, Heather - BPHE, MSc, PhD
- Carswell, Anne - DipOT, BSc(OT), MSc, PhD
- Colantonio, Angela - BA, BSc(OT), MHSc, PhD
- Dawson, Deirdre - BSc, MSc, PhD
- Friefeld, Sharon - BSc(OT), MA, PhD
- Iwama, Michael - BSc(OT), BSc, MSc, PhD
- Kirah, Bonnie - BSc(OT), MEd, PhD
- Mihailidis, Alex - BAsc, MAsc, PhD
- Polatajko-Howell, Helene - PhD
- Rappolt, Susan - BSc(OT), MSc, PhD (Chair and Graduate Chair)
- Reid, Denise - BSc(OT), MEd, PhD
- Renwick, Rebecca - DipOT, BA, PhD

Members Emeriti
- Friedland, Judith - BA, MA, PhD

Associate Members
- Barker, Donna - BSc(OT), MSc
- Cameron, Debra - BSc(OT), MEd, PhD
- Campbell, Kent - BSc, PhD
- Cockburn, Lynn - BSc(OT), BCom, MEd, MPH, PhD
- Farrow, Susan - BSc(OT), BA
- Fourt, Anne - BSc(OT), MEd
- Hebert, Debbie - BSc(OT), MSc
- Keightley, Michelle - BSc, MA, PhD
- Langlois, Sylvia - BSc, MSc
- Mckee, Patricia - DipOT, BSc(OT), MSc
- Rigby, Patty - DipOT, MHSc
- Secker, Barbara - BA, AM, PhD
- Stack, Rachel - BSc, MCLSC
- Stier, Jill - MA, BMEdSc (Coordinator of Graduate Studies)
- Trentham, Barry - BSc(OT), MES
Pharmaceutical Sciences

Faculty Affiliation
Pharmacy

Degree Programs Offered
Pharmaceutical Sciences – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. **Addiction Studies**
   - Pharmaceutical Sciences, MSc, PhD

2. **Aging, Palliative and Supportive Care Across the Life Course**
   - Pharmaceutical Sciences, MSc, PhD

3. **Biomedical Engineering**
   - Pharmaceutical Sciences MSc, PhD

4. **Biomedical Toxicology**
   - Pharmaceutical Sciences, MSc, PhD

5. **Cardiovascular Sciences**
   - Pharmaceutical Science, MSc, PhD

6. **Global Health**
   - Pharmaceutical Sciences, PhD

7. **Health Care, Technology and Place**
   - Pharmaceutical Sciences, PhD

8. **Health Services and Policy Research**
   - Pharmaceutical Sciences, MSc, PhD

9. **Neuroscience**
   - Pharmaceutical Sciences, MSc, PhD

10. **Resuscitation Sciences**
    - Pharmaceutical Sciences, MSc, PhD

Overview
The Department of Pharmaceutical Sciences offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees. The department offers research opportunities and courses in three principal areas:

1. **Molecular Pharmacology and Toxicology**: drug receptor interactions, molecular biology, electrophysiology, biochemistry, clinical, adverse drug reactions, and drug metabolism

2. **Pharmaceutics and Pharmacokinetics**: pharmaceutical and medicinal chemistry, pharmaceutical formulations, radiopharmaceutical synthesis, drug discovery, biophysical chemistry, basic pharmacokinetics and clinical research

3. **Clinical, Social and Administrative Pharmaceutical Sciences**: clinical and pharmacy practice, sociology of health, social psychology, health policy, and health economics

Contact and Address
Web: http://pharmacy.utoronto.ca/programs/gradprograms.htm
Email: pharm sci@utoronto.ca
Telephone: (416) 978-2179
Fax: (416) 978-8511

Graduate Department of Pharmaceutical Sciences
Leslie Dan Faculty of Pharmacy
University of Toronto
144 College Street
Toronto, Ontario M5S 3M2
Canada

Degree Programs

Pharmaceutical Sciences

Master of Science

Minimum Admission Requirements

**Full-Time MSc**
- An appropriate bachelor’s degree from a recognized university with at least a mid-B average in each of the last two years of undergraduate study.
- The Pharmaceutical Sciences Graduate Admissions Committee considers the applicant’s background and accomplishments, academic standing, and financial support from the potential supervisor.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination is not English are required to write the Test of English as a Foreign Language (TOEFL) with the following minimum scores:
  - paper-based TOEFL: 600 and 5 on the TWE
  - Internet-based TOEFL: 100/120 and 22/30 on the writing and speaking sections.
- If the undergraduate degree was not obtained from a recognized Canadian or US university, the applicant must write and achieve scores at the 50th percentile ranking or better on the Graduate Record Examination (GRE) General Test.

**Part-Time MSc**
- A limited number of students will be admitted to the MSc program on a part-time basis. All admission requirements are the same as for the full-time MSc.
Program Requirements

Full-Time MSc

• A program of study that provides the appropriate foundation for thesis research. The program depends on the student’s background and is planned in consultation with the supervisor and advisory committee, with the approval of the graduate chair.
• The student normally completes 2.0 full-course equivalents (FCEs), but a minimum of 1.0 FCE is required.
• Yearly advisory committee meetings.
• One poster presentation given to all faculty and graduate students at Graduate Research in Progress (GRIP), and yearly attendance at GRIP.
• Regular attendance at Pharmaceutical Sciences departmental seminars.
• An oral presentation of own research work is given after the first 12 months of registration in the program.
• Final seminar to be given during the thesis defence.
• A thesis based on an approved research problem in a field of pharmaceutical sciences.

Part-Time MSc

• All requirements are the same as for the MSc full-time program.

Normal Program Length: 6 sessions full-time; 14 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

Full-Time PhD

• Appropriate master’s degree from a recognized university with a minimum overall B+ average.
• Under exceptional circumstances, students may be admitted directly to the PhD program with an appropriate bachelor’s degree. Factors considered include academic standing, ability to conduct research, and availability of financial support from the potential supervisor.
• The Pharmaceutical Sciences Graduate Admissions Committee considers the applicant’s background and accomplishments, academic standing, and financial support from the potential supervisor.
• Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination is not English are required to write the Test of English as a Foreign Language (TOEFL) with the following minimum scores:
  ○ paper-based TOEFL: 600 and 5 on the TWE
  ○ Internet-based TOEFL: 100/120 and 22/30 on the writing and speaking sections.
• If the undergraduate degree was not obtained from a recognized Canadian or US university, the applicant must write the Graduate Record Examination (GRE; General Test) and achieve scores at the 50th percentile ranking or better on the Verbal and Quantitative components and a minimum score of 5.0 on the Analytical Writing component.

Transfer from MSc to PhD

• Students who have a high academic standing and a clearly demonstrated ability to do research at the doctoral level may be eligible to transfer to the PhD program after one year in the MSc program. The student must have completed at least 1.0 FCE with an average grade of A- and have financial support.
• A transfer from the MSc program to the PhD program occurs normally within 15 months of the student’s first registration in the MSc program.

Flexible-Time PhD

• The department offers a flexible-time PhD program option for selected students. This program benefits professionals with career obligations and whose employment is closely related to their intended area of research.
• Applicants must meet all the admission requirements for entry to the full-time PhD program in Pharmaceutical Sciences.
• A letter of support from the employer.
• The departmental admissions committee reviews the applications; admission is highly selective with preference given to applicants who:
  ○ are members in good standing of a regulated profession or scientific society, and
  ○ hold a university appointment in Canada at an academic standard equivalent to the University of Toronto Lecturer.

Program Requirements

Full-Time PhD

• A program of study that provides the appropriate foundation for thesis research. The program depends on the student’s background and is planned in consultation with the supervisor and advisory committee, with the approval of the graduate chair. Students normally complete 2.0 FCEs. Students admitted directly to the PhD program with a BSc must complete 3.0 FCEs.
• Yearly advisory committee meetings.
• A qualifying examination.
• Research presentation(s) to all faculty and graduate students at Graduate Research in Progress (GRIP). Students entering the program with a MSc degree must complete one oral presentation. Direct-entry
PhD students must complete one oral and one poster presentation.

- Annual attendance at GRIP, and an exit full-length research seminar to be given before the thesis defence.
- Regular attendance, with a minimum of eight Pharmaceutical Sciences departmental seminars in each academic year.
- In addition to the departmental exit seminar held within three months of the final thesis defence, all PhD students are required to give an oral research presentation of approximately 20–30 minutes every year after the first 12 months of registration in the program, unless the student presents at GRIP.
- A thesis in conformity with the University of Toronto regulations, based on research conducted while registered in a PhD program at the University of Toronto.

Students are required to be on campus and participating full-time (including summer) until all program requirements are completed. Simultaneous registration in another full-time degree program is not allowed. Coursework should normally be completed within the first three years of registration.

Transfer from MSc to PhD
- The transferred student must complete all remaining course requirements of the MSc program, except the thesis, in addition to the requirements of the PhD program. Credit is given in the doctoral program for research and graduate courses completed prior to the transfer.

Flexible-Time PhD
- The program requirements for the flexible-time PhD option are identical to the requirements for the full-time PhD program, except students in the flexible-time PhD program are required to complete a minimum of at least four seminars in each academic year.
- Students must ensure that they have adequate time on campus to attend classes and to fulfil the academic requirements.
- Full-time registration is required for the first four years for those entering the program with a master’s degree; five years for those with a bachelor’s degree. Thereafter, students may register part-time.

Normal Program Length: 4 years full-time; 5 years direct-entry; 5 years transfer-from-master’s; 7 years flexible-time

Time Limit: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master’s; 7 years flexible-time

Course List

Please consult the department’s timetable for courses offered in a given year.

PHM 1107H  Advanced Pharmacokinetics Course I
PHM 1109H  Recent Developments in Dosage Form Design (Prerequisite PHM 224Y or equivalent)
PHM 1110H  Chemical Basis of Drug Metabolism
PHM 1111H  Research and Statistical Analytical Methods
PHM 1115H  Special Topics in Radiopharmaceuticals II
PHM 1120H+  Selected Research Topics in the Pharmaceutical Sciences
PHM 1122H  Fundamentals of Drug Discovery
PHM 1124H  The Power and Politics of Global Pharmaceutical Policy
PHM 1126H  The Economics of Health and Health Care
PHM 1127Y  Biomolecular Interactions and Thermodynamics
PHM 1128H  Introduction to Models and Methods of Research in Clinical, Social, and Administrative Pharmacy
JFK 1120H  Selected Topics in Drug Development I
JFK 1121H  Selected Topics in Drug Development II
JFK 1122H  Drug Transport Across Biological Membranes
JNP 1014Y  Interdisciplinary Toxicology
JNP 1016H  Graduate Seminar in Toxicology
JNP 1017H+  Current Topics in Molecular and Biochemical Toxicology
JNP 1018H+  Molecular and Biochemical Basis of Toxicology
PAS 3700H  Multidisciplinary Aspects of Addictions
PPG 2010H  Panel Data Methods for Public Policy Analysis

Graduate Faculty

Full Members
Allen, Christine - BSc, PhD, PhD
Angers, Stephane - BSc, PhD, Canada Research Chair
Austin, Zubin - BA, BScPhm, MBA, MIST, ME, PhD
Ballantyne, Peri - BA, MA, PhD
Bendayan, Reina - DP (Associate Dean, Graduate Education)
Boon, Heather - PhD (Coordinator of Graduate Studies)
Bowen, Barry - BScPhm, MScPhm
Busto, Usanda - BSc, DP
Cadarette, Suzanne - BSc, MSc, PhD
Chalikian, Tigran - PhD
Cheng, Yu-Ling - SB, PhD
Crandall, Ian - BSc, MSc, PhD
Cummins, Carolyn - BSc, PhD
Einarson, Thomas - BScPhm, MSc, MPharm, ME, PhD
Gariepy, Jean - BSc, PhD
Giaever, Guri - BS, PhD, Canada Research Chair
Grant, Denis - BSc, PhD
Grootendorst, Paul - BA, MEC, PhD
Hampson, David - PhD
Heerklotz, Heiko - PhD, Canada Research Chair

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Henderson, Jeffrey - PhD
Hindmarsh, K Wayne - BSP, MSc, PhD
Holbrook, Anne - BScPhm, MSc, MD, DP
Ito, Shinya - MD, BM
Kelley, Shana - BA, PhD
Kohler, Jillian - BA, MA, PhD
Koren, Gideon - MD
Kotra, Lakshmi - BSc, PhD
Krahn, Murray - BA, MSc, MD
Lee, Ping - BsChE, PhD, GlaxoSmithKline Chair in
Pharmaceutics and Drug Delivery
Macgregor, Robert - BS, PhD
MacKeigan, Linda - BScPhm, PhD
Mann, Henry - BScPhm, DP
Muzzin, Linda - BA, MA, MPSY, PhD
Pang, K Sandy - BSc, PhD
Pennefather, Peter - BSc, PhD
Piquette-Miller, Michelene - BScPhm, PhD
Reilly, Raymond - BSc, BSc, MSc, PhD
Saville, Bradley - BSc, PhD
Spino, Michael - BScPhm, DP
Sproule, Beth - BScPhm, DP
Taddio, Anna - BScPhm, MScPhm, PhD
Thompson, Alison - BA, MA, PhD
Uetrecht, Jack - BSc, MSc, MD, PhD, Canada Research
Chair
Walker, Scott - BScPhm, MScPhm
Wells, James - BSc, MSc, PhD
Wells, Peter - BScPhm, DP
Wu, Xiao Yu - PhD
Zheng, Gang - MSc, PhD

Members Emeriti
Marshman, Joan - BScPhm, MSc, PhD
Nairn, John - BScPhm, PhD
O’Brien, Peter John - BSc, MSc, PhD

Associate Members
Dupuis, Lee - BSc, BScPhm
Hardy, Brian - BSc, BSP, DP
Mamdani, Muhammad - DP
Papadimitroupoulos, Emmanuel - BSc, BSP, MScPhm, PhD
Pharmacology and Toxicology

Faculty Affiliation
Medicine

Degree Programs Offered
Pharmacology – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Addiction Studies
   • Pharmacology, MSc, PhD
2. Biomedical Toxicology
   • Pharmacology, MSc, PhD
3. Cardiovascular Sciences
   • Pharmacology, MSc, PhD
4. Neuroscience
   • Pharmacology, MSc, PhD
5. Resuscitation Sciences
   • Pharmacology, MSc, PhD
6. Women's Health
   • Pharmacology, MSc, PhD

Overview
The Department of Pharmacology and Toxicology offers graduate programs leading to the degrees of Master of Science and Doctor of Philosophy in Pharmacology. Faculty conduct research in the following areas:
• biochemical and molecular pharmacology
• cardiovascular pharmacology
• clinical pharmacology
• drug addiction
• drug metabolism, distribution, and pharmacokinetics
• endocrine pharmacology
• immunopharmacology
• neuropharmacology
• pharmacogenetics
• psychopharmacology
• receptor pharmacology
• second messengers and signal transduction
• toxicology
All MSc and PhD students are expected to undertake self-directed study and to demonstrate proficiency in pharmacological principles throughout the course of their graduate program.

Contact and Address
Web: www.pharmtox.utoronto.ca
Email: pharmtox.dept@utoronto.ca
Telephone: (416) 978-5244
Fax: (416) 978-6395

Department of Pharmacology and Toxicology
University of Toronto
Room 4207, Medical Sciences Building
Toronto, Ontario M5S 1A8
Canada

Degree Programs
Pharmacology

Master of Science

Minimum Admission Requirements
• Appropriate bachelor’s degree, or its equivalent, from a recognized university with a final-year average of at least a B+.
• Applicants are normally required to have taken courses in physiology, biochemistry, or allied sciences sufficient to form a foundation for their work in pharmacology.
• The department must be satisfied about the applicant’s background, accomplishments, and financial support.
• All successful applicants are responsible for obtaining research supervision and financial support before they are permitted to officially register in their program.

Program Requirements
• Minimum period of one full year of residence during which time the student is required to be on campus full-time and consequently in such geographical proximity as to be able to participate fully in the department’s activities associated with the program.
• PCL 1002Y Graduate Pharmacology. The academic program may require additional coursework.
• Each student will present a departmental seminar after approximately one year in the program.
• Each student will participate in a research program and present the results of the investigation as a written thesis. The thesis will be evaluated and defended to the satisfaction of a thesis examination committee.
• MSc students in pharmacology who intend to continue their studies in the PhD program may choose to be evaluated during their MSc oral defence.
**Doctor of Philosophy**

**Minimum Admission Requirements**

- Appropriate master’s degree from a recognized university with an average of at least a B+ in master's-degree courses
- Applicants are normally required to have taken courses in physiology, biochemistry, or allied sciences sufficient to form a foundation for their work in pharmacology.
- The department determines the eligibility of prospective students. The department assesses the student’s ability for advanced study and independent research in pharmacology.
- Well qualified students with excellent research potential holding an appropriate bachelor's degree from a recognized university may be considered for direct admission to the PhD program. These applicants must have achieved a minimum final year average of A-.
- Applicants with MSc degrees from other departments or universities, and students admitted with a bachelor's degree will have their research ability reviewed after completion of one year. Upon successful completion of a departmental seminar and recommendation from the student’s advisory committee, the student will be permitted to proceed with the PhD program.
- Students transferring from the master’s program in pharmacology to the PhD program may receive full credit for master's courses towards doctoral course requirements, with the department’s permission.
- All successful applicants are responsible for obtaining research supervision and financial support before they are permitted to officially register in their program.

**Program Requirements**

- Minimum period of two full years of residence during which time the student is required to be on campus full-time and consequently in such geographical proximity as to be able to participate fully in the department’s activities associated with the program.
- PCL 1002Y Graduate Pharmacology (major subject), PCL 1003Y0 Seminars in Pharmacology (Credit/No Credit course), 1.0 additional FCE (minor subject), and any other courses advised by the Graduate Education Committee. The student’s advisory committee should help the student determine the minor course.
- Pharmacology graduate faculty members also offer a variety of laboratory-based and tutorial-based learning modules to provide breadth to the student’s training experience beyond their particular areas of research focus. During their program, PhD students are required to choose five breadth modules from among available options, at least one of which must be a laboratory module and one a tutorial module. 0.5 FCE from outside the student’s research area may substitute for one of the five breadth modules. The student’s advisory committee will assist the student in choosing suitable modules.
- As part of the course requirement for PCL 1003Y0 Seminars in Pharmacology, the student must present thesis material in seminars to the department on two occasions, one of which will take place between two and six months prior to the departmental final oral examination.
- Each student will participate in a research program and present the results of the investigation as a written thesis. The thesis must be orally defended to the satisfaction of a thesis examination committee.
- PhD students in other departments who desire to take a minor in pharmacology will be permitted to take one of the listed courses depending on their previous training and space availability in the course.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

### Course List

The department should be consulted each session as to course offerings. Students may also find up-to-date course information on the departmental website, [www.pharmtox.utoronto.ca/programs/grad/courses](http://www.pharmtox.utoronto.ca/programs/grad/courses).

- **PCL 1001Y** Systems Pharmacology
- **PCL 1002Y** Graduate Pharmacology
- **PCL 1003Y0** Seminars in Pharmacology (Credit/No Credit)
- **PCL 1004Y** Clinical Pharmacology
- **PCL 1012H** Cognitive Neuropharmacology
- **JFK 1120H** Selected Topics in Drug Development I
- **JFK 1121H** Selected Topics in Drug Development II
- **JFK 1122H** Drug Transport Across Biological Membranes
- **JNP 1014Y** Interdisciplinary Toxicology
- **JNP 1016H** Graduate Seminar in Toxicology
- **JNP 1017H+** Molecular and Biochemical Basis of Toxicology

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0 Course that may continue over a program. The course is graded when completed.

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Degree and Diploma Programs by Graduate Unit

Pharmacology and Toxicology

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.

JNP 1018H+ Current Topics in Molecular and Biochemical Toxicology
JNR 1444Y Fundamentals of Neuroscience: Cellular and Molecular
JPM 1005Y Behavioural Pharmacology
JYG 1555H Topics in Cellular and Molecular Neurobiology

Graduate Faculty

Full Members
Busto, Usanda - BSc, DP
Dorian, Paul - MSc, MDCH
George, Susan - MD
Grant, Denis - BSc, PhD
Grupp, Larry - DSc
Hampson, David - PhD
Harper, Patricia - PhD
Ito, Shinya - MD, BM
Kish, Stephen John - BSc, MSc, PhD
Koren, Gideon - MD
Lanctot, Krista - MSc, PhD
Laposa, Rebecca - PhD
Le, Dzung - PhD
Li, Peter Pun - BSc, MSc, PhD
MacDonald, John - BSc, PhD
McPherson, J. Peter - MSc, PhD (Coordinator of Graduate Studies)
Milgram, Norton - BSc, MSc, PhD
Mitchell, Jane - BSc, PhD
Moore, Malcolm - MD
Nobrega, Jose - PhD
O'dowd, Brian - PhD
Pang, K Sandy - BSc, PhD
Parker, John - BA, MD
Petronis, Arturas - MD
Piquette-Miller, Michelle - BScPhm, PhD
Riddick, David - BSc, PhD
Schimmer, Bernard - BS, PhD
Semple, John Wesley - PhD
Snead III, Carter - BS, MD, MD
Tomkins, Denise - PhD
Tyndall, Rachel - PhD
Uetrecht, Jack - BSc, MSc, MD, PhD, Canada Research Chair
Warsh, Jerry - MD
Wells, James - BSc, MSc, PhD
Wells, Peter - BScPhm, DP
Wong, Albert - MD, PhD
Young, Lionel Trevor - MSc, MD, PhD

Members Emeriti
Burnham, Willets - PhD
Endrency, Laszlo - PhD
Heersche, Johannes - BSc, PhD
Inaba, Tadanobu - BEng, MSc, PhD
Kadar, Dezso - BSc, MSc, PhD
Kalant, Harold - BSc, MD, PhD

O’Brien, Peter John - BSc, MSc, PhD
Okey, Allan - BSc, MSc, PhD
Pace-Asciak, Cecil - PhD
Seeman, Philip - BSc, MSc, MDCH, PhD
Sellers, Edward - MD, PhD

Associate Members
Brands, Bruna - PhD
Le Foll, Bernard - DrMed
Matthews, Jason - PhD
Meyer, Jeffrey - MD
Park, Hee-Won - DVM, MSc, DChem
Ramsey, Amy - PhD
Salahpour, Ali - PhD
Sun, Hong-Shuo - MSc, DrMed, DPhil
Woodland, Cindy - PhD
Zack, Martin - PhD
Degree and Diploma Programs by Graduate Unit

Philosophy

Faculty Affiliation
Arts and Science

Degree Programs Offered
Philosophy - MA, PhD, JD/PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Ancient and Medieval Philosophy
   • Philosophy, PhD
2. Bioethics
   • Philosophy, MA, PhD
3. Editing Medieval Texts
   • Philosophy, PhD
4. Environmental Studies
   • Philosophy, MA, PhD
5. Jewish Studies
   • Philosophy, MA, PhD
6. Sexual Diversity Studies
   • Philosophy, MA, PhD
7. Women and Gender Studies
   • Philosophy, MA, PhD

Overview
The Department of Philosophy offers two degree programs, Master of Arts and Doctor of Philosophy, as well as the Combined Juris Doctor/Doctor of Philosophy, which enables students to pursue work at the intersection of philosophy and law and to complete both the JD and the PhD in a shorter time than it would take to complete the degrees separately.

Applicants should consult the department's web page (www.philosophy.utoronto.ca) for complete details of graduate programs, course offerings, and short academic profiles of the graduate faculty.

Contact and Address
Web: www.philosophy.utoronto.ca
Email: phildept@chass.utoronto.ca
Telephone: (416) 978-3312
Fax: (416) 978-8703
Department of Philosophy
University of Toronto
Jackman Humanities Building (JHB)
4th Floor, 170 St. George Street
Toronto, Ontario M5R 2M8
Canada

Degree Programs

Philosophy

Master of Arts

Minimum Admission Requirements
- Students are admitted under the General Regulations of the School of Graduate Studies. Admission requires an appropriate bachelor’s degree from a recognized university. Applicants should have a strong background in philosophy (roughly equivalent to an undergraduate major), with an average grade of at least a mid-B in the applicant’s overall program and at least an A- in the applicant’s philosophy courses. In certain cases, an applicant whose background in philosophy is deficient may be admitted to the MA program but be required to take one or two additional courses, possibly at the undergraduate level.
- Applicants must submit the following supporting documents with their applications:
  - One official transcript of the applicant’s academic record from each university attended, complete to the time of application.
  - A statement of about 300 words, indicating the applicant’s areas of interest in philosophy at the graduate level.
  - Two letters of reference from philosophy instructors, written on the appropriate forms.
  - One sample of the applicant’s written work in philosophy (written in English or French); e.g., a term paper, not exceeding 20 pages. It should be as recent as possible and should provide evidence of ability to study philosophy at an advanced level.
  - Applicants whose primary language is not English and who are not graduates of a university whose language of instruction is English must complete the Test of English as a Foreign Language (TOEFL) with the following minimum scores:
    - Paper-based TOEFL exam: 600 and 5 on the TWE
    - Internet-based TOEFL exam: 100/120 and 22/30 on the writing and speaking sections.
      Equivalent results in some other recognized test of English-language facility are acceptable.
- The submission deadline for all complete applications and supporting documents, including letters of reference, is January 7.
Program Requirements

- The program consists of a minimum of 4.0 full-course equivalents (FCEs) in philosophy. At least 1.0 FCE must be in the history of philosophy and at least 1.0 FCE must be in the problems of philosophy. In the first session and again in the second, one graduate half course will be designated for MA students only. All full-time MA students will be required to take these courses. (One will be in the broad area of ethics/politics and the other in the broad area of metaphysics and epistemology. Either could be historical.)
- Each MA student is assigned an advisor, who will recommend a suitable program of philosophy courses. The student’s choice of courses must be approved by the department.
- It is possible for a full-time student to complete all requirements for the MA degree in the fall and winter sessions; however, the department encourages students to take no more than 3.0 FCEs during the fall and winter sessions and to complete the last course during the summer session.
- Part-time enrolment in the MA program is permitted.

Normal Program Length: 3 sessions full-time; 5 years part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- Students approved by the department are admitted under the General Regulations of the School of Graduate Studies via one of two routes:
  - From a bachelor's degree. Applicants should have an appropriate bachelor's degree from a recognized university; a strong background in philosophy (roughly equivalent to an undergraduate major); and an average grade of at least a B+ in the overall program and at least an A- in philosophy courses.
  - From a master's degree. Applicants should have a master's degree in philosophy from a recognized university with an average grade of at least an A- in the applicant's overall program. Applicants must satisfy the department that they are capable of independent research in philosophy at an advanced level.
- Applicants must submit the following supporting documents with their applications:
  - One official transcript of the applicant's academic record from each university attended, complete to the time of application.
  - A statement of about 300 words, indicating the applicant's areas of interest in philosophy at the graduate level.
  - Two letters of reference from philosophy instructors, written on the appropriate forms.
  - One sample of the applicant’s written work in philosophy (written in English or French); e.g., a term paper not exceeding 20 pages. It should be as recent as possible and should provide evidence of the student’s capability to study philosophy at an advanced level.
  - The results of the Graduate Record Exam (GRE) taken within the preceding 18 months. If this requirement imposes an undue burden on an overseas applicant, it can be waived at the discretion of the Graduate Coordinator.
- Applicants whose primary language is not English and who are not graduates of a university whose language of instruction is English must complete the Test of English as a Foreign Language (TOEFL) with the following minimum scores:
  - Paper-based TOEFL exam: 600 and 5 on the TWE
  - Internet-based TOEFL exam: 100/120 and 22/30 on the writing and speaking sections. Equivalent results in some other recognized test of English-language facility are acceptable.

- Students enrolled in graduate programs in philosophy in other universities are welcome to apply to spend a year studying at the University of Toronto. Please direct any inquiries to the Graduate Coordinator.
- Students who wish to take one or more of the courses offered by the department as non-degree students should apply for admission as Special Students. The application procedures and deadlines are the same for both the MA and PhD programs.
- The submission deadline for all complete applications and supporting documents, including letters of reference, is January 7.

Program Requirements

PhD students pursue a program of study and research approved by the department. The PhD program has two options: a five-year option and a four-year option. The five-year option is the most common and is the only direct-entry option for students with a bachelor's degree (or equivalent). There are two main differences between these PhD options. The five-year option provides five years of funding rather than four, and has an extra year of courses. The program requirements are summarized below. Please see the departmental website for full details.
Course Requirements.

- Students with a bachelor's degree who are taking the five-year option must take a minimum of 6.0 FCEs in philosophy, with an average grade of at least an A-. At least 2.0 FCEs must be in the history of philosophy and at least 2.0 FCEs must be in the problems of philosophy. To remain in good standing, students must complete 3.0 FCEs with an A- average by the end of their first academic year, and 6.0 FCEs with an A- average by the end of their second academic year.
- Students with a master's degree who are taking the four-year option must complete a minimum of 3.0 FCEs in philosophy, with a minimum A- average by the end of their first academic year. At least 1.0 FCE must comprise History of Philosophy courses and at least 1.0 must comprise Problems of Philosophy courses.
- All students must complete the proseminar in philosophy (PHL 1111H) during the fall session of their first year. This will count as 0.5 FCE toward the number of required courses.
- With the department's permission, a student may replace up to 1.0 FCE in philosophy with graduate courses offered by another department, provided that the courses are required for the student's planned research.

Breadth Requirement. A student must demonstrate competence in at least six areas of philosophy, including the following:

- Each of the following topics in the problems of philosophy:
  - Contemporary issues in metaphysics, epistemology, and philosophy of science
  - Contemporary issues in values (ethics, politics, aesthetics, and philosophy of religion)
  - Contemporary issues in mind, language, and logic
- The remaining three required areas must be chosen from the periods in the history of philosophy specified below:
  - ancient
  - medieval
  - seventeenth–eighteenth centuries
  - nineteenth century
  - twentieth century
- Competence in any area is normally established by successful completion of a graduate 0.5 FCE in that area.
- A student must also demonstrate competence in logic (defined as proficiency in first-order symbolic logic with identity). This competence is expected of all students prior to beginning doctoral studies. Where this is not the case, competence must be acquired as a supplement to the required number of courses and be demonstrated to the satisfaction of the department by the time the qualifying requirement is met.

Qualifying Requirement. After completing all course requirements, the student selects a thesis committee that will oversee his or her academic progress through the final thesis defence. The student meets with the committee to discuss a tentative thesis topic, construct an appropriate research reading list, and receive guidance on writing a qualifying paper. After submitting the qualifying paper and making any required adjustments to the reading list, the student takes a two-part (written and oral) qualifying examination based on the paper and the reading list. The paper will be submitted and written oral exams taken four to six weeks later, during the winter session of the third year of the five-year PhD, or the second year of the four-year PhD.

Research Tools Requirement. Each PhD student must demonstrate competence in at least one research tool. A research tool may be one of the following: reading knowledge of a language other than English, familiarity with a discipline other than philosophy (e.g., linguistics, psychology, or mathematics), mastery of research methods not typical in philosophy (e.g., statistical methods), and so on. The research tool will be determined by the Graduate Coordinator in consultation with the student's thesis committee.

Thesis. A candidate must submit a thesis on an approved subject and defend the thesis at a doctoral final oral examination. The department is not obligated to provide supervision in areas falling outside the competency, interest, or availability of its graduate faculty.

Residence. Students must be registered as full-time on-campus students and must reside in sufficient geographical proximity to enable them to fulfill the course, breadth, qualifying, and language requirements set by the department in a smooth and timely fashion. They are also expected to participate fully in departmental activities. While writing the thesis, candidates are expected to be in residence, with the exception of absence for research.

Normal Timeline through the Program. By the end of their first year of registration, students with a master's degree (four-year option) should have completed all the course requirements for the degree. By the end of the second year of registration, students with a bachelor's degree (five-year option) should have completed all course requirements for the degree. By the end of the following year of registration, all students should have satisfied any remaining breadth requirements, selected a thesis committee, and passed the qualifying examination. (These are general deadlines; consult the department's web page for specific dates and further details.) Thereafter, the candidate selects a
member of the thesis committee to be the thesis supervisor and begins work on the thesis, which he or she is expected to finish within two years.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

### Combined Juris Doctor/Doctor of Philosophy Program

#### Minimum Admission Requirements
- Entry to the program requires admission to both the PhD program in Philosophy and the JD program in Law. Separate applications are required.

#### Program Requirements
- For details, visit the Faculty of Law’s website at www.law.utoronto.ca.
- Year 1: Students complete the first year of the law curriculum.
- Year 2: Students complete the remaining requirements for the JD degree and begin coursework required for the PhD. Note that some of the courses completed in fulfillment of PhD requirements will be counted for credit towards the JD and vice versa.
- By the end of year four, in the case of someone admitted on the basis of a master’s degree, otherwise by the end of year five, a student should have completed any remaining course requirements for the PhD degree, satisfied the breadth requirement, and passed the qualifying exam. The candidate then begins work on the thesis.
- During years one and two, students are registered as full-time law students; subsequently, they are registered as full-time doctoral students and are eligible for graduate funding.

**Normal Program Length:** 4 years full-time; 5 years direct-entry

**Time Limit:** 6 years full-time; 7 years direct-entry

### Course List

Not all courses are offered every year. Please consult the department’s Graduate Bulletin, which lists the courses the department will offer this year as well as those offered by other departments that may be taken for philosophy credit.

#### Required Course for PhD Students

PHL 1111H Proseminar

#### Reading Courses

PHL 1000H,Y Reading Course
PHL 1001H,Y Reading Course
PHL 1500H,Y Reading Course

### History of Philosophy

#### Ancient Philosophy

- PHL 2000H Early Greek Philosophy
- PHL 2002H Plato
- PHL 2003H Aristotle
- PHL 2005H Seminar in Plato
- PHL 2007H Seminar in Aristotle
- PHL 2009H Seminar in Greek Philosophy
- PHL 2010H Late Greek Philosophy

#### Eastern Philosophy

- PHL 2015H Confucianism
- PHL 2016H Taoism: Philosophy and Religion
- PHL 2017H Buddhism in China

#### Medieval Philosophy

- PHL 2020H Augustine
- PHL 2030H Aquinas
- PHL 2032H Seminar in Aquinas
- PHL 2040H Medieval Philosophy
- PHL 2041H Seminar in Medieval Philosophy
- PHL 2042H Topics in Medieval Philosophy
- PHL 2045H Late Medieval Philosophy

#### Early Modern Philosophy

- PHL 2050H Descartes
- PHL 2051H The Rationalists
- PHL 2054H Hume
- PHL 2055H The Empiricists
- PHL 2057H Seminar in Seventeenth- and Eighteenth-Century Philosophy
- PHL 2062H Kant’s Critique of Pure Reason
- PHL 2063H Kant’s Ethics
- PHL 2064H Seminar in Kant

#### Nineteenth- and Twentieth-Century Philosophy

- PHL 2076H Hegel
- PHL 2078H Kierkegaard
- PHL 2079H Marxist Philosophy
- PHL 2084H Seminar in Nineteenth-Century Continental Philosophy
- PHL 2085H Husserl
- PHL 2088H Heidegger
- PHL 2089H Seminar in Twentieth-Century Continental Philosophy
- PHL 2090H Hermeneutics
- PHL 2091H The Critical Theory of Society
- PHL 2092H Pragmatism
- PHL 2093H Frege
- PHL 2094H Russell
- PHL 2095H Wittgenstein
- PHL 2096H Seminar in Analytic Philosophy
- PHL 2097H Topics in Analytic Philosophy
- PHL 2099H Bernard Lonergan
Degree and Diploma Programs by Graduate Unit

Problems of Philosophy
Metaphysics and Epistemology
PHL 2100H Metaphysics
PHL 2101H Seminar in Metaphysics
PHL 2105H Topics in Metaphysics
PHL 2110H Epistemology
PHL 2111H Seminar in Epistemology
PHL 2115H Topics in Epistemology
PHL 2119H Philosophical Foundations of Multidisciplinary Studies
PHL 2171H Philosophy of Mind
PHL 2172H Seminar in Philosophy of Mind
PHL 2174H Freud's Philosophy of Mind
PHL 2181H Philosophy of Religion
PHL 2182H Seminar in Philosophy of Religion

Logic and the Philosophy of Language
PHL 2120H Introductory Mathematical Logic
PHL 2122H Advanced Logic
PHL 2124H Seminar in Logic
PHL 2125H Many Valued and Modal Logics
PHL 2126H Philosophy of Logic
PHL 2127H Philosophy of Mathematics
PHL 2128H Decision and Game Theory
PHL 2130H Topics in Informal Logic
PHL 2190H Philosophy of Language
PHL 2191H Seminar in the Philosophy of Language
PHL 2197H Foundations of Computation and Information

Value Theory
PHL 2131H Ethics
PHL 2132H Seminar in Ethics
PHL 2133H Topics in Ethics
PHL 2135H Metaethics
PHL 2141H Political Philosophy
PHL 2142H Seminar in Political Philosophy
PHL 2143H Social Philosophy
PHL 2144H Seminar in Social Philosophy
PHL 2145H Bioethics
PHL 2146H Topics in Bioethics
JVP 2147H Environmental Philosophy
PHL 2148H Philosophy of Law
JPL 2149H Legal Theory
PHL 2151H Aesthetics
PHL 2152H Philosophy and Teaching

Feminist Philosophy
JPW 2118H Philosophical Foundations of Women's Studies
PHL 2140H Feminist Philosophy

Philosophy of Science
JPH 2192H Philosophy of Science
JPH 2194H Topics in the History of the Philosophy of Science
PHL 2195H Philosophy of Biology
PHL 2196H Topics in the Philosophy of Science

Miscellaneous
PHL 2199H Seminar in the Philosophy of Science

Graduate Faculty

Full Members
Ainslie, Donald - BSc, MA, PhD
Allen, Derek - PhD
Barney, Rachel - BA, PhD
Berkovitz, Joseph - BSc, MA, PhD
Black, Deborah - BA, MA, PhD
Boyle, Joseph - BA, PhD
Brown, James - BA, MA, PhD
Clark, Philip - DPhil
Comay, Rebecca - BA, MA, PhD
Cunningham, Frank - BA, MA, PhD
Dickie, Imogen - BPhil, BA, DPhil
Dyzenhaus, David - BA, LLB, PhD
Franks, Paul - AB, MA, PhD
Gerson, Lloyd - BA, MA, PhD
Gibbs, Robert - BA, MA, PhD
Gooch, Paul William - BA, MA, PhD
Heath, Joseph - BA, MA, PhD
Hellie, Benjamin - BA, PhD
Howson, Colin - BSc, PhD
Hurka, Thomas - BPhil, BA, DPhil
Hutchinson, Douglas - BA, BPhil, DPhil
Inwood, Brad - BA, MA, PhD, Fell Royal Society Canada
Kat, Bernard - BA, MA, PhD
King, Peter - AB, PhD
Kingwell, Mark - AB, BA, AM, MPH, PhD
Kremer, Philip - BS, PhD
Lange, Lynda - AB, MA, PhD
Matthen, Mohan - PhD
Misak, Cheryl - BA, PhD
Morgan, Kathryn - BA, MA, MEd, PhD
Morrison, Margaret - BA, MA, PhD
Mullin, Amy - BA, PhD
Nagel, Jennifer - DPhil
Pickave, Martin - BA, MA, PhD
Raffman, Diana - PhD (Director of Graduate Studies)
Rattan, Gurpreet - AM, MPH, DPhil
Ripstein, Arthur S - BA, Phm, LLM, PhD (Chair and Graduate Chair)
Rozemond, Marleen - BA, PhD
Seager, William Edward - BA, MA, PhD
Sedivy, Sonia - BA, PhD
Shen, Vincent Tsing-song - PhD
Smith, Brian Cantwell - BS, MS, PhD
Stefanovic, Ingrid - BA, MA, PhD
Tenenbaum, Sergio - MA, PhD
Thompson, Evan - AB, MA, PhD
Walsh, Denis - BA, MPH, PhD
Whiting, Jennifer - BA, MA, PhD
Wilson, Jessica Marie - BM, PhD
Yi, Byeong-Uk - PhD

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Degree and Diploma Programs by Graduate Unit

Members Emeriti
Canfield, John - BA, MA, PhD
De Sousa, Ronald - BA, PhD
Goldstick, Daniel - BA, BPhil, DPhil
Gombay, André - BA, BPhil, MA, PhD
Hacking, Ian - BA, BA, MA, PhD
Robinson, Thomas - BA, BLitt, MA
Sumner, L Wayne - BA, MA, PhD
Urquhart, Alasdair - MA, MA, PhD

Associate Members
Hubner, Karolina - BA, MA, PhD
Moreau, Stephanie Sophia - BPhil, BA, JD, PhD
Schloesser, Ulrich - PhD
Sepielli, Andrew - AB, JD, PhD
Smolin, Lee - PhD
Weisberg, Jonathan - PhD
Overview

The Graduate Department of Physical and Environmental Sciences offers opportunities for graduate studies in Environmental Science, leading to the degrees of Master of Environmental Science (MEnvSc) and Doctor of Philosophy (PhD) in Environmental Science. These programs provide an interdisciplinary approach to environmental science that includes internship or research opportunities. Faculty members are cross-appointed from several departments including physical sciences, biological sciences, engineering, health sciences, forestry and social sciences. Research and teaching are focused on the interfaces between traditional disciplines in dealing with fundamental scientific issues. Research is clustered into six major categories:

1. Contaminant Flux Through Surface and Subsurface Environmental and Biochemical Cycles
2. Urban Geoscience
3. Remediation and Restoration of Degraded Environmental Systems
4. Great Lake Ecosystems
5. Climate Change and the Environment
6. Environmental Science and Transitional Economies

Minimum Admission Requirements

- Students are expected to satisfy all requirements for entry into the School of Graduate Studies at the University of Toronto within a competitive selection process. Applicants educated outside Canada should pay particular attention to the English language competency requirements.
- An appropriate bachelor’s degree from a recognized university, either in science or engineering, with a minimum mid-B grade average in the last two years of the undergraduate program. Ideal applicants will have a science background consisting of two half courses or one full course in each of chemistry, physics, calculus, and biology.
- Applicants must submit a written statement explaining their objectives for entering the program and the suitability of their background. Appropriate postgraduate work experience, such as in industry, will be considered as part of the admission application.

Program Requirements

- In all three streams, coursework consists of 5.5 full-course equivalents (FCEs).
- It is anticipated that students will complete all instructional courses in two sessions and will complete field and research-focused courses as well as the internship during the summer.

Normal Program Length: 3 sessions full-time
Time Limit: 3 years full-time; 6 years part-time

Course List

- EES 1100H Advanced Seminar in Environmental Science
- EES 1101Y Research Paper in Environmental Science
- EES 1102H Analytical Chemistry for Geoscientists
- EES 1103H Air and Water Quality Sampling and Monitoring
Degree and Diploma Programs by Graduate Unit

EES 1104H Detection of Microorganisms in the Environment
EES 1105H Soil Contamination Chemistry
EES 1106H Environmental Challenges in Urban Areas
EES 1107H Remediation Methods
EES 1108H Environmental Science Field Camp
EES 1109H Advanced Techniques in Geographic Information Systems
EES 1110H Sediment and Contaminant Transport in Aquatic Systems
EES 1111H Freshwater Ecology and Biomonitoring
EES 1112H Boundary Layer Climates and Contaminant Fate
EES 1113H Groundwater Hydrochemistry and Contaminant Transport
EES 1114H Directed Readings in Environmental Science I
EES 1115H Directed Readings in Environmental Science II
EES 1116Y Internship
EES 1117H Climate Change Impact Assessment
EES 1118H Fundamentals of Ecological Modelling
EES 1119H Quantitative Environmental Analysis
EES 1120H The Dynamics of Contaminant Dispersal in Fluids
EES 1121H Modelling the Fate of Organic Chemicals in the Environment
EES 1122H Global Environmental Security and Sustainable Development
EES 1123H Environmental Regulations
EES 1124H Environmental Project Management
EES 1125H Contaminated Site Remediation
EES 1126H Environmental Tracers
EES 1127H Geomicrobiology and Biogeochemistry
EES 1128H Biophysical Interactions in Managed Environments
EES 1701H Environmental Legislation and Policy
EES 1704H Environmental Risk Assessment

Program Requirements

- The execution of an original piece of research in environmental science carried out under faculty supervision and presented in thesis form. The program requires successful defence of a thesis proposal, a departmental oral examination of the completed thesis, and a doctoral final oral examination carried out under the auspices of the School of Graduate Studies involving examination by an appropriate at-arms-length examiner.
- A total of 2.0 full-course equivalents (FCEs) as follows: a mandatory 0.5 FCE (ENV 2200H Advanced Seminar on Environmental Research) plus 1.5 FCEs from an approved course list in the graduate program. The courses are required to provide background for the student’s research. Courses selected must be approved by the Graduate Coordinator/Program Director.
- Students may apply to take a number of PhD-level courses taught by the core faculty both within the Department of Physical and Environmental Sciences (DPES) and outside DPES that can be considered for the PhD degree (see examples in the Course List section below) as part of their 1.5 FCEs credits for the degree. However, all courses for PhD degree credit must be approved by the Graduate Coordinator/Program Director.
- During admission, if a student’s preparedness is assessed as being insufficient, the student will be required to take additional courses. It is expected that graduates of the MEnvSc research stream, or other graduate programs listed above, normally will have sufficient background at the time of admission.
- The degree requirements consist of successful completion of coursework, a thesis proposal, and a thesis.
- The degree program has been designed so that it can be completed within:
  - **four years** for students who have completed a related master's degree.
  - **five years** from the start of enrolment in the MSc program for students transferring from the master's program.
  - **five years** for direct-entry students from a bachelor's program.
- Progress through the PhD program for students admitted with a master’s degree:
  - **Year I**: complete coursework
  - **Year II**: complete and defend thesis proposal; start thesis research
  - **Year III**: research and thesis writing
  - **Year IV**: thesis writing and defense

Doctor of Philosophy

Minimum Admission Requirements

Students may be accepted into the PhD program through one of three routes:

1. Following completion of the MEnvSc degree, an MSc degree in environmental science, or a related discipline, or the MASc degree in environmental engineering or related discipline, or equivalent from a recognized university with a minimum of B+ average in all work completed in the master's program.
2. By requesting transfer from a suitable master's program (see above); students may reclassify from the master's program after 12 months of full-time study.
3. In the case of exceptional students, by direct entry, that is, after completing an honours BSc degree in a bachelor's program in a related discipline with a minimum UofT average of A- or equivalent.
Degree and Diploma Programs by Graduate Unit

Physical and Environmental Sciences

Normal Program Length: 4 years full-time; 4 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List

Core Course
EES 2200H Advanced Seminar in Environmental Science

Elective Courses
EES 1102H Analytical Chemistry for Geoscientists
EES 1103H Air and Water Quality Sampling and Monitoring
EES 1104H Detection of Microorganisms in the Environment
EES 1105H Soil Contamination Chemistry
EES 1106H Environmental Challenges in Urban Areas
EES 1107H Remediation Methods
EES 1109H Advanced Techniques in Geographic Information Systems
EES 1110H Sediment and Contaminant Transport in Aquatic Systems
EES 1111H Freshwater Ecology and Biomonitoring
EES 1112H Boundary Layer Climates and Contaminant Fate
EES 1113H Groundwater Hydrochemistry and Contaminant Transport
EES 1117H Climate Change Impact Assessment
EES 1118H Fundamentals of Ecological Modelling
EES 1119H Quantitative Environmental Analysis
EES 1120H The Dynamics of Contaminant Dispersal in Fluids
EES 1121H Modeling the Fate of Organic Chemicals in the Environment
EES 1122H Global Environmental Security and Sustainable Development
EES 1126H Environmental Tracers
EES 1127H Geomicrobiology and Biogeochemistry
EES 1128H Biophysical Interactions in Managed Environments
EES 2201H Advanced Readings in Environmental Science

Graduate Faculty

Full Members
Abbatt, Jonathan - BSc, PhD
Allen, D Grant - BASc, MASc, PhD
Archontitsis, Georgios - BSc, MSc, DSCA
Boonstra, Rudy - BSc, PhD
Campbell, Malcolm - DPhil
Chen, Jing - BSc, PhD
Cowling, Sharon - BSc, MSc, PhD
Desloges, Joseph - BES, MSc, PhD
Diamond, Miriam - MSc, MSc, PhD
Donaldson, D. James - PhD
Edwards, Elizabeth - BEng, PhD
Evans, Gregory - PhD
Eyles, Nicholas - BSc, MSc, PhD, DSc
Ferris, Grant - BSc, PhD
Fulthorpe, Roberta - BSc, MSc, PhD
Gough, William - BSc, MSc, PhD
Howard, Kenneth - BSc, MSc, PhD
Isaac, Marney Elizabeth - BS, MES, PhD
Kronzucker, Herbert - PhD
Miall, Andrew - BSc, PhD
Mitchell, Carl - PhD
Sherwood Lollar, Barbara - PhD
Simpson, Andre - BSc, PhD
Simpson, Myrna - BS, DPhil
Wania, Frank - MPH, PhD
Wells, Mathew - BS, DPhil
Williams, D Dudley - DipEd, BSc, MSc, PhD, DSc
Wortmann, Ulrich - BSc, MSc, PhD

Associate Members
Dittrich, Maria B. - BES, MSc, PhD
He, Yuhong - PhD
Kerman, Kagan - BCScPhm, MSc, ScD
Faculty Affiliation

Physical Therapy

Degree Programs Offered

Physical Therapy – MScPT

Overview

The Master of Science in Physical Therapy (MScPT) is a 24-month professional program leading to entry to practice. The program is accredited by Physiotherapy Education Accreditation Canada. Graduates will be eligible to write the Physiotherapy Competency Examination (PCE), administered by the Canadian Alliance of Physiotherapy Regulators, which qualifies them to practice physical therapy in Canada. Graduates will be eligible to register in the Canadian Physiotherapy Association and the Colleges of Physiotherapy in all Canadian provinces. The MScPT program is also accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association, enabling graduates to apply for licensure in the United States.

The Master of Science in Physical Therapy, Advanced-Standing Option is a professional graduate degree program that allows eligible physical therapists with a BScPT from a Canadian university to acquire the master’s degree in an online environment with two on-campus residencies. There is a strong focus on research and best practices integrated throughout the program.

Contact and Address

Web: www.physicaltherapy.utoronto.ca
Email: physther.facmed@utoronto.ca
Telephone: (416) 946-8641
Fax: (416) 946-8562

Department of Physical Therapy
University of Toronto
Room 160, 500 University Avenue
Toronto, Ontario M5G 1V7
Canada

Degree Programs

Physical Therapy

Master of Science in Physical Therapy

Minimum Admission Requirements

24-month Program

- Applicants to the 24-month MScPT program are considered if they hold an appropriate bachelor’s degree with high academic standing from a recognized university, with a minimum mid-B average in the final year.
- Prerequisite courses including human vertebrate physiology (1.0 full-course equivalent [FCE]), life and/or physical sciences (1.0 FCE), social sciences, and/or humanities and/or languages (1.0 FCE); and statistics or research methods (0.5 FCE).
- Facility in the English language must be demonstrated by all applicants educated outside Canada whose primary language is not English and who graduated from a university where the language of instruction and examination was not English. The department prefers the TOEFL, with minimum scores of:
  - Paper-based test: 600 with 5 on the TWE and 50 on the TSE.
  - Internet-based test: 100/120 overall and 22/30 on the writing and speaking sections.
- The application deadline is early January; deadline for transcripts is end of January.
- Refer to the departmental website for additional information.

Advanced-Standing Option

- Applicants to the 12-month MScPT Advanced-Standing Option who are eligible physical therapists will be considered if they have completed an appropriate BScPT program at a Canadian university with a minimum mid-B average in the final year.
- Applicants must be registered as independent practitioners with a relevant physiotherapy regulating body and/or have completed the PCE and are awaiting results.
- Refer to the departmental website for additional information.

Program Requirements

24-month Program

- Participate in 12 units that includes lectures, seminars, tutorials, laboratories, case-based learning, structured clinical sessions, structured independent study units, and clinical internships. Research
Degree and Diploma Programs by Graduate Unit

Physical Therapy

principles and practices are integrated into the curriculum. Students are required to complete all units.

- Complete a group research project.
- Demonstrate proficiency in key areas of professional practice, including research practice, prior to graduation.

**Advanced-Standing**

- Students complete the program in an online environment with two mandatory on-campus residencies.
- Attend unit 6 (0.75 FCE) and unit 12 (1.0 FCE) in on-campus residency periods.
- Complete unit 10, a group research project, via online format (0.75 FCE).
- Complete an elective course (0.5 FCE) either online or on-campus.

**Normal Program Length**: 6 sessions full-time; 3 sessions advanced-standing

**Time Limit**: 3 years full-time; 1 year advanced-standing

**Course List**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHT 1001H</td>
<td>Introduction to Professional Physical Therapy Practice, Evaluation and Research</td>
</tr>
<tr>
<td>PHT 1002Y</td>
<td>Cardiorespiratory and Exercise Physical Therapy Practice</td>
</tr>
<tr>
<td>PHT 1003Y</td>
<td>Musculoskeletal Physical Therapy Practice</td>
</tr>
<tr>
<td>PHT 1004Y</td>
<td>Clinical Internship—Cardiorespiratory (Honours/Pass/Fail)</td>
</tr>
<tr>
<td>PHT 1005Y+</td>
<td>Neurological Physical Therapy Practice</td>
</tr>
<tr>
<td>PHT 1006Y</td>
<td>Research and Program Evaluation for Physical Therapy Practice I</td>
</tr>
<tr>
<td>PHT 1007Y</td>
<td>Clinical Internship—Neuroscience (Honours/Pass/Fail)</td>
</tr>
<tr>
<td>PHT 1008Y+</td>
<td>Advanced Neuromusculoskeletal Physical Therapy Practice</td>
</tr>
<tr>
<td>PHT 1009Y</td>
<td>Clinical Internship—Musculoskeletal II (Honours/Pass/Fail)</td>
</tr>
<tr>
<td>PHT 1010Y</td>
<td>Research and Program Evaluation for Physical Therapy Practice II (Honours/Pass/Fail)</td>
</tr>
<tr>
<td>PHT 1011Y</td>
<td>Clinical Internship—Selective (Honours/Pass/Fail)</td>
</tr>
<tr>
<td>PHT 1012Y</td>
<td>Research and Program Evaluation for Physical Therapy Practice III</td>
</tr>
<tr>
<td>PHT 1014Y</td>
<td>Clinical Internship—Musculoskeletal (Honours/Pass/Fail)</td>
</tr>
</tbody>
</table>

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.

**Selective Course**

PHT 1015Y Clinical Internship—Physical Therapy Practice (Honours/Pass/Fail) (PHT 1015Y may replace any one of PHT 1004Y, PHT 1007Y, PHT 1009Y, PHT 1011Y, and PHT 1014Y)

**Graduate Faculty**

**Full Members**

Agur, Anne - BSc, MSc, PhD
Berg, Katherine - BSc(PT), MSc, PhD
Brooks, Dina - BSc(PT), MSc, PhD
Cott, Cheryl - DIPP, BPT, MSc, PhD
Davis, Alleen - BSc(PT), MSc, PhD
Hirdes, John - MD
Jaglal, Susan - BSc, MSc, PhD
McIlroy, William - BSc, PhD
Morshead, Cindi Marie - BS, PhD
Perry, Stephen - BS, MSc, PhD
Verrier, Mary (Molly) - DipOT, MHS
Wright, Virginia - BSc, MSc
Yoshida, Karen - BSc, BPHE, MSc, PhD
Zabjek, Karl - BSc, MCLSC, PhD

**Associate Members**

Davies, Robyn - DIPP, BHSC(P/T)
Ellerton, Cindy - BSc(PT), MSc
Evans, Catherine - BSc, MSc, PhD (Coordinator of Graduate Studies)
Gibson, Barbara - MSc, BMR(P/T), PhD
Hunter, Judith - BPT, MSc, PhD
Koeberle, Paulo - BS, PhD
Landry, Michel - BSc(PT), MSc(PT), PhD
Longmuir, Patricia - BPHE, MSc
Mathur, Sunita - BSc(PT), MSc(PT), PhD
McEwen, Sara - BSc(PT), BSc(PT), MS, MSc, PhD
Moody, Kim - BHSC(P/T)
Mori, Brenda - BSc(PT), MSc
Nixon, Stephanie - BHSC(P/T), BA, PhD
Nussbaum, Ethne - BSc, PhD
O'Brien, Kelly - BSc(PT), BS, PhD
Razmjou, Helen - BSc(PT), MSc(PT)
Salbach, Nancy - BSc(PT), BS, MSc, PhD
Switzer-Mcintyre, Sharon - BSc, BPHE, PhD

www.sgs.utoronto.ca/calendar/2011-12
Physics

Faculty Affiliation
Arts and Science

Degree Programs Offered
Physics – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Astrophysics
   • Physics, MSc
2. Biomedical Engineering
   • Physics, MSc, PhD
3. Environmental Studies
   • Physics, MSc, PhD
4. Geology and Physics
   • Physics, MSc, PhD
5. Optics
   • Physics, MSc

Overview
The Department of Physics offers graduate programs leading to the Master of Science and the Doctor of Philosophy degrees. The department carries out research in experimental and theoretical physics in the following fields: atmospheric physics, geophysics, quantum optics, condensed matter physics, subatomic physics and astrophysics, and biophysics. The department has close ties with the Canadian Institute for Theoretical Astrophysics. This association enables our students to work and consult with leading theorists who are appointed to, or who are visiting, CITa.

Students are accepted under the SGS General Regulations. The department provides financial support for one year of the MSc and four years of the PhD program (five years for direct-entry PhD).

Contact and Address
Web: www.physics.utoronto.ca
Email: grad@physics.utoronto.ca
Telephone: (416) 978-2945
Fax: (416) 978-1547

Department of Physics
University of Toronto
Room 315, McLennan Physical Labs
Toronto, Ontario M5S 1A7
Canada

Degree Programs

Physics

Master of Science

Minimum Admission Requirements
• An appropriate bachelor's degree with a final-year average equivalent to at least a University of Toronto mid-B.
• Proof of English language facility for applicants whose first language is not English.

Program Requirements
• Students normally complete program requirements in one of three ways:
  ○ Option 1: Coursework plus MSc Research Report: graduate lecture courses (3.0 full-course equivalents [FCEs]) and a Research Report, which consists of a 6000-series research course appropriate to the field of specialization (1.0 FCE) and PHY 3400Y (1.0 FCE).
  ○ Option 2: Coursework plus MSc Research Project: graduate lecture courses (2.0 FCEs), a 6000-series research course appropriate to the field of specialization (1.0 FCE), and a Research Project, which consists of a 7000-series seminar course appropriate to the field of specialization (1.0 FCE) and PHY 3400Y (1.0 FCE).
  ○ Option 3: Coursework plus MSc Research Thesis: graduate lecture courses (2.0 FCEs) and a thesis. Selection of the program is made by the student and faculty advisor in consultation with the Associate Chair.
• All MSc students are expected to attend the weekly general colloquium conducted by the department.
• The MSc program is full-time.
• Residence requirement is one year.

Normal Program Length: 3 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements
• An appropriate University of Toronto master’s degree or its equivalent with an average of at least B+ or demonstrated comparable research competence.
• Proof of English facility for applicants whose first language is not English.
• Outstanding applicants may be considered directly from undergraduate programs. Normally, these
applicants will have an undergraduate average of A or higher.

Program Requirements

- The core of the PhD program is an original investigation, the results of which are embodied in a thesis. Lecture courses constitute a subsidiary but important part of the program. Consult the department for details.
- Complete 4.0 FCEs graduate lecture courses and a thesis. Course credit will normally be given toward the PhD for all graduate lecture courses taken during a master’s program in this department. Students who have completed an appropriate MSc elsewhere and are entering the PhD program will generally be given a course credit of up to 2.0 FCEs graduate lecture courses towards their PhD course requirement.
- Complete a qualifying oral examination. Students entering the PhD program with a master's degree must complete the qualifying examination within 8 months; students entering with a bachelor's degree must complete the examination within 20 months. Students who fail at the first attempt have the opportunity to take the examination again within a time period specified by the examination committee.
- All PhD students are expected to attend the weekly general colloquium conducted by the department.
- The PhD program is full-time.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List

All courses are not given every year. Please check the departmental brochure or website for course availability.

Introductory Courses

PHY 1460H Nonlinear Physics
PHY 1483H Relativity Theory I
PHY 1484H Relativity Theory II
PHY 1485H Advanced Classical Optics
PHY 1487H Quantum Theory of Solids I
PHY 1489H Introduction to High Energy Physics
PHY 1491H Current Interpretations of Quantum Mechanics
PHY 1492H Physics of the Earth
PHY 1493H Seismology
PHY 1494H Geophysical Imaging: EM & Potential Fields
PHY 1495H Geophysical Research Methods
PHY 1496H Experimental Applied Geophysics
PHY 1498H Introduction to Atmospheric Physics

General Courses

PHY 1500H Statistical Mechanics
PHY 1510H Electromagnetism
PHY 1520H Quantum Mechanics
PHY 1530H Fluid Mechanics
PHY 1540H Mathematical Methods in Physics
PHY 1600H Effective Communication for Physicists

Specialized Courses

PHY 2108H Special Topics in Physics I
PHY 2109H Special Topics in Physics II
PHY 2202H Atomic and Molecular Physics
PHY 2203H Quantum Optics I
PHY 2204H Quantum Optics II
PHY 2205H Special Topics in Quantum Optics I
PHY 2206H Special Topics in Quantum Optics II
PHY 2208H Nonlinear Optics
PHY 2211H Quantum Information Theory
PHY 2212H Entanglement Physics
PHY 2305H Quantum Theory of Solids II
PHY 2313H Special Topics in Condensed Matter Physics I
PHY 2314H Special Topics in Condensed Matter Physics II
PHY 2315H Advanced Statistical Mechanics
PHY 2321H Many Body Physics I
PHY 2322H Many Body Physics II
PHY 2401H Cosmology and Black Holes
PHY 2403H Quantum Field Theory I
PHY 2404H Quantum Field Theory II
PHY 2405H Experimental High Energy Physics
PHY 2406H Special Topics in Particle Physics I
PHY 2407H Special Topics in Particle Physics II
PHY 2408H Phenomenology of the Standard Model
PHY 2502H Climate System Dynamics
PHY 2504H Advanced Atmospheric Dynamics
PHY 2505H Atmospheric Radiative Transfer and Remote Sounding
PHY 2506H Data Assimilation and Retrieval Theory
PHY 2509H Special Topics in Atmospheric Physics I
PHY 2510H Special Topics in Atmospheric Physics II
PHY 2601H Special Topics in Geophysics I
PHY 2602H Special Topics in Geophysics II
PHY 2603H Inverse Theory
PHY 2604H Planetary Dynamo Theory
PHY 2605H Exploration Seismology
PHY 2609H Planetary Physics
PHY 2701H Biological Physics
JGP 4170H Geotectonics

Report Course for MSc Students

PHY 3400Y+ Selected Topics in Physics

Seminar Courses

PHY 7001Y+ Atmospheric Physics Seminar
Degree and Diploma Programs by Graduate Unit

PHY 7002Y+ - Biophysics Seminar
PHY 7003Y+ - Condensed Matter Physics Seminar
PHY 7004Y+ - Geophysics Seminar
PHY 7005Y+ - Quantum Optics Seminar
PHY 7006Y+ - Subatomic Physics and Astrophysics Seminar

Research Courses

PHY 6011Y - Research in Atmospheric Physics
PHY 6021Y - Research in Biophysics
PHY 6031Y - Research in Condensed Matter Physics
PHY 6041Y - Research in Geophysics
PHY 6051Y - Research in Quantum Optics
PHY 6071Y - Research in Subatomic Physics and Astrophysics

Graduate Faculty

Full Members
Abbatt, Jonathan - BSc, PhD
Bailey, David - BSc, PhD
Bailey, Richard - BSc, PhD
Barzdziunas, Virginijus - BS, DSc
Bond, J Richard - BSc, MS, PhD, Fell Royal Society Canada, Fell Royal Society London
Burch, Kenneth - BSc, MS, PhD
Chan, Hue Sun - BSc, MA, PhD
Chun, Kin-Yip - BSc, MA, PhD
Code, Richard - BSc, AM, PhD
Desai, Rashmi - BSc, MA, PhD
Dhirani, Al-Amin - MSc, PhD
Donaldson, D. James - PhD
Drummond, James - BA, MA, DPhil
Dyer, Charles - BS, MSc, PhD
Edwards, Richard - BSc, PhD, Assoc Royal Coll of Sci
Gadzuk, Claudio - PhD
Griffin, P Allan - BSc, MSc, PhD
Holdom, Bob - BSc, MA, PhD
James, Daniel - BA, PhD
John, Sajeev - PhD
Jones, Dylan - AB, SM, PhD
Joy, Michael - BSc, MSc, PhD
Julian, Stephen - BSc, MS, PhD (Associate Chair, Graduate Studies)
Kay, Lewis - PhD
Kee, Hae-Young - PhD
Key, Anthony - MA, DPhil
Kim, Yong Baek - PhD
Kim, Young-June - BS, PhD
Krieger, Peter - PhD
Kushner, Paul - BSc, MSc, PhD
Lu, Qinya - PhD
Lo, Ho-Kwong - BA, MA, MS, PhD
Lowman, Julian - BSc, MS, DPhil
Luke, Michael - BSc, PhD (Chair and Graduate Chair)
Luste, George - BA, PhD
Marjoribanks, Robin - BSc, MS, MSc, PhD
Martin, John - PhD
Milkereit, Bernd - DrRerNat
Miller, R J Dwayne - BSc, PhD
Mitrovica, Jerry - BASc, MSc, PhD
Moore, GW Kent - BSc, PhD
Morris, Stephen - BSc, MSc, PhD
Murray, Norman - BSc, PhD
Netterfield, C. Barth - BSc, PhD
Norwich, Kenneth - MSc, PhD
Orr, Robert - BSc, PhD, Assoc Royal Coll of Sci
Paramekanti, Arun - BE, PhD
Peet, Amanda - PhD
Pettier, W Richard - BSc, MSc, PhD
Pen, Ue-Li - BSc, PhD
Pfeiffer, Harald - PhD
Poppitz, Erich - PhD
Repka, Joseph - BSc, PhD
Ryu, William - AB, PhD
Savard, Pierre - PhD
Shepherd, Theodore - BSc, PhD
Sinervo, Pekka - BSc, PhD
Sipe, John - BSc, MSc, PhD
Stanley, Sabine - BSc, PhD
Steinberg, Aephraim - PhD
Strong, Kimberly - PhD
Teuscher, Richard - BSc, MSc, PhD
Thompson, Christopher - BSc, PhD
Thywissen, Joseph - AM, PhD
Trischuk, William - PhD
Van Driel, Henry - BSc, MSc, PhD
Walker, Kaley - BSc, PhD
Wei, John - PhD
Wells, Matthew - BS, DPhil
Zilman, Anton - BSc, MSc, PhD

Members Emeriti
Drake, Thomas - BSc, MSc, PhD
Dunlop, David - MA, PhD
Litherland, Albert - BSc, PhD, Fell Royal Society London
Logan, Robert - BSc, PhD
May, Albert - BA, MA, PhD
O’Donnell, Patrick - BSc, PhD
Perz, John - BASc, MASC, PhD
Rowe, David - BA, MA, DPhil
Walker, Michael - BEng, DPhil
West, Gordon - BASc, MA, PhD
Wong, Samuel - BA, MS, PhD
Physiology

Faculty Affiliation
Medicine

Degree Programs Offered
Physiology – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Biomedical Engineering
   • Physiology, MSc, PhD
2. Cardiovascular Sciences
   • Physiology, MSc, PhD
3. Developmental Biology
   • Physiology, MSc, PhD
4. Neuroscience
   • Physiology, MSc, PhD
5. Resuscitation Sciences
   • Physiology, MSc, PhD

Overview
The Department of Physiology offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees. Research ranges from the gene level to the organism level in areas including endocrinology and diabetes; reproduction endocrinology; fetal physiology, pregnancy, and parturition; neuroendocrinology; cardiorespiratory regulation; gastrointestinal motility; sensory physiology; motor control; brain development and aging; ionic channels and synaptic transmission; excitability, ultrastructure and plasticity of the brain.

Contact and Address
Web: www.physiology.utoronto.ca
Email: graduate.physiology@utoronto.ca
Telephone: (416) 978-2601
Fax: (416) 978-4940
Department of Physiology
University of Toronto
Room 3217, Medical Sciences Building
1 King’s College Circle
Toronto, Ontario M5S 1A8
Canada

Degree Programs

Physiology

Master of Science

Minimum Admission Requirements

- Admission is based on academic record, an essay summarizing background strengths and scientific aims, and at least two confidential letters of reference.
- An appropriate bachelor’s degree from a recognized university with a final-year average of at least B+ and with courses such as biochemistry, calculus, organic and physical chemistry, general physics, and physiology.
- Physical-science-stream students from undergraduate programs in physics, mathematics, engineering, and other sciences are encouraged to apply to the MSc program.
- Applicants who were educated outside Canada, whose primary language is not English, and who graduated from a university where the language of instruction was not English, must demonstrate facility in the English language through the successful completion of the Test of English as a Foreign Language (TOEFL) with the following minimum scores:
  - paper-based TOEFL: 600 and 5 on the TWE
  - Internet-based TOEFL: 100/120 and 22/30 on the writing and speaking sections

Other English proficiency tests are acceptable. Please consult the website for departmental standards.

Program Requirements
All students are required to:

- take 1.5 full-course equivalents (FCEs) in Physiology courses, with the following guidelines:
  - 0.5 FCE in PSL 1000H: MSC Seminars in Physiology (Credit/No Credit), mandatory for all graduate students in physiology
  - 0.5 FCE in physiology graduate-only courses
  - 0.5 FCE with a choice of (i) a physiology graduate-only course or physiology joint graduate-undergraduate course (preference option) or (ii) a course taken in another department (rare choice)
- select courses in consultation with the supervisor and/or advisory committee. See the Physiology website for details of course requirements.
- present and defend a research thesis acceptable to the graduate department.
- do one of the following after 12 to 18 months in the MSc program:
Program Requirements
- All students are required to take 2.5 full-course equivalents (FCEs) in Physiology courses in which an average standing of at least A- is maintained, with the following guidelines:
  - 0.5 FCE in PSL 2000H* PhD Seminars in Physiology (Credit/No Credit), mandatory for all graduate students in Physiology
  - 0.5 FCE in Physiology graduate-only courses
  - 0.5 FCE in PSL 1066H* Research Grant Proposal (Credit/No Credit), mandatory for all PhD students in Physiology
  - 1.0 FCE with a choice of (i) a Physiology graduate-only course or Physiology joint graduate-undergraduate course (preferable option) or (ii) a course taken in another department (rare choice)
- Up to 1.0 FCE can be claimed from the student’s MSc program completed in another department or university, subject to approval by the Graduate Studies Committee. Students transferring from the MSc in Physiology are required to complete 1.5 FCEs since these students will have already fulfilled 1.0 FCE in the MSc.
- Courses are selected in consultation with the supervisor and/or advisory committee. See the Physiology website for details of course requirements
- The recommended completion time for the doctoral program is approximately four years, by which time the candidate will write and defend a research thesis, first before a departmental committee and subsequently before a committee approved by the School of Graduate Studies.

Normal Program Length: 4 years full-time; 5 years direct-entry; 5 years transfer-from-master’s
Time Limit: 6 years full-time; 7 years direct-entry; 7 years transfer-from-master’s

Course List
Not all courses are offered each year. Check departmental website for course availability and course requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCV 1060H</td>
<td>Developmental Cardiovascular Physiology</td>
</tr>
<tr>
<td>JCV 3060H</td>
<td>Advanced Topics in Cardiovascular Sciences—Molecular Biology and Heart Signal Transduction</td>
</tr>
<tr>
<td>JCV 3061H</td>
<td>Advanced Topics in Cardiovascular Sciences—Hormones</td>
</tr>
<tr>
<td>JCV 3062H</td>
<td>Advanced Research in Cardiovascular Sciences—Heart Function</td>
</tr>
<tr>
<td>JCV 3063H</td>
<td>Advanced Research in Cardiovascular Sciences—Vascular</td>
</tr>
<tr>
<td>JYG 1555H</td>
<td>Advanced Topics: Cellular and Molecular Neuroscience</td>
</tr>
</tbody>
</table>
Degree and Diploma Programs by Graduate Unit

PSL 1000H* MSc Seminars in Physiology (Credit/No Credit)
PSL 1024H Advanced Topics: Neuroendocrinology
PSL 1026H Advanced Topics: Experimental Cell Physiology
PSL 1034H Advanced Topics: Metabolic Disorders
PSL 1036H Advanced Topics: Respiration
PSL 1047H Advanced Topics: Somatosensory and Pain Neuroscience
PSL 1048H Translational Physiology
PSL 1050H Hippocampus: Cell to Behaviour
PSL 1053H Advanced Topics: Critical Assessment of Ion Channel Function
PSL 1066H* Research Grant Proposal (Credit/No Credit)
PSL 1067H Advanced Topics: Advances and Techniques in Developmental Physiology
PSL 1068H Advanced Topics: Molecular Basis of Behaviour
PSL 1069H Advanced Topics: Respiratory Physiology
PSL 1070H Advanced Topics: Hormone Action
PSL 1071H Advanced Topics: Computational Neuroscience
PSL 1080H Advanced Topics: Investigative Developmental Physiology
PSL 2000H* PhD Seminars in Physiology (Credit/No Credit)

Joint Graduate/Undergraduate

JNR 1444Y Fundamentals of Neuroscience: Cellular and Molecular
JNS 1000Y Fundamentals of Neuroscience: Systems and Behaviour
PSL 1374H Advanced Physiology Laboratory
PSL 1420H Reproductive Physiology
PSL 1421H Pregnancy and Birth: From Implantation to Newborn
PSL 1425H Integrative Metabolism and Its Endocrine Regulation
PPL 1432H Theoretical Physiology
PPL 1441H Systems Level Neuroplasticity
PPL 1445H Mechanistic Molecular and Cellular Neuroscience
PPL 1446H Molecular and Cellular Aspects of Neural Disorders
PPL 1452H Fundamentals of Ion Channel Function
PPL 1454H Physiological Instrumentation and Electronics
PPL 1462H Molecular Aspects of Cardiovascular Function
PPL 1472H Sleep Physiology and Chronobiology

Graduate Faculty

Full Members

Adamson, Susan - BSc, MSc, MD, PhD

Anderson, Gerald - BSc, MSc, PhD
Backx, Peter - DrMedVet, PhD, PhD
Bear, Christine - BSc, MSc, PhD
Belik, Jaques - MD
Belshaw, Denise - PhD
Bocking, Alan - MD
Bolz, Steffen-Sebastian - MD, DrMed
Boonstra, Rudy - BSc, PhD
Broussard, Dianne - PhD
Brown, Theodore - BSc, PhD
Brubaker, Patricia - BSc, PhD
Caniggia, Isabella - MD, PhD
Carlen, Peter - MD
Casper, Robert - MD
Challis, John - BSc, PhD, DSc, Fell Royal Society Canada
Charlton, Milton - BSc, MSc, PhD
Dostrovsky, Jonathan - BSc, MSc, PhD
Duffin, James - BS, MSc, PhD
Eubanks, James - BSc, AA, PhD
Fantus, George - BSc, MDCM
Frankland, Paul - MA, PhD
Gaisano, Herbert - BS, MD
Giacca, Adria - MD
Gramolini, Anthony - BSc, MSc, PhD
Hare, Gregory - MD, PhD
Harrison, Robert - PhD, DSc
Heximer, Scott - PhD
Horner, Richard - BSc, PhD
Husain, Mansoor - MB, MD
Hutchison, William - BSc, MSc, PhD
Jankov, Robert - MB
Jia, Zhengping - PhD
Jin, Tianru - PhD
Jones, Nicola - MD
Josselyn, Sheena - MA, PhD
Jurisicova, Andrea - PhD
Kavanagh, Brian - BSc, BSc, MBChB, MBChB
Klip, Amira - ScD
Lambe, Evelyn - AB, MSc, PhD
Lewis, Gary - BSc, MBChB
Liu, Fang - PhD
Liu, Mingyao - MSc, MD
Liu, Peter - MD
Lye, Stephen - BSc, PhD
MacDonald, John - BSc, PhD
Mackay, William - BSc, MSc, PhD
Matthews, Stephen - BSc, DPhil (Chair and Graduate Chair)
Miller, Freda - BSc, PhD
Mills, Linda - PhD
Monnier, Philippe - MBA, PhD
Mount, Howard - BSc, PhD
Ng, Dominic - MD
Orser, Beverley - MD
Palmer, Mark - MD
Pang, Cho - BSc, MSc, PhD
Pennefather, Peter - BSc, PhD
Post, Martin - PhD
Quaggin, Susan Elizabeth - MD
Rocheleau, Jonathan - BSc, PhD
Roder, John - PhD
Rosenblum, Norman - MD
Salter, Michael - MD, PhD

0 Course that may continue over a program. The course is graded when completed.
Schlichter, Lyanne - BSc, MSc, PhD
Seltzer, Ze’ev - DMD, BMedSc
Sessle, Barry - BS, MSD, BDS, PhD
Skinner, Frances - PhD
Soe, Michael - BSc, MD
Stanley, Elise - PhD
Sugi, Shuzo - PhD, PhD
Sweezey, Neil - BSc, MD, MD
Tanswell, Alan - BS, MBBS, MBBS
Thomas, Scott - BSc, MSc, PhD
Trimble, William - BSc, PhD
Tweed, Douglas - MD, PhD, PhD
Tymianski, Michael - BA, MD, PhD
Verrier, Mary (Molly) - DipOT, MHS
Volchuk, Allen - BSc, PhD
Vranic, Miaden - MD, DSc
Wang, Lu-Yang - PhD
Wang, Qinghua - DSc
Wheeler, Michael - BSc, PhD
Wilson, Gregory - MSc, MD
Wittnich, Carin - MSc, DVM
Wojtowicz, J. Martin - BSc, PhD
Zhen, Mei - PhD
Zhuo, Min - MS, PhD

Members Emeriti
Atwood, Harold - BA, MA, PhD, PhD, DSc, DSc, Fell
Royal Society Canada
Diamant, Nicholas - MDCM
Kwan, Hon - BASc, MSc, PhD
Norwich, Kenneth - MSc, PhD

Associate Members
Chauhan, Vijay - MD
Fisher, Joseph - MD
Lam, Tony - BS, DPhil
Mazer, Cyril David - MD
Ni, Heyu - MSc, MD, PhD
Pausova, Zdenka - MD
Rogers, Ian - MSc, PhD
Sun, Hong-Shuo - MSc, DrMed, DPhil
Zhang, Haibo - MSc, PhD
Degree and Diploma Programs by Graduate Unit

Political Science

Faculty Affiliation
Arts and Science

Degree Programs Offered
Political Science – MA, JD/MA, PhD, JD/PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Asia-Pacific Studies
   • Political Science, MA
2. Diaspora and Transnational Studies
   • Political Science, MA, PhD
3. Dynamics of Global Change
   • Political Science, PhD
4. Environmental Studies
   • Political Science, MA, PhD
5. Ethnic and Pluralism Studies
   • Political Science, MA, PhD
6. Global Health
   • Political Science, PhD
7. Jewish Studies
   • Political Science, MA, PhD
8. Sexual Diversity Studies
   • Political Science, MA, PhD
9. South Asian Studies
   • Political Science, PhD
10. Women and Gender Studies
    • Political Science, MA, PhD

Overview
The Master of Arts program is designed to satisfy the diverse interests of students who wish to pursue a year of graduate study in political science. Students admitted to the MA program may choose from three fields: Political Science, Political Theory, and Political Economy of International Development. Students whose interests are primarily normative and philosophical may choose the field of Political Theory.

The Combined Juris Doctor/Doctor of Philosophy program enables students to acquire a PhD in Political Science as well as a JD in law.

The Doctor of Philosophy program offers courses in four major fields of Political Theory, Canadian Politics, International Relations, Comparative Politics, and in the two minor fields of Development Studies, and Public Policy.

Contact and Address
Web: http://politics.utoronto.ca/graduate
Email: poligrad@utoronto.ca
Telephone: (416) 978-2017
Department of Political Science
University of Toronto
Room 3025, 100 St. George Street
Toronto, Ontario M5S 3G3
Canada

Degree Programs
Political Science

Master of Arts

Minimum Admission Requirements
• Cumulative grade average equivalent to a University of Toronto B+ or better in an appropriate bachelor’s degree program. Preference will be given to applicants with outstanding academic records and a strong background in political science.
• Applicants for study in the field of Political Economy of International Development must provide evidence of a satisfactory background in political science and undergraduate prerequisites in microeconomics, macroeconomics and statistics. A “satisfactory background in political science” means a minimum of five well distributed courses including at least one relating to development.
• Admission is competitive. Enrolment in the program is limited, and meeting minimum requirements does not guarantee admission. All applicants are considered on their individual merit by a departmental admissions committee. Applicants lacking an adequate background in political science may be required to complete additional undergraduate courses before being considered for admission. Such work should be undertaken in consultation with the MA supervisor.
• Applicants must submit a complete application according to instructions on the website http://politics.utoronto.ca/graduate/application-procedures.

Program Requirements
• Minimum of 4.0. full-course equivalents (FCEs). See the specific requirements of each field below.
• Programs in which additional requirements or prerequisites must be met may take longer than three sessions to complete.

www.sgs.utoronto.ca/calendar/2011-12 Political Science 367
• The equivalent of 1.0 FCE may be taken in a
cognate discipline with the approval of the
department.
• All students, except those who declare
Political Theory as a field or who are enrolled in
collaborative programs with a similar requirement,
must complete a full-year research seminar course
and its required assignment of a 30- to 50-page
research major paper. POL 2810Y and POL 2811Y
are the two seminars currently offered which meet
this requirement.

Field Political Theory
• 2.0 FCEs in political theory.
• At least 1.0 FCE in an area outside political theory.
• All courses must be chosen in consultation with the
MA supervisor.

Field Political Science
• At least 0.5 FCE in political theory, which can
be either the 0.5 FCE offered by the department
specifically for this purpose (POL 2040H) or any
other theory course.
• At least 0.5 FCE in statistics or research design.
POL 2502Y, POL 2503H, and POL 2504H are
among the courses currently offered by the
department which meet this requirement.

Field Political Economy of
International Development (PEID)
• JPE 2408Y
• 0.5 FCE in economics or equivalent, normally
ECO 2700H, selected from the economics course
list (see list on the departmental website in the PEID
program description).
• 1.0 FCE taken from the approved political science
course list.
• To fulfil the Political Economy requirement, students
must complete one of the MA Research Seminars,
POL 2810Y or POL 2811Y, with political economy
as the focus of the major research paper.
• The remaining 0.5 FCE can be a course from any of
the three lists.

Normal Program Length: 3 sessions full-time
Time Limit: 3 years full-time

Combined Juris Doctor/Master of
Arts in Law and Political Science

Effective September 2010, admissions have
ceased for the JD/MA in Law and Political Science.

The combined JD/MA in Law and Political Science
allows for the completion of both degrees in three
years, rather than the four that would be required to
complete the degrees separately.

Minimum Admission Requirements
• Students must be admitted to both the JD program
in the Faculty of Law and the MA program in
Political Science.

Program Requirements
• Year 1: complete the first year of law in the
combined program
• Years 2 and 3: complete credits toward both JD in
Law and MA in Political Science degrees.
• Those interested in the combined program must
also apply to the collaborative master’s program in
International Relations. If accepted, students must
complete the requirements for both the combined
program and the collaborative program.
• Students enrolled in both the combined JD/MA
program and the collaborative master’s program in
International Relations will complete the following
requirements in years two and three:
  ○ JHP 2231H, ECO 2302H, LAW 252H, 1.0 FCE in
    International Relations elective courses, and 1.5
    FCEs in Political Science courses.
• For minimum period of registration please refer to
the individual entries for the two degrees.

Time Limit: 4 years full-time

Combined Juris Doctor/Doctor of
Philosophy in Law and Political Science

The Combined JD/PhD in Political Science and Law
allows students to complete both degrees at least one
year sooner than it would take to complete the degrees
separately.

Minimum Admission Requirements
Students must be admitted to both the Faculty of
Law and the Doctor of Philosophy Program

Program Requirements
• Year 1: complete the first year of law in the
combined program
• Year 2: complete a year in Political Science
• Years 3 and 4: two years in Law
• Complete the requirements of the PhD program,
including a thesis.

Time Limit: 6 years full-time; 7 years direct-entry

Doctor of Philosophy

Minimum Admission Requirements
• Applicants may be admitted via one of three routes:
  ○ Excellent students who have completed an MA
degree in political science (or its equivalent) by
the time of enrolment
  ○ Exceptional students who have completed
an appropriate bachelor’s degree with a
concentration in political science by the time of enrolment. Students admitted to the PhD from a bachelor’s degree who receive less than an A- average in their first four courses will be recommended to SGS to transfer to the MA program. If the transfer is approved, these students will graduate with a terminal MA, provided their grades meet the requirements for the MA degree.

○ In exceptional cases, on the initiative of the Director of Graduate Studies, MA students may be transferred to the PhD program. Such transfers will occur only where a full assessment of an applicant’s bachelor’s record (or equivalent) was impossible and where that student’s instructors concur that the student in question has excelled in the first half of the MA program.

○ Applicants from both levels are expected to have achieved grades averaging A- or better in their most recent degree. Applicants from the BA level will apply to the MA program but indicate on the MA application that they wish to be considered for direct entry to the PhD program.

○ Applicants must submit a complete application according to instructions on the website http://politics.utoronto.ca/graduate/application-procedures.

Program Requirements

○ PhD students will declare two fields.

○ Field 1 will be one of Canadian Politics, Comparative Politics, International Relations or Political Theory. The normal course requirement for Field 1 will be 2.0 full-course equivalents (FCEs).

○ Field 2 will be one of Canadian Politics, Comparative Politics, International Relations, Political Theory, Development Studies, or Public Policy. The normal course requirement for Field 2 will be 1.5 FCEs.

○ The Director of Graduate Studies may exercise discretion to waive the Field 2 requirement for students enrolled in collaborative programs.

○ All PhD students who do not designate Political Theory as Field 1 are required to complete 0.5 graduate-level FCE in political theory.

○ All PhD students are required to complete 0.5 FCE in qualitative methods. This requirement may be waived on the basis of MA work.

○ All PhD students who do not designate Political Theory as Field 1 are required to complete 0.5 FCE in quantitative methods. This requirement may be waived on the basis of MA work. Students who designate Political Theory as Field 1 will substitute a non-waivable 0.5 FCE intensive reading requirement for the quantitative methods requirement.

○ Field examinations. All PhD students are required to complete Field Examinations in Field 1 and Field 2 by the end of year two. The Field 1 examination should be taken in May or August of the year in which the core course is taken as long as all assignments in the core course have been completed. The Field 2 examination must be taken no later than the second year of the PhD program. A student who fails to achieve a grade of at least A- is permitted one opportunity to retake the examination. If, after failing the examination once, the student is permitted two attempts to pass the examination in a new field.

○ Thesis proposal, thesis committee, and thesis schedule. Students should assign a high priority to defining a thesis topic and choosing a thesis committee. By the beginning of the third year (fourth for direct-entry applicants) students must (a) have established a thesis committee of three faculty members including a thesis supervisor, and (b) have completed a thesis proposal of approximately 25 pages for submission to the thesis committee. The research and writing of the thesis will follow the acceptance of the thesis proposal. The work schedule should permit the student to complete the thesis by the end of the fifth year (in the case of those admitted from an MA) or the sixth year (in the case of those admitted from a BA).

○ Language requirement. Students must demonstrate competence in the language that is appropriate to the nature of the graduate work in which they are engaged. Students whose Field 1 is Canadian Politics are strongly encouraged to demonstrate competence in French.

○ University policy requires that students complete all their non-thesis requirements (coursework, thesis proposal, Field 1 and Field 2 qualifying exams, and language requirements) by the end of year three (or year four for those entering directly from an undergraduate program).

○ All PhD students must achieve an A- average in coursework and an A- in their field examinations to remain in good standing.

Students with MA

○ 2.0 to 5.0 FCEs depending on student’s relevant background in the fields or area of choice. All PhD students are required to have at least 0.5 graduate FCE in political theory. Graduate courses taken at the MA level at the University of Toronto or elsewhere may be counted, with the department’s permission, towards meeting some course requirements. Most students who enter from the MA will take the equivalent of 4.0 FCEs to satisfy program requirements; all PhD students must take a minimum of 2.0 FCEs with the department after entering the PhD program.

○ Minimum of three sessions in residence.
Students with BA
- 6.0 FCEs with at least an A- average in their first four courses in order to continue in the PhD program. In selecting courses, students should ensure that they satisfy the field requirements as described for those entering the PhD program with an MA.
- Minimum of six sessions in residence.

Normal Program Length: 4 years full-time; 5 years direct-entry; 5 years transfer-from-master’s
Time Limit: 6 years full-time; 7 years direct-entry; 7 transfer-from-master’s

Course List
Some listed courses have an undergraduate component and begin the first week of the session. Not all courses are given every year. Consult the departmental timetable. Theory Intensive Reading Courses are denoted with an asterisk (*).

Political Theory

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 2000Y</td>
<td>Comparative Studies in the History of Political Thought (core course)</td>
</tr>
<tr>
<td>POL 2001Y</td>
<td>Problems of Political Community</td>
</tr>
<tr>
<td>POL 2004Y</td>
<td>Marxism</td>
</tr>
<tr>
<td>POL 2006H</td>
<td>Studies in Modern Political Theory*</td>
</tr>
<tr>
<td>POL 2007H</td>
<td>Twentieth-Century Political Thought*</td>
</tr>
<tr>
<td>POL 2008Y</td>
<td>The Political Theory of G. W. F. Hegel*</td>
</tr>
<tr>
<td>POL 2010H</td>
<td>Democratic Theory</td>
</tr>
<tr>
<td>POL 2011Y</td>
<td>Problems in the Political Thought of the Socratic School</td>
</tr>
<tr>
<td>POL 2016H</td>
<td>Topics in the Philosophy of Law</td>
</tr>
<tr>
<td>POL 2019Y</td>
<td>Moral Reason and Economic History</td>
</tr>
<tr>
<td>POL 2021Y</td>
<td>Comparative Studies in Jewish and Non-Jewish Political Thought</td>
</tr>
<tr>
<td>POL 2024H</td>
<td>Feminist Theory: Challenges to Legal and Political Thought</td>
</tr>
<tr>
<td>POL 2025Y</td>
<td>Enlightenment and its Critics</td>
</tr>
<tr>
<td>POL 2026H</td>
<td>Topics in Political Thought I</td>
</tr>
<tr>
<td>POL 2027H</td>
<td>Topics in Political Thought II</td>
</tr>
<tr>
<td>POL 2028H</td>
<td>Approaches to Political Theory</td>
</tr>
<tr>
<td>JPJ 2029H</td>
<td>Religion and the Liberal State: the Case of Islam</td>
</tr>
<tr>
<td>POL 2030Y</td>
<td>The Spirit of Democratic Citizenship</td>
</tr>
<tr>
<td>POL 2032H</td>
<td>Judgement in Law and Politics</td>
</tr>
<tr>
<td>JPJ 2036Y</td>
<td>Comparative Constitutionalism: Rights and Judicial Review</td>
</tr>
<tr>
<td>POL 2037H</td>
<td>Law, Religion, and Public Discourse</td>
</tr>
<tr>
<td>JPJ 2037Y</td>
<td>Post-Modern and Contemporary Thought</td>
</tr>
<tr>
<td>POL 2038H</td>
<td>Pluralism, Justice and Equality</td>
</tr>
<tr>
<td>POL 2040H</td>
<td>Horizons of Political Reflection</td>
</tr>
<tr>
<td>POL 2041Y</td>
<td>Politics of Origin</td>
</tr>
<tr>
<td>JPJ 2047H</td>
<td>Comparative Constitutional Law and Politics</td>
</tr>
<tr>
<td>POL 2057H</td>
<td>Markets, Justice and the Human Good</td>
</tr>
<tr>
<td>JPR 2057H</td>
<td>Democracy and the Secular</td>
</tr>
<tr>
<td>POL 2071H</td>
<td>The Political Thought of George Grant</td>
</tr>
<tr>
<td>POL 2083H</td>
<td>Cosmopolitanism*</td>
</tr>
<tr>
<td>POL 2127Y</td>
<td>Multiculturalism in Canada</td>
</tr>
<tr>
<td>PHL 2141H</td>
<td>Political Philosophy</td>
</tr>
<tr>
<td>POL 2212H</td>
<td>Human Rights Politics and International Relations</td>
</tr>
<tr>
<td>POL 2226H</td>
<td>Ethics and International Relations</td>
</tr>
<tr>
<td>POL 2235H</td>
<td>Development, International Relations, Globalization: Through the Lens of a Gender</td>
</tr>
<tr>
<td>POL 2801H</td>
<td>Special Topics</td>
</tr>
<tr>
<td>RLG 3622H</td>
<td>Maimonides and His Modern Interpreters</td>
</tr>
</tbody>
</table>

Canadian Politics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>POL 2100Y</td>
<td>Government of Canada (core course)</td>
</tr>
<tr>
<td>POL 2102H</td>
<td>Topics in Canadian Politics I</td>
</tr>
<tr>
<td>POL 2103H</td>
<td>Topics in Canadian Politics II</td>
</tr>
<tr>
<td>POL 2110H</td>
<td>The Politics of Public Sector Budgeting</td>
</tr>
<tr>
<td>POL 2127Y</td>
<td>Multiculturalism in Canada</td>
</tr>
<tr>
<td>JPJ 2133H</td>
<td>Constitutional Courts and Constitutional Rights</td>
</tr>
<tr>
<td>POL 2139H</td>
<td>The Canadian Welfare State in Comparative Perspective</td>
</tr>
<tr>
<td>POL 2190Y</td>
<td>Topics in Canadian Politics I</td>
</tr>
<tr>
<td>POL 2191Y</td>
<td>Topics in Canadian Politics II</td>
</tr>
<tr>
<td>POL 2317H</td>
<td>Politics and Policy Analysis</td>
</tr>
<tr>
<td>HAD 5011H</td>
<td>Canada’s Health System and Health Policy</td>
</tr>
<tr>
<td>HAD 5765H</td>
<td>Case Studies in Health Policy</td>
</tr>
</tbody>
</table>

International Relations

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>POL 2200Y</td>
<td>International Politics (core course)</td>
</tr>
<tr>
<td>DGC 1000H</td>
<td>Core Issues in the Dynamics of Global Change</td>
</tr>
<tr>
<td>DGC 2000H</td>
<td>Special Topics in the Dynamics of Global Change</td>
</tr>
<tr>
<td>DGC 2001H</td>
<td>Special Topics in the Dynamics of Global Change</td>
</tr>
<tr>
<td>DGC 2002H</td>
<td>Special Topics in the Dynamics of Global Change</td>
</tr>
<tr>
<td>DGC 2003H</td>
<td>Special Topics in the Dynamics of Global Change</td>
</tr>
<tr>
<td>JHP 1631H</td>
<td>Intelligence and International Relations</td>
</tr>
<tr>
<td>JPJ 2031H</td>
<td>Telecommunications and Internet Law</td>
</tr>
<tr>
<td>JPJ 2035H</td>
<td>International Taxation</td>
</tr>
<tr>
<td>JPJ 2037H</td>
<td>International Trade Regulation</td>
</tr>
<tr>
<td>JPJ 2039H</td>
<td>European Community Law</td>
</tr>
<tr>
<td>JPJ 2042H</td>
<td>Labour Policy</td>
</tr>
<tr>
<td>JPJ 2045H</td>
<td>Institutionalizing Doubt: Modernity and the Challenge to Traditional Legal Traditions</td>
</tr>
<tr>
<td>JPJ 2046H</td>
<td>Law, Institutions, and Development</td>
</tr>
<tr>
<td>JPJ 2048H</td>
<td>The Law and Praxis of International Human Rights</td>
</tr>
<tr>
<td>JPJ 2049H</td>
<td>Women's Rights in International Law</td>
</tr>
<tr>
<td>JPJ 2050H</td>
<td>Legal Issues in Cyberspace</td>
</tr>
<tr>
<td>JPJ 2051H</td>
<td>Foundations of the Law of the European Union</td>
</tr>
<tr>
<td>POL 2202H</td>
<td>Advanced Topics in International Political Economy</td>
</tr>
<tr>
<td>POL 2205H</td>
<td>Topics in International Politics I</td>
</tr>
</tbody>
</table>

370 Political Science 2011/2012 School of Graduate Studies Calendar
Degree and Diploma Programs by Graduate Unit

POL 2206H Topics in International Politics II
POL 2206H, Y Topics in International Politics II
POL 2207H Topics in International Politics III
POL 2208Y Third World Politics in International Affairs
POL 2210Y Elements of United States Foreign Policy
POL 2211Y International Political Economy of Finance
POL 2212Y Human Rights Politics and International Relations
POL 2213H Global Environmental Politics
POL 2214H Global Health in a Changing World
POL 2216Y The Military Instrument of Foreign Policy
POL 2218H Political Economy of International Trade
POL 2226H Ethics and International Relations
JBP 2230H Topics in International Politics
JHP 2231H The History and Philosophy of International Relations Thought
JPD 2232H Global Governance
POL 2233H Conflict and Conflict Management
POL 2234H Globalization, Internationalization, and Public Policy
POL 2235H Development, International Relations, Globalization: Through the Lens of a Gender
POL 2240YH The Geopolitics of Information and Communication Technologies
POL 2256Y The G8, G20, and Global Governance
POL 2260H Security Ontology
POL 2314H Political Economy of Eastern Asia
POL 2801H Special Topics

Comparative Politics

POL 2700Y Comparative Politics (core course)
JHP 1289Y Twentieth-Century Ukraine
JPJ 2036Y Comparative Constitutionalism: Rights and Judicial Review
JPJ 2047H Comparative Constitutional Law and Politics
POL 2139H The Canadian Welfare State in Comparative Perspective
POL 2202H Advanced Topics in International Political Economy
POL 2234H Globalization, Internationalization, and Public Policy
POL 2302H Topics in United States Government and Politics
POL 2307H Political Economy of Technology: from the Auto-Industrial to the Information Age
POL 2308Y Politics and Governments of Eastern Europe
JPA 3210H Democracy and Identity in Asia
POL 2313Y Comparative Political Parties and Elections
POL 2315H Minorities in Modern Germany: Questions of Religion, Ethnicity, Sexuality, and Race
POL 2316H Women and Politics
POL 2317H Politics and Policy Analysis
POL 2318H Comparative Public Policies: Selected Areas
POL 2320H Asia and the New Global Economy
POL 2321H, Y Topics in Comparative Politics I

Development Studies

POL 2400H Theories and Issues -The Politics of Development (core course)
POL 2208Y Third World Politics in International Affairs
POL 2214H Global Health in a Changing World
POL 2218H The Political Economy of International Trade
POL 2235H Development, International Relations, Globalization: Through the Lens of a Gender
JPA 2310H Democracy and Identity in Asia
POL 2322H Topics in Comparative Politics II
POL 2326H Democracy and Dictatorship
POL 2391H, Y Topics in Comparative Politics III
POL 2404H, Y Topics in African Politics II
POL 2405H Topics in Latin American Politics
JPE 2408Y Political Economy of International Development
POL 2411H Topics in Asian Politics
JPE 2415Y Research Essay: Political Economy of Development
POL 2416Y Politics and Society in Contemporary China
POL 2418H Topics in Middle East Politics
POL 2420H Globalization, Gender and Development
JPF 2430Y Cities
POL 2482H The Politics of Disease and Epidemic

Public Policy

POL 2318H Comparative Public Policy Theory (core course)
POL 2110H The Politics of Public Sector Budgeting
POL 2139H The Canadian Welfare State in Comparative Perspective
Degree and Diploma Programs by Graduate Unit

POL 2234H Globalization, Internationalization, and Public Policy
POL 2307H Political Economy of Technology: From the Auto-Industrial to the Information Age
POL 2317H Politics and Policy Analysis
JPJ 2394H Innovation and Knowledge Transfer
POL 2482H The Politics of Disease and Epidemic
HAD 5011H Canada's Health System and Health Policy
HAD 5765H Case Studies in Health Policy

Methods and Research Seminars
POL 2502Y Quantitative Methods and Data Analysis
POL 2503H Thinking Through Research Design
POL 2504H Statistics for Political Scientists
POL 2505H Qualitative Methods in Political Research
POL 2810Y MA Research Seminar I
POL 2811Y MA Research Seminar II

Independent Study and Special Topics
POL 2800H Special Topics I
POL 2801H Special Topics II
POL 2904Y Reading course in an approved special field
POL 2905H Reading course in an approved special field
POL 2906Y Reading course in an approved special field

Graduate Faculty

Full Members
Adler, Emanuel - PhD
Andersen, Robert - BA, MA, PhD
Balot, Ryan - BA, AM, PhD
Bashevkin, Sylvia - BA, MA, PhD
Batheil, Harald - MA, PhD
Beiner, Ronald - BA, DPhil
Bejarano, Ana Maria - MA, MPH, PhD
Bernstein, Steven - PhD
Bertoldi, Nancy - BA, MA, PhD
Bertrand, Jacques - BA, MSc, MA, DrRerPol
Braun, Aurel - BA, MA, PhD
Brudner, Alan S - BA, MA, PhD
Cameron, David - PhD, Graduate Chair, Fell Royal Society Canada
Carens, Joseph - AB, MPH, MPH, PhD
Chambers, Simone - BA, MPH, MA, PhD (Coordinator of Graduate Studies)
Cook, David - BA, MA, PhD
Cunningham, Frank - BA, MA, PhD
Day, Richard - BA, MA, PhD
Deber, Raisa - BS, MS, PhD
Deibert, Ronald - BA, MA, DrRerPol
Eyhoh, Dickson - MA, PhD
Fletcher, Joseph - BA, MA, PhD
Haddow, Rodney - BA, MSc, PhD
Handley, Antoinette - BA, MPH, PhD

Hansen, Randall - BA, MPH, PhD, Canada Research Chair
Hirschi, Ran - BA, LLB, MA, MPH, PhD, Canada Research Chair
Jung, Courtenay - BA, MA, PhD
Kingston, Paul - BA, MA, MPH, DPhil
Kingston, Rebecca - BA, MA, PhD
Kirkton, John - BA, MA, PhD
Kohn, Margaret - BA, MA, PhD
Kopstein, Jeffrey - BA, MA, PhD
LeDuc, Lawrence - BA, MA, PhD
Magocsi, Paul - BA, MA, MA, PhD, Fell Royal Society Canada
McCarney, Patricia - BA, MCP, PhD
Nedelsky, Jennifer R - BA, MA, PhD
Nevitte, Neil - BA, MA, PhD, Fell Royal Society Canada
Orbinski, James - MA, MD
Orwin, Clifford - AB, AM, PhD
Pauly, Louis - BA, MA, MSc, MSc, PhD, Canada Research Chair
Rayside, David - BA, MA, PhD
Roach, Kent - BA, LLB, LLM
Schatz, Edward - PhD
Schneiderman, David - BA, LLB, LLM
Schwartz, Donald - BA, MA, PhD
Shachar, Ayelet - LLL, BA, LLM, SJID
Skogstad, Grace - DrRerPol
Stein, Janice - BA, MA, PhD
Teichman, Judith Ann - BA, MA, PhD
Vipond, Robert - BA, MA, AM, PhD
Weinrib, Lorraine - BA, LLB, LLM
White, Graham - BA, MA, PhD
White, Linda - BA, MA, PhD
Williams, Melissa - AB, AM, PhD
Wiseman, Nelson - BA, MA, PhD
Wolfe, David - BA, MA, PhD
Wong, Joseph - BA, MA, PhD, Canada Research Chair

Members Emeriti
Andrew, Edward - BA, PhD
Clarkson, Stephen - BA, BA, MA, PhD, Fell Royal Society Canada
Donnelly, Michael - BSc, MA, PhD
Forbes, Donald - BA, MA, PhD
Gregor, Richard - BA, MA, PhD
Griffiths, Franklyn Jc - BA, MIA, PhD
Horowitz, Gad - BA, PhD
Kontos, Alkis - MA, PhD
Manzer, Ronald - BEd, BA, MA, PhD
Matthews, Robert - BA, MIA, PhD
Pratt, R Cranford - BA, BPhil, Fell Royal Society Canada
Rotstein, Abraham - BA, PhD
Rubinoff, Arthur - BA, MA, PhD
Russell, Paul - BA, BEd, MA
Russell, Peter - BA, BA, Fell Royal Society Canada
Sandbrook, Richard - BA, MA, DPhil, Fell Royal Society Canada
Simeon, Richard - BA, MA, PhD, Fell Royal Society Canada
Solomon, Peter - BA, MA, PhD
Solomon, Susan - BA, MA, PhD
Stren, Richard - BA, MA, PhD
Tuohy, Carolyn - BA, MA, PhD, Fell Royal Society Canada
Watkins, Melville - BCom

**Associate Members**

Borins, Sandford - BA, PhD
Choudhry, Sujit - LLB, LLM
Esberey, Joy - BEd, BA, BSc, MA, PhD
Fujii, Lee Ann - PhD
Gilady, Lilach - BA, MPH, MA, PhD
Hall, Todd - PhD
Henderson, Ailsa - PhD
Indart, Gustavo - BA, MA, PhD
Loewen, Peter - PhD
Ong, Lynette - BA, AM, PhD
Stark, Andrew - BA, MSc, AM, PhD
Way, Lucan Alan - BA, PhD
Wong, Wendy - PhD
Professional Graduate Programs Centre (Mississauga)

Faculty Affiliation
Professional Graduate Programs (Mississauga)

Degree Programs Offered
Management & Professional Accounting
- MMPA

Diploma Programs Offered
Investigative & Forensic Accounting - DIFA

Overview
The Master of Management & Professional Accounting (MMPA) is designed to educate future leaders of the accounting profession at the master's level in management and at the professional level in accounting and related subjects.

The curriculum is organized to provide an excellent understanding of:
• the challenges, functions and needs of management,
• accounting, finance, auditing, and tax,
• essential professional subjects,
• management skills, and
• professional capabilities.

Students from any undergraduate background may apply. Advanced-standing may be granted.

The Diploma in Investigative & Forensic Accounting (DIFA) provides a rigorous and comprehensive education in investigative and forensic accounting (IFA) matters useful in becoming an expert IFA consultant, practitioner, and expert witness in legal proceedings. Expertise may include financial matters related to investigation for fraud, calculation of damages, advisors in disputes, and preparers and deliverers of information to the courts. For students who are graduate Chartered Accountants, the diploma program is the educational gateway to the CA·IFA post-graduate specialist designation offered by the Canadian Institute of Chartered Accountants.

Contact and Address
Professional Graduate Programs Centre
Web: www.utm.utoronto.ca/pgpc1.0.html
Email: anna.reale@utoronto.ca
Telephone: (905) 569-4432
Fax: (905) 828-3979

University of Toronto at Mississauga
Room 3200, South Building
3359 Mississauga Road North
Mississauga, Ontario L5L 1C6
Canada

Management & Professional Accounting
Web: www.utoronto.ca/mmpa
Email: mmpa@utoronto.ca
Telephone: (905) 828-3985
Fax: (905) 569-4306

Master of Management & Professional Accounting Program
University of Toronto Mississauga
Room K108, Kanef Center
3359 Mississauga Road North
Mississauga, Ontario L5L 1C6
Canada

Investigative & Forensic Accounting
Web: www.utoronto.ca/difa
Email: difa@utoronto.ca
Telephone: (905) 569-4331
Fax: (905) 569-4306

Diploma in Investigative & Forensic Accounting Program
University of Toronto Mississauga
Room K108, Kanef Centre
3359 Mississauga Road
Mississauga, Ontario L5L 1C6
Canada

Degree Programs
Management & Professional Accounting

Master of Management & Professional Accounting

Minimum Admission Requirements
• An appropriate bachelor’s degree with a standing equivalent to at least a University of Toronto mid-B.
• Satisfactory GMAT score.
• Proof of English facility if the applicant's first language is not English. Details on English language requirements are available in this calendar.

Program Requirements
• Program runs for 27 months covering seven sessions of full-time study, including five academic
sessions and two co-op work-placement sessions in accounting or finance-related areas. The final session of the program will include a professional integrating experience (PIE) consisting of a four-week period in which students will complete one or more of the following:
- attend the professional school of a professional accounting body, or
- write professional accounting examinations, or
- complete a consulting or work-term project

Normal Program Length: 7 sessions full-time

Course List

Notations for all courses are indicated in parentheses following the course code and are determined as follows:

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>CR/NCR (Credit/No Credit)</td>
</tr>
<tr>
<td>1</td>
<td>one module</td>
</tr>
<tr>
<td>2</td>
<td>two modules</td>
</tr>
<tr>
<td>3</td>
<td>three modules</td>
</tr>
</tbody>
</table>

One module equals five weeks with three contact hours per week. One module equals 0.25 FCE (full-course equivalent).

The department should be consulted each session as to course offerings.

MGT 1090H(0)+ Accounting Work-Term Course I
MGT 1102H(1) Business and Professional Ethics
MGT 1111H Marketing
MGT 1112H Business Finance
MGT 1113H Accounting II
MGT 1114H Management Information Systems
MGT 1115H Statistics for Management
MGT 1116H Economic Environment of Business
MGT 1210H(2) Managerial Economics
MGT 1211H(2) Economic Environment of Business
MGT 1211H(2) Accounting I
MGT 1221H(2) Managerial Accounting
MGT 1241H(2) Operations Management
MGT 1260H(2) Leadership in the Management of Teams
MGT 1272H(2) Management Information Systems
MGT 1301H(3) Fundamentals of Strategic Management
MGT 1323H(3) Auditing and Reporting
MGT 1330H(3) Business Finance
MGT 1350H(3) Marketing
MGT 1362H(3) Managing People in Organizations
MGT 1382H(3) Statistics for Management
MGT 204H(2) Advanced Concepts in Strategic Management

Diploma Programs

Investigative & Forensic Accounting

Diploma of Investigative & Forensic Accounting

Minimum Admission Requirements
- An appropriate bachelor's degree from a recognized university in commerce, business administration, or accounting, with standing equivalent to at least a University of Toronto mid-B in the final year.
- Two years of relevant experience in accounting.
- An advanced-standing option is available for qualified students with comparable university-level or Chartered Business Valuator program courses.

Program Requirements
- 10 half-course program over a minimum 2.2-year period. Courses are taken sequentially and advanced-standing course exemptions are possible. The program is offered using a combination of two one-week intensive in-residence sessions, e-learning and teleconference modules, with group discussions, assignments, and formal examinations. It is possible for students to participate from anywhere in the world.
- Advanced standing is available for qualified students; up to two courses in loss quantification and law may be counted.
Normal Program Length: 6 sessions (26 months)  
part-time

Time Limit: 6 years part-time

Course List

IFA 1900H  Introduction to Investigative and Forensic Accounting  
IFA 1901H  Investigative and Forensic Accounting Practice Issues  
IFA 1902H  Legal Process—Introductory  
IFA 1903H  Investigative-related Matters—Introductory  
IFA 1904H  Loss Quantification—Introductory  
IFA 2900H  Loss Quantification—Advanced  
IFA 2901H  Investigative-Related Matters—Advanced  
IFA 2902H  Legal Process—Advanced  
IFA 2903H  Advanced Topics/Emerging Issues  
IFA 2904H  Integrative Capstone

Courses IFA 1900H and IFA 2904H each involve a mandatory in-residence session at the University of Toronto Mississauga. IFA 2904H requires participation in moot court and other experiential learning sessions. The remaining eight courses are offered via weekly online sessions.

Graduate Faculty

Full Members

Aivazian, Varouj - BS, MA, PhD  
Brooks, Leonard - BCom, MBA, CA (Program Director)  
Li, Yue - BSc, MBA, PhD  
Rotenberg, Wendy - PhD  
Smeliauskas, Waldemar - BS, MS, PhD  
Tombak, Mihkel - BS, MBA, AM, PhD  
Wensley, Anthony - MA, MA, MBA, PhD

Associate Members

Allen, Guy - BA, MA, PhD  
Kitunen, Joan - BBM, CA  
Schneider, Manfred - BCom, MBA, JD, CA  
Wiecek, Irene - BComm, CA
Psychology

Faculty Affiliation
Arts and Science

Degree Programs Offered
Psychology – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Addiction Studies
   • Psychology, MA, PhD
2. Aging, Palliative and Supportive Care Across the Life Course
   • Psychology, MA, PhD
3. Neuroscience
   • Psychology, MA, PhD
4. Women's Health
   • Psychology, MA, PhD

Overview
Graduate training in psychology stresses training in general experimental psychology. Areas of specialization include the following:
- biology and behaviour
- perception, cognition, and cognitive neuroscience
- development
- social, personality, and abnormal psychology

Contact and Address
Web: www.psych.utoronto.ca
Email: grad@psych.utoronto.ca
Telephone: (416) 978-3404
Fax: (416) 978-4811

Department of Psychology
Graduate Studies
University of Toronto
Room 4034, Sidney Smith Hall
Toronto, Ontario M5S 3G3
Canada

Degree Programs

Psychology

Master of Arts

Minimum Admission Requirements
- Appropriate bachelor’s degree from a recognized university with a minimum A- average (or first-class standing) in the last two undergraduate years, and the equivalent of 6.0 full-course equivalents (FCEs) in psychology including statistics and some laboratory experience.
- It is assumed that all students entering the master’s program intend to continue in the PhD program.

Program Requirements
- Courses and individual research training leading to a thesis.
- In the MA year, students must complete the following 2.0 FCEs as follows:
  - PSY 1000H Directed Studies to prepare for the MA thesis research
  - PSY 2001H Design of Experiments I, experimental design and statistics
  - two half courses
- MA thesis
  It is expected that following the MA year, students will proceed to the PhD program. To be eligible for admission, adequate research performance and at least an A- average are normally required.

Normal Program Length: 3 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy

Minimum Admission Requirements
- Appropriate University of Toronto master’s degree, or its equivalent from a recognized university, with a minimum A- average and adequate research performance.

Program Requirements
- Minimum of two years of residence beyond the master’s degree, but usually takes at least three years. Applicants with a master’s degree from another university may be required to enrol in a three-year residence program.
- Individual programs of study are planned and include continuing research training with staff members. There is no language requirement.
Degree and Diploma Programs by Graduate Unit

- **PSY 3000H** Research Project in Psychology, usually taken in PhD 1. This is a research project course supervised by a faculty member other than the student’s PhD supervisor. It is a one-session course spread over PhD 1.
- **PSY 3001H** Scientific and Professional Psychology, usually taken in PhD 1.
- An advanced statistics course chosen from a list provided by the department.
- Two half courses.
- **PSY 4000H** thesis proposal and oral exam (examination in the student’s area of specialization).
- PhD thesis.
- Students may take other courses as they wish, but it is expected that the requirements will be completed in the first two years of the PhD program. Students admitted with an MA from another university will normally be required to fulfill the PhD requirements; however, exemptions may be granted by the Graduate Director of the Department of Psychology.

Normal Program Length: 4 years
Time Limit: 6 years full-time

Course List
Not all courses are offered each year. For current offerings, consult the Coordinator of Graduate Studies.

**Biology and Behaviour**
Core Courses
- **PSY 5101H** Mechanisms of Behaviour
- **PSY 5102H** Motivational Processes
- **PSY 5103H** Learning and Plasticity
- **PSY 5104H** Neuropsychology

Advanced Courses
- **PSY 5110H** Advanced Topics in Behavioural Neuroscience I
- **PSY 5111H** Advanced Topics in Behavioural Neuroscience II
- **PSY 5112H** Advanced Topics in Behavioural Neuroscience III
- **PSY 5120H** Advanced Topics in Animal Behaviour and Motivation I
- **PSY 5121H** Advanced Topics in Animal Behaviour and Motivation II
- **PSY 5122H** Advanced Topics in Animal Behaviour and Motivation III
- **PSY 5130H** Advanced Topics in Neuropsychology I
- **PSY 5131H** Advanced Topics in Neuropsychology II
- **PSY 5132H** Advanced Topics in Neuropsychology II

**Perception/Cognition/ Cognitive Neuroscience**
Core Courses
- **PSY 5201H** Audition
- **PSY 5202H** Vision
- **PSY 5203H** Higher Cognition
- **PSY 5204H** Attention
- **PSY 5205H** Memory

Advanced Courses
- **PSY 5210H** Advanced Topics in Perception I
- **PSY 5211H** Advanced Topics in Perception II
- **PSY 5212H** Advanced Topics in Perception III
- **PSY 5220H** Advanced Topics in Cognition I
- **PSY 5221H** Advanced Topics in Cognition II
- **PSY 5222H** Advanced Topics in Cognition III

**Developmental Psychology**
Core Courses
- **PSY 5300H** History, Theory and Methods of Developmental Psychology
- **PSY 5301H** Biological Development
- **PSY 5302H** Perceptual Development
- **PSY 5303H** Cognitive Development
- **PSY 5304H** Language Development
- **PSY 5305H** Social Development

Advanced Courses
- **PSY 5310H** Advanced Topics in Development I
- **PSY 5311H** Advanced Topics in Development II
- **PSY 5312H** Advanced Topics in Development III
- **PSY 5313H** Advanced Topics in Development IV

**Social/Personality/ Abnormal Psychology**
Core Courses
- **PSY 5401H** Abnormal
- **PSY 5402H** Personality
- **PSY 5403H** Social Cognition
- **PSY 5404H** Interpersonal and Group Behaviour

Advanced Courses
- **PSY 5410H** Advanced Topics in Abnormal I
- **PSY 5411H** Advanced Topics in Abnormal II
- **PSY 5412H** Advanced Topics in Abnormal III
- **PSY 5420H** Advanced Topics in Personality I
- **PSY 5421H** Advanced Topics in Personality II
- **PSY 5422H** Advanced Topics in Personality III
- **PSY 5430H** Advanced Topics in Social Psychology I
- **PSY 5431H** Advanced Topics in Social Psychology II
- **PSY 5432H** Advanced Topics in Social Psychology III
- **PSY 5433H** Advanced Topics in Social Psychology IV
- **PSY 3000H** Research Project in Psychology
- **PSY 3001H** Professional Psychology (Credit/No Credit)
PSY 3002H Teaching Practicum (Credit/No Credit)
PSY 4000H+ Specialization Study (Credit/No Credit)
PSY 4700H Psychology Testing and Assessment I
PSY 4701H Psychology Testing and Assessment II
PSY 4705H Psychological Assessment of Children
PSY 4710H Practicum in Testing and Assessment (Credit/No Credit)
PSY 4712H Practicum in Psychology: Special Topics
PSY 4711H Practicum in Applied Psychology (Credit/No Credit)
PSY 4720H,Y Internship in Applied Psychology (Credit/No Credit)

Cross-Listed Courses
CSC 2535H Computation in Neural Networks
JLP 2450H Psycholinguistics
JNS 1000Y Fundamentals of Neuroscience: Systems and Behaviour
JPX 1001Y Parenting: Multidisciplinary Perspectives
JPM 1005Y Behavioural Pharmacology
ZOO 2215Y Insect Behaviour

Graduate Faculty

Full Members
Alain, Claude - BA, MA, PhD
Anderson, Adam - BA, PhD
Anderson, Nicole - BA, MA, PhD
Bagby, Michael - PhD
Barense, Morgan - BA, PhD
Bassili, John - BA, PhD
Bors, Douglas - AB, AM, DPhil, PhD
Buchsbaum, Bradley - BS, PhD
Campos, Jennifer - BA, PhD
Chambers, Craig - BA, MA, MA, PhD
Chasteen, Alison - BA, PhD
Cohn, Melanie - BA, MA, PhD
Cote, Stephane - PhD
Cree, George Scott - BA, MA, PhD
Cunningham, John - BSc, MA, PhD
Cupchik, Gerald Chaim - BA, MA, PhD
Daneman, Meredeth - BA, MA, PhD
De Rosa, Eve - BA, PhD
Dennis, Maureen - BA, MA, PhD
Dion, Karen - BA, PhD
Dunbar, Kevin - BA, MA, PhD
Einstein, Gillian - AB, PhD
Erb, Suzanne - DPhil
Ferber, Susanne - MPSY, PhD (Graduate Director)
Fleming, Alison - BS, PhD
Fletcher, Paul - BSc, DPhil
Fournier, Marc - BA, PhD
Gerlai, Robert - MSc, PhD
Gilboa, Asaf - BA, MA, PhD
Grady, Cheryl - BA, MA, PhD
Haley, David - BA, MPSY, PhD

Hasher, Lynn - AB, PhD
Helwig, Charles - BA, PhD
Herman, C Peter - BA, PhD
Holmes, Melissa - PhD
Impett, Emily - BS, MS, PhD
Inzlicht, Michael - BS, MS, PhD
Jenkins, Jennifer - BA, MA, PhD
Johnson, Elizabeth - PhD
Joordens, Steve - BA, MA, PhD
Kim, Junchul - BSc, MSc, PhD
Kraemer, Gary - PhD
Latham, Gary - BA, MS, PhD
Leonardelli, Geoffrey - BA, PhD
Levine, Brian - BA, MA, PhD
Lewis, Marc - BA, MA, PhD
Lockwood, Penelope - BA, MA, PhD
Mabbott, Donald - PhD
McAndrews, Mary Patricia - BSc, MA, PhD
McIntosh, Anthony Randal - BSc, MSc, PhD
Meltzer, Jed - BSc, PhD
Milgram, Norton - BSc, MSc, PhD
Monks, Ashley - BSc, MA, PhD
Moscovitch, Morris - BSc, MA, PhD
Murphy, Kelly - BSc, MA, PhD
Niemeier, Matthias - MA, PhD
Nobrega, Jose - PhD
Nussbaum, David - BA, MA, PhD
Page-Gould, Elizabeth - BS, PhD
Paus, Tomas - PhD
Peterson, Jordan - BA, MA, PhD
Petit, Ted - BS, MA, PhD
Petitto, Laura Ann - BSc, MPSY, MA, PhD
Pichora-Fuller, Margaret Kathleen - AB, MS, DPhil
Plaks, Jason - BA, MA, MPH, PhD
Polliy, Janet - BS, MA, PhD
Pratt, Jay - BA, MS, PhD
Ralph, Martin - BSc, PhD
Ravindran, Arun - PhD
Reingold, Eyal - PhD
Rovet, Joanne - BSc, PhD
Rule, Nicholas - AB, MS, PhD
Ruocco, Anthony Charles - BS, MSc, DPhil
Ryan, Jennifer - BS, PhD
Schellenberg, Glenn - BSc, PhD
Schimmack, Ulrich - DPhil
Schmuckler, Mark - BA, PhD
Schneider, Bruce - BA, PhD
Shaper, Paul - BA, MA, PhD
Smith, Mary Lou - BSc, MSc, PhD (Acting Graduate Chair)
Smyth, Ronald - BA, MSc, PhD
Spence, Ian - MA, MA, PhD
Stuss, Donald - BPhil, MA, PhD
Tackett, Jennifer - BA, MA, PhD
Tafarodi, Romin - BA, PhD
Takehara, Kaoi - BSc, MSc, PhD
Taylor, Margot - BA, MA, PhD
Vaccarino, Franco - BSc, MSc, PhD
van Lieshout, Pascal - MA, MA, PhD
Vartanian, Oshin - BSc, PhD

0 Course that may continue over a program. The course is graded when completed
+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Degree and Diploma Programs by Graduate Unit

Welsh, Timothy - BPHE
Winocur, Gordon - BA, MA, PhD
Yeomans, John - BA, PhD
Zakzanis, Konstantine - BA, AM, DPhil
Zelazo, Philip - PhD

Members Emeriti
Abramovitch, Rona - BA, MA, PhD
Craik, Fergus - BSc, PhD
Freedman, Jonathan - BA, PhD
Grusec, Joan - BA, PhD
Kennedy, John - BSc, MSc, PhD
Lockhart, Robert - BA, MA, PhD
Pliner, Patricia - PhD
Shettleworth, Sara - BA, MA, PhD
Smith, Marilyn - BA, PhD
Trehub, Sandra - BComm, MA, PhD
Tulving, Endel - BA, MA, PhD

Associate Members
Keightley, Michelle - BSc, MA, PhD
Public Health Sciences

Faculty Affiliation
Medicine

Degree Programs Offered
Public Health Sciences – MPH, MSc, PhD
Community Health – MScCH

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Aboriginal Health
   - Public Health Sciences, MPH, PhD
2. Addiction Studies
   - Public Health Sciences, MPH, MSc, PhD
3. Aging, Palliative and Supportive Care Across the Life Course
   - Public Health Sciences, MPH, MSc, PhD
4. Bioethics
   - Public Health Sciences, MPH, MSc, PhD
5. Cardiovascular Sciences
   - Public Health Sciences, MSc, PhD
6. Community Development
   - Public Health Sciences, MPH
7. Environment and Health
   - Public Health Sciences, MPH, MSc, PhD
8. Global Health
   - Public Health Sciences, PhD
9. Health Care, Technology and Place
   - Public Health Sciences, PhD
    - Public Health Sciences, MPH, PhD
11. Resuscitation Sciences
    - Community Health, MScCH
    - Public Health Sciences, MPH, MSc, PhD
12. Sexual Diversity Studies
    - Public Health Sciences, MPH, MSc, PhD
13. Women and Gender Studies
    - Public Health Sciences, MPH, PhD
14. Women’s Health
    - Public Health Sciences, MPH, PhD

Overview
The Dalla Lana School of Public Health enrolls more than 300 graduate students and offers both master’s and doctoral degrees. In addition, the school has more than 40 postgraduate students in its two Royal College Residency Programs: Community Medicine and Occupational Medicine. The School is also engaged in teaching at the undergraduate level in the Faculty of Medicine, Faculty of Arts and Science, Bloomberg Faculty of Nursing, and Faculty of Dentistry.

The Graduate Department of Public Health Sciences at the Dalla Lana School of Public Health offers four graduate degrees, available both full-time and part-time. Applicants are strongly advised to have some background in statistics and quantitative methods. In addition, field and employment experience are taken into consideration, especially for the Master of Public Health (MPH) degree. Further information is available at www.sph.utoronto.ca.

The Master of Public Health (MPH) degree is designed for students interested in professional and/or research careers in the community, academic, public, or private sectors. Five specializations are offered:
- Epidemiology
- Community Nutrition
- Family and Community Medicine
- Health Promotion (Social and Behavioural Health Sciences)
- Occupational and Environmental Health

The Master of Science (MSc) degree is for students interested in research and academic careers in Biostatistics.

The Master of Science in Community Health (MScCH) degree is restricted to practising health professionals and/or individuals who can demonstrate significant experience in the health-care field. Six specializations are offered:
- Addictions and Mental Health
- Family and Community Medicine
- Health Practitioner Teacher Education
- Occupational Health Care
- Public Health Nutrition (not offered in 2011/2012)
- Wound Prevention and Care

The Doctor of Philosophy (PhD) degree prepares students for research and academic careers in the Public Health Science disciplines. Specializations include:
- Biostatistics
- Epidemiology
- Social and Behavioural Health Sciences
The PhD program may be completed on a full-time or flexible-time basis.

Contact and Address
Web: www.sph.utoronto.ca
Email: dlsph.grad@utoronto.ca
Telephone: (416) 978-2058
Fax: (416) 978-1883
Degree Programs

Public Health Sciences

Master of Public Health

Minimum Admission Requirements

- Appropriate bachelor’s degree from a recognized university with a minimum mid-B average in the final year.
- At least one course in undergraduate statistics.
- Relevant work or volunteer experience.
- Each specialization has unique requirements; refer to the website for details.

Program Requirements

- 10.0 full-course equivalents (FCEs), of which 0.5 FCE is a core subject and at least 1.0 FCE is a field practicum.
  - Full-time students, depending on the area of specialization, require between 16 and 22 months to complete the program, including time spent in field practica. Specific program requirements, course sequences, and options vary by area of specialization and are fully explained on the website.
  - Part-time students have a maximum of six years to complete the program.

Advanced-Standing Option, Community Nutrition Field

Minimum Admission Requirements

Applicants to the Community Nutrition field may be eligible to be considered for the advanced-standing option with the following minimum admission requirements:

- Bachelor’s degree in food and nutrition (or equivalent) from a recognized university with a minimum mid-B average in the final year.
- Membership in a provincial dietetics regulatory body or equivalent in home country.
- Five years of professional work experience in clinical, community, administrative, or public health dietetics.

Program Requirements

- The advanced-standing option of the MPH Community Nutrition field is a coursework-only program that requires the completion of 5.0 full-course equivalents (FCEs), including 0.5 FCE of a core Public Health Sciences subject, 0.5 to 1.0 FCE in supervised field placements or practica, 3.0 FCEs in field-specific required courses; and 0.5 to 1.0 FCE in elective courses.
- Students can complete this option in 12 months of intensive full-time study or over a maximum period of five years of part-time study.

Normal Program Length: 5 sessions (2 years) full-time; 15 sessions part-time

Time Limit: 3 years full-time; 6 years part-time; 1 year full-time advanced-standing; 5 years part-time advanced-standing

Master of Science

Minimum Admission Requirements

- Appropriate bachelor’s degree from a recognized university with a minimum mid-B average in the final year.

Program Requirements

- Students specializing in Biostatistics may choose a course-only or thesis program. See the website for details.
  - Full-time students can complete the program in 12 months.
  - Part-time students have a maximum of five years to complete the program.

Normal Program Length: 3 sessions full-time; 15 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- Master’s degree in a public health science–related discipline from a recognized university, with a minimum A- standing.
- Demonstrated educational and/or professional experience that indicates a capacity to undertake research-oriented doctoral studies.
- Consult the website for details.

Program Requirements

Full-Time PhD

- Course requirements vary by specialization and are related to the student’s knowledge of the field. Consult the website.
- Successful completion of formal examinations and other assessments at specified points within the program to ensure continuation in the program.
• Demonstrated proficiency in statistics or research methods.
• A written comprehensive examination in the major area of specialization.
• Writing of a PhD thesis under the supervision of an approved thesis committee (supervisor plus two additional faculty members).
• The oral defence of the thesis before an examination committee appointed by the School of Graduate Studies.

Flexible-Time PhD
• With the approval of the graduate chair, some applicants may be admitted to a flexible-time PhD program. This program will benefit mature students with career and/or familial obligations.
• Degree requirements for the flexible-time program are identical to those for the full-time PhD program.
• A plan of study and research activities will be negotiated at initial registration, to be reviewed and updated annually.
• Students are required to register full-time for the first four years of their program. Thereafter, they may register part-time.

Normal Program Length: 4 years full-time; 5 years direct-entry; 8 years flexible-time
Time Limit: 6 years full-time; 7 years direct-entry; 7 years flexible-time

Community Health

Master of Science in Community Health

Minimum Admission Requirements
• An bachelor’s degree in a public health specialty and/or one of the regulated health professions in Ontario with the equivalent of a minimum mid-B average in the final academic year.
• Relevant academic preparation and professional experience as either a public health, community, or clinical practitioner.
• Some fields (i.e., FCM and WPC) require appropriate certification/licensure in a regulated health profession and may require a valid license to practice in Canada or the student’s home jurisdiction.
• A Diploma in Community Health may be awarded in exceptional circumstances to students who have completed 70% of the program requirements at least 3.5 full-course equivalents (FCEs) of the program requirements, including the required courses for the field, and with the approval of the department.

Program Requirements
The MScCH is a coursework-only program which requires the completion of 5.0 FCEs, including 0.5 FCE of a core Public Health Sciences subject; 0.5 to 1.0 FCE in supervised field placements or practica, normally 2.5 FCEs in field-specific required courses; and 1.0 to 1.5 FCEs in elective courses.

The specific program requirements, course sequences, and options vary by field of specialization; they are fully outlined on the website.

Students can complete the program in 12 months of intensive full-time study or over a maximum period of 5 years of part-time study.

Normal Program Length: 3 sessions full-time; 15 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Course List

Core Courses
CHL 5004H Introduction to Public Health Sciences

Biostatistics and Demography
CHL 5201H Introductory Biostatistics for Students in Biological Sciences I
CHL 5202H Introductory Biostatistics for Students in Biological Sciences II
CHL 5203H Public Health Research Methods
CHL 5204H Survey Methods in Health Sciences II
CHL 5207Y Laboratory in Statistical Design and Analysis
CHL 5208Y Advanced Laboratory in Statistical Design and Analysis
CHL 5209H Survival Analysis I
CHL 5210H Categorical Data Analysis
CHL 5220H Community Health Appraisal Methods I
CHL 5221H Community Health Appraisal Methods II
CHL 5222H Longitudinal Data Analysis
CHL 5223H Applied Bayesian Methods
CHL 5224H Statistical Genetics
CHL 5225H Advanced Statistical Methods for Clinical Trials
CHL 5250H Special Topics in Biostatistics

Community Nutrition
Courses offered by the Department of Nutritional Sciences.
NFS 1201H Public Health Nutrition
NFS 1204Y Master’s Seminars in Nutritional Sciences (Credit/No Credit)
NFS 1208H Field Observation and Nutrition Program Laboratory I
NFS 1209H Field Observation and Nutrition Program Laboratory II
Degree and Diploma Programs by Graduate Unit

NFS 1210H  Field Observation and Program Laboratory III: Management of Community Food Programs
NFS 1211H  Community Nutrition
NFS 1216H  Selected Topics in Nutrition
NFS 1218H  Recent Advances in Nutritional Sciences I
NFS 1220H  Clinical Nutrition
NFS 1221H  Nutrition Programs and Strategies
NFS 1484H  Advanced Nutrition

Epidemiology
CHL 5401H  Epidemiologic Methods I
CHL 5402H  Epidemiologic Methods II
CHL 5403H  Epidemiology of Non-Communicable Diseases
CHL 5404H  Research Methods I
CHL 5405H  Assessment of Community Health Needs
CHL 5406H  Quantitative Methods for Biomedical Research
CHL 5407H  Categorical Data Analysis for Epidemiologic Studies
CHL 5408H  Research Methods II
CHL 5409H  Cancer Epidemiology
CHL 5410H  Occupational Epidemiology
CHL 5411H  International Health
CHL 5412H  Communicable Disease Epidemiology I: Principles
CHL 5413H  Public Health Sanitation
CHL 5414H  Additional Topics in Epidemiology of Non-Communicable Diseases
CHL 5415H  Communicable Disease Epidemiology II: Practice
CHL 5416H  Environmental Epidemiology
CHL 5417H  Tobacco and Health: From Cells to Society
CHL 5418H  Scientific Overview in Epidemiology
CHL 5419H  Empirical Perspectives on Social Organization and Health
CHL 5420H  Global Health Research
CHL 5421H  Aboriginal Health
CHL 5422H  Applied Epidemiology and Public Health Policy
CHL 5423H  Doctoral Series in Epidemiology
CHL 5424H  Advanced Quantitative Methods in Epidemiology
CHL 5425H  Mathematical Epidemiology of Communicable Diseases: An Introduction
CHL 5426H  Population Perspectives for Epidemiology
CHL 5430H  Fundamentals of Genetic Epidemiology
CHL 5450H  Special Topics in Epidemiology

Family Medicine
CHL 5601H  Teaching Evidence-Based Family Medicine in the Clinical Setting
CHL 5602H  Working with Families in Family Medicine
CHL 5603Y  Social, Political, and Scientific Issues in Family Medicine
CHL 5604H  Human Development Issues for Family Medicine
CHL 5605H  Research Issues in Family Medicine/ Primary Care
CHL 5606H  Research in Family Medicine/Primary Care Methodological Applications
CHL 5607H  Teaching and Learning by the Health Professions: Principles and Theories
CHL 5608H  Teaching and Learning by the Health Professions: Practical Issues and Approaches
CHL 5609H  Continuing Education in the Health Professions
CHL 5610H  Theory and Practice of Behaviour Change in Health Professional Settings
CHL 5611H  Continuing Education Planning, Management and Evaluation in the Health Professions
CHL 5612H  The Theory and Application of Interprofessional Education for Collaborative Patient-Centred Practice
CHL 5623H  Practical Management Concepts and Cases in Leading Small Health Organizations
CHL 5630Y  Wound Prevention and Care

Global Health
CHL 5700H  Global Public Health
CHL 5701H  Doctoral Seminar, Collaborative Program in Global Health
CHL 5702H  History of International Health
CHL 5703H  Urban Epidemics
CHL 5704H  International Human Rights Law and Global Health: The Right to Health in Theory and Practice

Health Promotion
CHL 5801H  Health Promotion
CHL 5803H  Health Promotion Strategies
CHL 5804H  Health Behaviour Change
CHL 5805H  Critical Issues in Health Promotion Practice
CHL 5806H  Health Promotion Field Research
JXP 5807H  Health Communications

Occupational and Environmental Health
CHL 5902H  Advanced Occupational Hygiene
CHL 5903H  Environmental Health
CHL 5904H  Perspectives in Occupational Health and Safety—Legal and Social Context
CHL 5905H  Clinical Studies in Occupational Health
CHL 5907H  Radiological Health
CHL 5910H  Occupational and Environmental Hygiene I
CHL 5911H  Occupational and Environmental Hygiene II
CHL 5912H  Industrial Toxicology
CHL 5914H  Physical Agents I—Noise
CHL 5915H  Control of Occupational Hazards
CHL 5917H  Concepts in Safety Management
CHL 5918H  Biological Hazards in the Workplace and Community
CHL 5950H  Special Topics in Occupational and Environmental Health
Public Health Policy

CHL 5300H  Public Health Policy
CHL 5308H  Public Health Policy Analysis

Social and Behavioral Health Sciences

CHL 5101H  Social Theory and Health
CHL 5102H  Social and Political Forces in Health
CHL 5105H  Health Inequalities and Their Causes
CHL 5109H  Gender and Health
CHL 5110H  Theory and Practice of Program Evaluation
CHL 5111H  Qualitative Research Methods
CHL 5115H  Qualitative Analysis and Interpretation
CHL 5117H  A Global Perspective on the Health of Women and Children
CHL 5118H  International Health, Human Rights, and Peace-Building
CHL 5120H  Population Health Perspectives on Mental Health and Addictions
CHL 5121H  Genomics, Bioethics and Public Policy
CHL 5122H  Advanced Qualitative Research: Framing, Writing & Beyond (Credit/No Credit)
CHL 5123H  Issues in the Transdisciplinary Research and the Health of Marginalized Population
CHL 5124H  Public Health Ethics
CHL 5150H  Data Collection Methods for Public Health Research in the Field

Practica and Related Courses

CHL 5620Y+  Practicum in Family Community Medicine (Credit/No Credit)
CHL 5621H+  Extension to Practicum in Family Community Medicine (Credit/No Credit)
CHL 5690H  MSc CH Required Practicum (Credit/No Credit)
CHL 5691H  MSc CH Optional Practicum (Credit/No Credit)
CHL 6010Y+  Required MPH Practicum (Credit/No Credit)
CHL 6011H+  Required Practicum Extension (Credit/No Credit)
CHL 6020Y+  Optional MPH Practicum (Credit/No Credit)
CHL 6021H+  Optional Practicum Extension (Credit/No Credit)
CHL 6022Y+  Long Extension to Optional Practicum (Credit/No Credit)

Reading Courses and Research Projects

CHL 7001H  Directed Reading in an Approved Field of Community Health
CHL 7002H  Approved Research Project in an Approved Field of Community Health

Collaborative Program Courses

Addiction Studies

CHL 5417H  Tobacco and Health: From Cells to Society
PAS 3700H  Multidisciplinary Aspects of Addiction Studies
PAS 3701H  Advanced Research Issues in Addictions

Aging and the Life Course

AGE 1000H  Multidisciplinary Research Concepts in Palliative and Supportive Care
AGE 1200H  Interprofessional Psychosocial Oncology: Introduction to Theory and Practice
AGE 1250H  Relational Practices with Families in Oncology and Palliative Care
AGE 1500H  Advanced Research Methodologies in Palliative and Supportive Care
AGE 2000H  Social Determinants of Aging and Health
AGE 2500H  Research Topics in Aging and the Life Course
AGE 3000H  Advanced Research Seminar in Aging and the Life Course

Graduate Faculty

Full Members
Abel, Sharon - BA, MA, PhD
Allison, Kenneth - MHSc, MSc, PhD
Angus, Janet - BScN, MSN, PhD
Badley, Elizabeth - BSc, MSc, PhD
Beitchman, Joseph - MDCM
Benatar, Solomon - MD
Birn, Anne-Emmanuel - BA, MA, DSc
Bondy, Susan - BA, MSc, PhD
Boydell, Katherine Mary - BA, MHSc, PhD
Bull, Shelley - BMath, MMath, PhD
Calzavara, Liviana - BA, MA, PhD
Cassidy, David - BSc, MSc, PhD
Chalin Clark, Catherine - BSN, MA, MDiv, PhD, RN
Cheung, Angela - BA, MD, PhD
Chiarelli, Anna Maria - BSc, MHSc, DPhil
Cohen, Joana - BSc, MHSc, PhD
Colantonio, Angela - BA, BSc(OT), MHSc, PhD
Cole, Donald - MSc, MD
Corey, Mary - BSc, PhD
Corey, Paul - BSc, MA, PhD
Cote, Pierre - MSc, PhD
Cotterchio, Michelle - BSc, MPH, MSc, PhD, DPH
Crowcroft, Natasha - BA, MA, MSc, MBBS, PhD
Cusimano, Michael - MHPE, MD, PhD
Daar, Abdallah - MD
Diamond, Miriam - MSc, MSc, PhD
Dunn, James - AB, AM, PhD
Eakin, Joan - BA, MA, PhD
Einstein, Gillian - AB, PhD
Escobar, Michael - BS, PhD
Evans, Gregory - PhD
Evans, Michael - BSc, MSc, PhD
Eyssen, Gail - BSc, MSc, MSc, PhD
Ferguson, Bruce - BA, MA, PhD
Ferrence, Roberta - BA, MA, PhD

0 Course that may continue over a program. The course is graded when completed
+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
### Degree and Diploma Programs by Graduate Unit

#### Public Health Sciences

<table>
<thead>
<tr>
<th>Name</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferris, Lorraine</td>
<td>AB, MA, LLM, LLM, PhD</td>
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<tr>
<td>Fisman, David</td>
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<td>Fox, Bonnie</td>
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<td>Gastaldo, Denise</td>
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<td>Goodstadt, Michael</td>
<td>Stephen - BA, PhD</td>
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<td>Greenwood, Celia</td>
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<tr>
<td>Silverman, Frances</td>
<td>PhD</td>
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#### Members Emeriti

<table>
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<tbody>
<tr>
<td>Andrews, David</td>
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<td>Ashley, Mary Jane</td>
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<td>Clarke, E Alene</td>
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<td>Miller, Anthony</td>
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<td>Wigdor, Blossom</td>
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#### Associate Members

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<tbody>
<tr>
<td>Abelsohn, Alan</td>
<td>MBChB</td>
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<td>Adlaf, Edward</td>
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<td>Aghdassi, Ellie</td>
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<td>Austin, Peter</td>
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<td>Barbera, Maria</td>
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<td>Bassil, Kate</td>
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<td>Batty, Helen</td>
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<td>Behar, Alberto</td>
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<tr>
<td>Casanova, Amparo</td>
<td>- MD, PhD</td>
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</tbody>
</table>

#### 2011/2012 School of Graduate Studies Calendar
Degree and Diploma Programs by Graduate Unit

Ceolin, Lissa - BSc, MHSc, MHSc
Chatwood, Susan - BScN, MSc
Coleman, Brenda - BA, BScN, MSc, PhD
Copes, Ray - BA, BSc, MSc, MD
Davis, David - BA, MD
De Wit, David - MA, PhD
Deeks, Shelley - MD
Demers, Paul - BSc, MSc, PhD
Drummond, Ian - PhD
Du Mont, Janice - BA, MEd, EdD
Edwards, Richard - DPhil
Forman, Lisa - SJD
Fox, Ann - BAA, MHScc, PhD
Franche, Renee-Louise - PhD
Frankford, Rachael - MSc, MD
Freeman, Risa - BSc, MEd, MD
Ghavam-Rassoul, Abbas - BSc, MSc, PhD
Giesbrecht, Norman - BA, MA, PhD
Gould, Judy - AB, MA, PhD
Gouris, Effie - MPH, MSc
Greaves, Lorraine - BEd, BA, MA, PhD
Green, Lois - DPH, BSc, MSc, DPhil
Greer, Amy - MSc, PhD
Halton, David - BSc, PhD
Hamid, Jemila Seid - BSc, MSc, PhD
Hamilton, Hayley - PhD
Handford, Curtis - DrMed
Hershfield, Larry - BA, MPSY
Holowaty, Eric - MSc, MD, DPH
Hosen, H Roland - BSc, MSc, PhD
House, Ronald - BSc, BSc, MSc, MSc, MD, MD
Howlett, Roberta - BA, MAssc, PhD
Hwang, Stephen - MPH, MD
Hyman, Irene - BSc, MHSc, PhD
Ibrahim, Selahadin - BSc, BScCE, MSc
Irlbacher-Fox, Stephanie - BA, MA, PhD
Jackson, Suzanne - BSc, MSc, PhD
Jacobson, Nora - PhD
Jaglal, Susan - BSc, MSc, PhD
Jha, Prabhat - DrMed, MD, PhD
Jiang, Depeng - BSc, MSc, PhD
Johnson, Ian Lindsay - BSc, MSc, MD
Kakuma, Ritz - BA, MSc, PhD
Katz, Stephen - DPhil
Kaufman, Pamela - PhD
Kirsh, Vicki - PhD
Kosny, Agnieszka - BA, MA, PhD
Kotsopoulos, Joanne - BSc, MSc, PhD
Krahm, Murray - BA, MSc, MD
Kristman, Vicki - BSc, MSc, PhD
Kudla, Irene - MHSc
Kustra, Rafaal - PhD
Leatherdale, Scott - MA, PhD
Lief, Susan - MD
Li-Muller, Angela - DipEd, DipChem, MSc, PhD
Lindsay, Sally - BA, MA, PhD
Lockwood, Gina - BA, MMath
Longo, Christopher - BA, MSc, PhD
MacEachen, Ellen - BA, MSc, PhD
Magee, William - PhD
Mai, Verna - MHSc, MD
Malik, Rebecca - MD

Manuel, Douglas - DrMed
Martinuk, Alexandra - BSc, BA, MSc, PhD
Mason, Robin - BA, MEd, AM, PhD
Matheson, Flora - BA, MA
McGeer, Allison - BSc, MSc, MD
McPherson, Amy - BSc, PhD
McQuillan, Robert - BSc, MSc, MD
McVey, Gail - BA, MA, PhD
Meier, Rosemary - DPM, LMCC, MSc, MBChB
Moineddin, Rahim - BSc, MSc, MSc, PhD
Moore, Ian - BSc, MSc, PhD
Murray, Stuart - BA, MA, MA, MA, PhD
Muzzin, Linda - BA, MA, MSc, PhD
Nichol, Kathryn - BSc, MSc, MSc, PhD
Oandasan, Ivy - MHScc, MD
Orbinski, James - MA, MD
Orsted, Heather - BSc, MSc
Panzarella, Tony - BSc, MSc
Parthimos, Margie - BSc, MSc, PhD
Paterson, Andrew - MBCBH
Politzer, Jessica - BSc, MSc, PhD
Pron, Gaylene - BSc, MSc, PhD
Quiñonez, Carlos R. - MS, DMD
Ratnapalan, Savithiri - BSc, MSc, MBBS
Rea, Elizabeth - MSc, MD
Rhodes, Anne - PhD
Rosella, Laura - BSc, MHSc, PhD
Ross, Lori - PhD
Rouleau, Katherine - BSc, MHScc, MDCM
Rusen, I.D. - MSc, MD
Sacke, Armanda - BSc, PhD
Scott, Fran - BSc, MSc, MD, MD
Scott, Helen - BSc, MSc, PhD
Scott-Marshall, Heather - BSc, MSc, PhD
Seary, Andrew - BSc, PhD
Selby, Peter - MHScc, MBBS
Shain, Martin - DipCRIM, BA, MA, SJF
Sibbald, R. Gary - MD
Siddiqi, Arjumand - ScD
Smith, Lesbia - BS, MD
Smith, Peter - BSc, MSc, PhD
Sridharan, Sanjeev
Steenstra, Ivan - MSc, MSc, PhD
Stephens, Derek - BSc, BA, MSc
Sullivan, Terrence - BS, MA, PhD
Sun, Ye - BSc, MSc, PhD
Tagback, Nathan - BSc, MSc, PhD
Taiator, Yves - BA, MD
Thorsteinsdottir, Halla - PhD
Tolusso, David - BSc, MSc, PhD
Tyler, Ingrid - BSc, MEd, MHSc

Upshur, Ross Edward - BSc, BA, MA, MD
Vanderlinden, Loren - BSc, MA, MD
Villeneuve, Paul - BM, MSc, PhD
Walker, Janice - BPHE, MS, PhD
Warner, Jessica - BA, PhD
Watson, William - BA, MSc, MDCM
Wells, Samantha - BA, MA, PhD
Willison, Don - BSc, MSc, ScD
Wilson, Sarah - BSc, MSc, MD
Xu, Wei - MSc, PhD
Yi, Qi-Long - MSc, MBBS, PhD
Yuan, Lillian - MSc, MD, DHA
Zack, Martin - PhD
Public Policy and Governance

Faculty Affiliation
Arts and Science

Degree Programs Offered
Public Policy – MPP, JD/MPP

Collaborative Programs
The following collaborative program is available to students in the participating degree program listed below:
1. Ethnic and Pluralism Studies
   • Public Policy, MA

Overview
The School of Public Policy and Governance is a professional school offering a two-year Master of Public Policy degree. The program degree is highly interdisciplinary and bridges the spheres of domestic policy and international or global policy, providing comprehensive coverage of the broad sweep of complex issues facing modern governments and other policy-making organizations.

The MPP program features core instruction on a small-group, cohort-based model. In addition to the core material considered essential for policy practice, students take electives both within the school and in the broader university. Integrating seminars are led by faculty members. Invited visiting public sector leaders and external researchers bridge theory and practice, providing contact with senior professionals in government and the broader public, private, and community sectors. The program also provides access to courses and research facilities available in many other graduate departments, centres, and institutes across the university.

Contact and Address
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Email: public.policy@utoronto.ca
Telephone: (416) 978-5120
Fax: (416) 978-5079
School of Public Policy and Governance
University of Toronto
Canadiana Building
3rd Floor, 14 Queen’s Park Crescent West
Toronto, Ontario M5S 3K9
Canada

Degree Programs

Public Policy

Master of Public Policy

Minimum Admission Requirements
• An appropriate bachelor’s degree with an overall standing equivalent to at least a University of Toronto B+ in the final year.
• Program is open to applicants of all disciplinary backgrounds. A basic competency in mathematics and a basic understanding of the Canadian political system are assumed. Applicants without such preparation should consult with the Program Director. University-level courses in these areas are not required for admission.

Program Requirements
Students normally complete:
• 8.0 full-course equivalents (FCEs) including 6.0 required core FCEs (see list of required core courses below);
• 2.0 FCEs from the list of electives offered by university-wide graduate units;
• PPG 2006Y (a mandatory internship), usually in the summer between first and second year or during the second year. The internship research report is graded on a credit/no-credit basis.

Normal Program Length: 5 sessions (20 months) full-time
Time Limit: 3 years full-time

Combined Juris Doctor/
Master of Public Policy

The Combined Juris Doctor/Master of Public Policy is designed for students interested in studying the intersections of law and public policy. The combined program permits the completion of both degrees in four years, rather than the five years it would take to acquire them independently.

Applicants must apply to each program separately; they should indicate on their applications that they wish to be considered for the Combined JD/MPP program. Students are registered in the Faculty of Law in year one of the program, the School of Public Policy and Governance for year two of the program, and in both the Faculty of Law (full-time) and the School of Public Policy and Governance (part-time) for years three and four.

Minimum Admission Requirements
Each student in the combined program shall meet the respective admission requirements of the Faculty of
Law JD program and the Master of Public Policy program. Students may be admitted to the combined program either at the time of their first application or they can apply to the MPP program during their first year of JD studies. Whether admitted at the outset or after the first year of the JD program; however, all students will register in the School of Public Policy and Governance only after their first year in the JD program.

Program Requirements

- Year 1: full-time in Faculty of Law
  - Year 2: full-time in School of Public Policy and Governance
  - Summer between years 2 and 3: full-time in School of Public Policy and Governance
  - Year 3: full-time in Faculty of Law and part-time in the School of Public Policy and Governance
  - Year 4: full-time in Faculty of Law and part-time in the School of Public Policy and Governance

Within this combined four-year program, students must meet all the respective degree requirements of the MPP and the JD programs, including:

- In year one, successfully complete all first-year courses of the JD program at the Faculty of Law, with at least a B standing.
- In year two, successfully complete all first-year requirements of the MPP (with the exception of MPP 2001H, but including the equivalent of 0.5 FCE credits in the Faculty of Law), with at least a B+ standing.
- In the summer between years two and three, complete a law-related summer policy internship (1.0 FCE) under the aegis of the School of Public Policy and Governance (PPG 2006Y).
- In years three and four, successfully complete:
  a) a further 4.0 FCEs from the School of Public Policy and Governance including the MPP capstone seminar and other second-year core requirements (PPG 2008H, PPG 2002H, PPG 2011H, PPG 2003H), with a minimum of 1.0 MPP FCE in year three; and
  b) 41–45 credits at the Faculty of Law, including a perspectives course, a moot (compulsory or competitive), and a Supervised Upper-Year Research Paper (SUYRP), with a minimum of 18 JD credits in year three.
- Students enrolled in combined programs must complete the requirements of both programs in order to graduate in each program. No diplomas will be awarded until the requirements for each program are fulfilled.

At the completion of the four-year combined program, the successful student is awarded both the Juris Doctor and the Master of Public Policy degrees, which, if taken separately, would require five years of study.

Time Limit: 4 years full-time

Course List

Required Core Courses

- PPG 1000H Governance and Institutions
- PPG 1001H The Policy Process
- PPG 1022H Microeconomics for Policy Analysis
- PPG 1003H Macroeconomics for Policy Analysis
- PPG 1004H Quantitative Methods for Policy Analysis
- PPG 1005H The Social Context of Policy-Making
- PPG 1007H Putting Policy into Action: Strategic Implementation of Public Objectives
- PPG 2001H Integrating Seminars – Current Issues/Problems in Public Policy and Practice I
- PPG 2002H Integrating Seminars – Current Issues/Problems in Public Policy and Practice II
- PPG 2003H Capstone Course: Integrating Issues in Public Policy
- PPG 2008H Globalization, Internationalization, and Public Policy
- PPG 2011H Ethics and the Public Interest

Elective Courses

Offered by the School of Public Policy and Governance.

- PPG 2010H Panel Data Methods for Public Policy Analysis
- PPG 2013H Topics in Public Policy: Federalism and Intergovernmental Relations in the Policy-Making Process
- PPG 2014H Topics in Public Policy: The Future of Public Service
- PPG 2015H Topics In Public Policy: Policy Development
- PPG 2016H Public Policy for Children
- PPG 2017H Topics in Public Policy: Urban Policy
- PPG 2021H Priority Topics in Public Administration
- PPG 2020H MPP Reading Course
- JRP 2000H Religion and Public Policy

Internship

- PPG 2006Y MPP Internship

Graduate Faculty

Full Members

- Anderson, Geoff - MD
- Baker, Michael - BComm, MA, PhD
- Benjamin, Dwayne - BSc, MA, PhD
- Byer, Philip - BS, MS, PhD
- Cameron, David - PhD, Graduate Chair, Fell Royal Society Canada
- Carter, Michael - BM, MMath, PhD
- Choudhry, Sujit - LLB, LLM
- Coyte, Peter C - BA, MA, PhD
- Flood, Colleen - LLB, LLM, SJD
- Frazer, Garth - BE, BM, MPH, MA, PhD
- Gunderson, Morley - BA, MA, PhD
- Haddow, Rodney - BA, MSc, PhD
Hansen, Randall - BA, MPH, PhD, Canada Research Chair
Heath, Joseph - BA, MA, PhD
Karney, Bryan - BSc, MEng, PhD
Levin, Benjamin - BA, MEd, PhD
MacLean, Heather - BASc, MASc, MBA, PhD
Miller, Eric - BASc, MASc, PhD
Myles, John - BA, BTH, MA, PhD
Nevitte, Neil - BA, MA, PhD, Fell Royal Society Canada
Oreopoulos, Philip - BA, MA, PhD
Peng, Ito - BSW, BSc, MA, PhD
Perlman, Michal - BA, MA, PhD
Pesando, James - BA, MA, PhD
Reeve, Douglas - BSc, MASc, PhD
Reitz, Jeffrey - PhD
Rittich, Kerry - BMus, LLB, SJD
Simeon, Richard - BA, MA, PhD, Fell Royal Society Canada
Skogstad, Grace - DrRerPol
Smart, Michael - BA, BA, PhD
Stabile, Mark - MA, MPH, PhD (Director)
Stein, Janice - BA, MA, PhD
Trebilcock, Michael - LLB, LLM
White, Graham - BA, MA, PhD
White, Linda - BA, MA, PhD
Williams, Melissa - AB, AM, PhD
Wolfe, David - BA, MA, PhD
Wong, Joseph - BA, MA, PhD, Canada Research Chair

Associate Members
Anand, Anita - BA, LLB, MA, LLM
Breunig, Christian - MA, MA, PhD
Green, Andrew - LLB, BA, LLM, MA, PhD
Grootendorst, Paul - BA, MEC, PhD
Rehabilitation Science

Faculty Affiliation
Medicine

Degree Programs Offered
Rehabilitation Science – MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Aging, Palliative and Supportive Care Across the Life Course
   - Rehabilitation Science, MSc, PhD
2. Bioethics
   - Rehabilitation Science, MSc, PhD
3. Biomedical Engineering
   - Rehabilitation Science, MSc, PhD
4. Cardiovascular Sciences
   - Rehabilitation Science, MSc, PhD
5. Global Health
   - Rehabilitation Science, PhD
6. Health Care, Technology and Place
   - Rehabilitation Science, MSc, PhD
7. Health Services and Policy Research
   - Rehabilitation Science, MSc, PhD
8. Neuroscience
   - Rehabilitation Science, MSc, PhD
9. Resuscitation Science
   - Rehabilitation Science, MSc, PhD
10. Women’s Health
    - Rehabilitation Science, MSc, PhD

Overview
Rehabilitation Science is the systematic study of promoting, maintaining or restoring human function, mobility, occupation and well-being. Using basic and applied methods, the science is focused on phenomena at the level of the cell, person, family, community, or society to develop and evaluate theories, models, processes, measures, interventions, and policies to prevent, reverse, or minimize impairments, enable activity, and facilitate participation.

By its very nature, rehabilitation science is multidisciplinary. The Graduate Department of Rehabilitation Science offers graduate programs leading to the degrees of Master of Science and Doctor of Philosophy. To capture the full breadth of rehabilitation, the expertise of our faculty and the research of our students, Rehabilitation Science has identified six fields of study:

- Movement Science
- Occupational Science
- Practice Science
- Rehabilitation Health Services Studies
- Rehabilitation Technology Sciences
- Social and Cognitive Rehabilitation Sciences

Contact and Address
Web: www.gdrs.utoronto.ca
Email: rehab.science@utoronto.ca
Telephone: (416) 978-0300
Fax: (416) 946-8762
Graduate Department of Rehabilitation Science
University of Toronto
Rehabilitation Sciences Building
Room 160, 500 University Avenue
Toronto, Ontario M5G 1V7
Canada

Degree Programs

Rehabilitation Science

Master of Science

Minimum Admission Requirements
- Students are accepted under the General Regulations of the School of Graduate Studies.
- BSc degree with special training in occupational therapy, physical therapy, or a related field from a recognized university. A B+ average in the final two years of undergraduate study is required.
- Evidence of written and verbal proficiency in English is required for applicants whose first language is not English and must be demonstrated through the successful completion of one of the following tests:
  - Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE) with the following minimum scores:
    - paper-based TOEFL: 600 and 5 on the TWE.
    - Internet-based TOEFL (IBT): 100/120 and 22/30 on the writing and speaking sections.
  - Michigan English Language Assessment Battery (MELAB): minimum score of 87
  - International English Language Testing System (IELTS): minimum score of 7.5
- U of T School of Continuing Studies Academic Preparation: See SGS General Regulations.
Program Requirements

Students may be required to take extra courses in addition to the degree requirements listed below.

Fields:
Movement Science
Occupational Science
Rehabilitation Health Services Studies
Rehabilitation Technology Sciences
Social and Cognitive Rehabilitation Sciences

- Complete coursework and a thesis based on the student’s research.
- Successful completion of 2.5 full-course equivalents (FCEs) as follows:
  - REH 1100H Theory and Research in Rehabilitation Science
  - REH 2001Y Rehabilitation Presentations and Proceedings
  - 0.5 FCE in research methods
  - 0.5 FCE in a related field of study
- Submission of a thesis and completion of an oral examination of the thesis.
- Minimum of 12 months of full-time study. Students should be aware that the completion of the thesis may take longer.
- Exceptional students may be considered for enrolment in a part-time program. Requirements are the same as for the full-time MSc program with the following exceptions:
  - Residency requirements are waived.
  - Coursework must be completed within two years of initial registration.
  - Program must be completed within five years of registration.
  - Completion of an annual learning contract and program map planned with the supervisor.
  - Part-time students should be aware that it is the student’s responsibility to modify his or her work schedule to accommodate required coursework since course times are not flexible.

Field Practice Science

- Complete coursework and a thesis based on the student’s research.
- Successful completion of 3.5 FCEs as follows:
  - REH 1100H Theory and Research in Rehabilitation Science
  - REH 2001Y Rehabilitation Presentations and Proceedings
  - 0.5 FCE in research methods
  - REH 3301H Rehabilitation Leadership: Transforming Practice
  - REH 3302H Determinants of Rehabilitation Practice
  - REH 3303H Rehabilitation Clinical Practicum

- Submission of a thesis and completion of an oral examination of the thesis.
- The part-time option is not available in the Practice Science field.

Normal Program Length: 6 sessions full-time; 15 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- Appropriate University of Toronto MSc degree, or a MScOT or MScPT degree (with a research component), or equivalent degree from a recognized university; a minimum A- average in the master’s degree is required.
- Well qualified students with excellent research potential holding a BSc degree may be considered for direct admission to the PhD program. These applicants must:
  - have a minimum A+/A average (GPA 4.0) in an undergraduate program from a recognized university.
  - have previous relevant research experience, outstanding references and a personal recommendation from a potential supervisor.
- Applicants whose first language is not English must provide evidence of written and verbal proficiency in English by completing one of the following tests:
  - Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE) with the following minimum scores:
    - paper-based TOEFL: 600 and 5 on the TWE.
    - Internet-based TOEFL (IBT): 100/120 and 22/30 on the writing and speaking sections.
  - Michigan English Language Assessment Battery (MELAB): minimum score of 87
  - International English Language Testing System (IELTS): minimum score of 7.5
  - U of T School of Continuing Studies Academic Preparation. See SGS General Regulations.

Program Requirements

Fields:
Movement Science
Occupational Science
Rehabilitation Health Services Studies
Rehabilitation Technology Sciences
Social and Cognitive Rehabilitation Sciences

- A minimum of 2.0 FCEs as follows:
  - REH 3100H Advanced Rehabilitation Research Issues or equivalent
Degree and Diploma Programs by Graduate Unit

Rehabilitation Science

Field Practice Science

- In addition to the program requirements above, students in the Practice Science field must complete the following 1.5 FCEs:
  - REH 3301H Rehabilitation Leadership: Transforming Practice
  - REH 3302H Determinants of Rehabilitation Practice
  - REH 3303H Rehabilitation Clinical Practicum

Direct entry: Students in all fields who are admitted on the basis of a bachelor’s degree must complete the following course requirements in addition to those listed above:

- REH 1100H Theory and Research in Rehabilitation Science
- REH 1130H Theory and Research in Occupational Science, or REH 1140H Theory and Research in Physical Therapy
- REH 1120H Research Methods for Rehabilitation Science

Normal Program Length: 4 years full-time; 5 years direct-entry

Time Limit: 6 years full-time; 7 years direct-entry

Course List

Since not all courses are offered each academic year, the department should be consulted each session as to course offerings.

- REH 1100H Theory and Research in Rehabilitation Science
- REH 1120H Research Methods for Rehabilitation Science
- REH 1130H Theory and Research in Occupational Science
- REH 1510H Disordered and Restorative Motor Control
- REH 2000H Individual Reading and Research Course
- REH 2001Y0 Rehabilitation Presentations and Proceedings (Credit/No Credit)
- REH 3001Y0 Advanced Rehabilitation Presentation and Proceedings
- REH 3100H Advanced Rehabilitation Research Issues
- REH 3120H International Issues in Disability and Rehabilitation
- REH 3301H Rehabilitation Leadership: Transforming Practice
- REH 3302H Determinants of Rehabilitation Practice
- REH 3303H Rehabilitation Clinical Practicum

Graduate Faculty

Full Members

Agur, Anne - BSc, MSc, PhD
Badley, Elizabeth - BSc, MSc, PhD
Berg, Katherine - BPT, BSc(PT), MSc, PhD (Chair and Graduate Chair)
Black, Sandra - BSc, MD
Boschen, Kathryn Ann - BA, MA, PhD
Bressmann, Tim - MPhil, PhD
Brooks, Dina - BSc(PT), MSc, PhD (Coordinator of Graduate Studies)
Cameron, Jill - BS, MS, PhD
Carnahan, Heather - BPHE, MSc, PhD
Chau, Tom - PhD
Colantonio, Angela - BA, BSc(OT), MHSc, PhD
Cott, Cheryl - DIPP, BPT, MSc, PhD
Davis, Aileen - BSc(PT), MSc, PhD
Dawson, Deirdre - BSc, MSc, PhD
Fernie, Geoffrey - BSc, PhD
Frank, John - BSc, MSc, MD
Girolametto, Luigi - BA, MSc, PhD
Green, Robin - PhD
Iwama, Michael - BSc(OT), BSc, MSc, PhD
Jaglal, Susan - BSc, MSc, PhD
Kirsh, Bonnie - BSc(OT), MEd, PhD
Macarthur, Colin - BS, MSc, MBChB, PhD
Martino, Rosemary - BS, MA, DPhil
McIlroy, William - BSc, PhD
Mihailidis, Alex - BASc, MASc, PhD
Mustard, Cameron - AB, ScD
Polatajko-Howell, Helene - PhD
Popovic, Milos - DIPING, PhD
Rappolt, Susan - BSc(OT), MSc, PhD
Reid, Denise - BSc(OT), MEd, PhD
Renwick, Rebecca - DipOT, BA, PhD
Roy, Eric - BSc, MPE, PhD
Streiner, David - PhD
Stuss, Donald - BPhil, MA, PhD
Thomas, Scott - BSc, MSc, PhD
van Lieshout, Pascal - MA, MA, PhD
Verrier, Mary (Molly) - DipOT, MHSc
Yoshida, Karen - BSc, BPHE, MSc, PhD
Young, Nancy - BSc(PT), MSc

Members Emeriti

Friedland, Judith - BA, MA, PhD

Associate Members

Beaton, Dorcas - BSc(OT), MSc, PhD
Biddiss, Elaine Alisa - MASc, PhD
Cameron, Debra - BSc(OT), MEd, PhD
Campbell, Kent - BSc, PhD
Cockburn, Lynn - BSc(OT), BCom, MEd, MPH, PhD
Comper, Paul - BA, MA, PhD
Evans, Catherine - BSc, MSc, PhD
Gibson, Barbara - MSc, BMR(P/T), PhD
Goldstein, Roger - MSc
Grace, Sherry - BA, MA, PhD
Graveline, Chantal - BSc, MSc
Hunter, Judith - BPT, MSc, PhD
Keightley, Michelle - BSc, MA, PhD
Koeberle, Paulo - BS, PhD
Landry, Michel - BSc(PT), MSc(PT), PhD
Lunsky, Yona - PhD
Mochizuki, George - BPHE, MSc, PhD
Morshead, Cindi Marie - BS, PhD
Nixon, Stephanie - BHSC(P/T), BA, PhD
Nussbaum, Ethne - BSc, PhD
Perry, Stephen - BS, MSc, PhD
Rigby, Patty - DipOT, MHSc
Ryan, Stephen - BEng
Salbach, Nancy - BSc(PT), BS, MSc, PhD
Secker, Barbara - BA, AM, PhD
Shein, Fraser - PhD
Steele, Catriona - BA, MHSc, PhD
Switzer-Mcintyre, Sharon - BSc, BPHE, PhD
Turner, Gary - MPSY
Wright, Virginia - BSc, MSc
Zabjek, Karl - BSc, MCLSC, PhD
Religion

Faculty Affiliation
Arts and Science

Degree Programs Offered
Religion – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. **Bioethics**
   - Religion, MA, PhD
2. **Book History and Print Culture**
   - Religion, MA, PhD
3. **Diaspora and Transnational Studies**
   - Religion, MA, PhD
4. **Editing Medieval Texts**
   - Religion, PhD
5. **Environmental Studies**
   - Religion, MA, PhD
6. **Ethnic and Pluralism Studies**
   - Religion, MA, PhD
7. **Jewish Studies**
   - Religion, MA, PhD
8. **Sexual Diversity Studies**
   - Religion, MA, PhD
9. **South Asian Studies**
   - Religion, MA, PhD
10. **Women and Gender Studies**
    - Religion, MA, PhD
11. **Women’s Health**
    - Religion, MA, PhD

Overview
The Department for the Study of Religion offers Master of Arts and Doctor of Philosophy programs in the study of religion and facilitates research and publication on religion. The department consolidates the vast curricular and faculty resources that are distributed throughout the many departments and colleges of the University and enables its students to use any resource in the University which serves the study of religion.

The department conceives the academic study of religion in interdisciplinary terms and embraces humanistic, historical, and social scientific approaches and methods. Programs of study are constructed individually to fit the specific needs and interests of each student. As a guideline for areas of strength in the department, we are organized by the following fields:

- Buddhist Studies
- Christianity
- Hinduism and South Asian Religions
- Islam
- Judaism
- Religion, Culture and Politics
- Religion, Ethics and Modern Thought
- Religion and Medicine
- Religions of Mediterranean Antiquity

These fields do not determine program requirements. Most faculty and students participate in multiple fields.

At the doctoral level, from the point of admission onward, student programs must be matched with the expertise of at least three professors who help supervise the student’s work. The department’s Graduate Studies Handbook, available on the Web and from the department, gives full information on admissions and programs as well as the research and teaching interests of the faculty.

Contact and Address
Web: www.religion.utoronto.ca
Email: religion.grad@utoronto.ca
Telephone: (416) 978-3057
Fax: (416) 978-1610

Department for the Study of Religion
University of Toronto
Room 305, 170 St. George Street
Toronto, Ontario M5R 2M8
Canada

Degree Programs
Religion

Master of Arts

Minimum Admission Requirements
- Normally, an appropriate bachelor’s degree with specialization in religion or a cognate discipline from a recognized university, broadly equivalent to the University of Toronto’s BA Specialist degree in religion, with at least B+ standing in the final year. Students without appropriate preparation may be required to take additional work either before admission or during an extended master's program.

Program Requirements
- **Courses.** 4.0 full-course equivalents (FCEs); included in the total are RLG 2000Y Major Research Paper and RLG 1200H MA Method and Theory
Workshop. In some cases, students may be required to take additional courses, some of which may be at the undergraduate level. Students may be required to take more than 4.0 FCEs if their preparation is considered deficient in a subject required for their program. Satisfactory performance requires the completion of all coursework taken for graduate credit with an average grade of at least A-.

- **Language(s).** Reading knowledge of at least one language, in addition to English, selected from languages of modern scholarship and/or necessary source languages, as approved by the Director of Graduate Studies.

**Normal Program Length:** 3 sessions full-time; 6–8 sessions part-time

**Time Limit:** 3 years full-time; 6 years part-time

**Doctor of Philosophy**

**Minimum Admission Requirements**

- Normally, completion of all requirements of the department’s MA program, or a comparable program at another university, with an average of at least A- in coursework and with no individual course falling below B.

**Program Requirements**

- **Courses.** A minimum of 3.0 full-course equivalents (FCEs), including RLG 1000Y *Method and Theory in the Study of Religion* and at least 0.5 FCE outside the area of specialization. Students may be required to take more than 3.0 FCEs if their preparation is considered deficient in a subject required for their program. Satisfactory performance requires the completion of all coursework taken for graduate credit with an average grade of at least A-.

- **Languages.** Reading knowledge of at least two languages in addition to English, selected from languages of modern scholarship and necessary source languages provided that at least one shall be a language of modern scholarship, as approved by the Director of Graduate Studies. The language requirements must be fulfilled before writing the general examinations.

- **General Examinations.** Upon completion of coursework, the language requirements, and the thesis pre-proposal, the student’s supervisory committee will set general examinations to assess the student’s readiness for thesis research. Written examinations will cover (a) the student’s area of specialization, and (b) at least one important cognate area. An oral examination on all materials assigned for the general examinations will follow. The general examinations must be completed during the third year of doctoral study.

- **Thesis Proposal.** Within three months of successful completion of the General Examinations, the student must submit a thesis proposal for approval by the student’s supervisory committee.

- **Thesis.** Upon approval of the thesis proposal by the student’s supervisory committee, the candidate proceeds to research and write a doctoral thesis which must be defended successfully at a doctoral final oral examination.

- **Colloquium Presentation.** Once general examinations are completed, PhD candidates are required to participate at least once in the Department for the Study of Religion’s colloquium before undertaking their doctoral final oral examination.

- **Doctoral Final Oral Examination.** The supervisory committee must approve the completed thesis before it is submitted for examination.

- **Residence.** Students are required to spend at least two fall and winter sessions on campus in full-time study, normally those of the first two academic years of a program.

**Normal Program Length:** 4 years (some students may take longer)

**Time Limit:** 6 years full-time

**Course List**

Not all courses are offered every year. Please consult the department’s website, which lists the courses the department will offer this year as well as those cross-listed from other departments.

**Religion**

RLG 1000Y *Method and Theory in the Study of Religion*
RLG 1200H *The MA Method and Theory Workshop*
RLG 1501H *Directed Reading*
RLG 1502H *Directed Reading*
RLG 2000Y *Major Research Paper*
RLG 2007H *Ethics, Society, and Technology*
RLG 2008H *Sex, Gender, and the Body in Religious Perspective*
RLG 2011H *Natural Law in Judaism and Christianity I*
RLG 2012H *Natural Law in Judaism and Christianity II*
RLG 2016H *Radical Evil: Religious, Philosophical and Psychological Response*
RLG 2025H *Religious Thought*
RLG 2028H *Enemies of God: Religion and Violence in a (Post) Modern Time*
RLG 2060H *Religion and Philosophy in the European Enlightenment*
RLG 2062H *Modern Hermeneutics and Religion*
RLG 2065H *The Presuppositions of Interreligious Dialogue*
RLG 2071H *Religion and Philosophy*
RLG 2080H *Origins, Evolution and the Psychology of Religious Experience*
### Degree and Diploma Programs by Graduate Unit

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLG 2085H</td>
<td>Genealogies of Christianity</td>
</tr>
<tr>
<td>RLG 2088H</td>
<td>The Birth of Anthropology and the study of Primitive Religion</td>
</tr>
<tr>
<td>RLG 2089H</td>
<td>The Study of Non-Literate Religions in Nineteenth- and Early Twentieth-Century France</td>
</tr>
<tr>
<td>RLG 2090H</td>
<td>Topics in Psychology of Religion</td>
</tr>
<tr>
<td>RLG 3143H</td>
<td>Hebraica</td>
</tr>
<tr>
<td>RLG 3144H</td>
<td>Isaiah and Prophecy in the Early Judaism and Christianity</td>
</tr>
<tr>
<td>RLG 3150H</td>
<td>Reconcepting the Revelatory in Jewish Antiquity</td>
</tr>
<tr>
<td>RLG 3190H</td>
<td>Pseudepigraphy in Ancient Mediterranean Religion</td>
</tr>
<tr>
<td>RLG 3201H</td>
<td>Topics in Christian Origins I</td>
</tr>
<tr>
<td>RLG 3210H</td>
<td>Mani and the Kingdom of Light – Exploring an Alternate Christianity</td>
</tr>
<tr>
<td>RLG 3228H</td>
<td>Social History of the Early Jesus Movement</td>
</tr>
<tr>
<td>RLG 3230H</td>
<td>Comparative Theology Seminar</td>
</tr>
<tr>
<td>RLG 3232H</td>
<td>Sacred Space in the Christian Tradition</td>
</tr>
<tr>
<td>RLG 3235H</td>
<td>Liberation Theology: Examining the Work of Gustavo Gutiérrez and Thomas Berry</td>
</tr>
<tr>
<td>RLG 3236H</td>
<td>Religious Pluralism and the Church</td>
</tr>
<tr>
<td>RLG 3237H</td>
<td>Religion and Social Reform in Canada</td>
</tr>
<tr>
<td>RLG 3238H</td>
<td>Latin American Liberation Theology</td>
</tr>
<tr>
<td>RLG 3243H</td>
<td>The Synoptic Problem</td>
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<tr>
<td>RLG 3248H</td>
<td>Gospel of John and the Jesus Traditions</td>
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<tr>
<td>RLG 3249H</td>
<td>Studies in the Synoptic Gospels</td>
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<tr>
<td>RLG 3250H</td>
<td>Heresy and Deviance in Early Christianity</td>
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<tr>
<td>RLG 3252H</td>
<td>The Letter of James and Early Christian Wisdom</td>
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<tr>
<td>RLG 3258H</td>
<td>Salvation as Liberation in Paul</td>
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<tr>
<td>RLG 3260H</td>
<td>Twentieth-Century Political Philosophy within Christianity</td>
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<tr>
<td>RLG 3261H</td>
<td>Augustine, Aquinas, Lonergan</td>
</tr>
<tr>
<td>RLG 3265H</td>
<td>Christian Spirituality and Modern Culture</td>
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<tr>
<td>RLG 3266H</td>
<td>God and Evil</td>
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<tr>
<td>RLG 3270H</td>
<td>Christianity and Crisis in North America</td>
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<tr>
<td>RLG 3272H</td>
<td>Jews and Judaism in Christian Traditions</td>
</tr>
<tr>
<td>RLG 3275H</td>
<td>Varieties of North American Christianity</td>
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<tr>
<td>RLG 3280H</td>
<td>Christianities of South Asia</td>
</tr>
<tr>
<td>RLG 3290H</td>
<td>Words and Worship in Christian Cultures</td>
</tr>
<tr>
<td>RLG 3410H</td>
<td>Reading Practices in East Asian Religions</td>
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<tr>
<td>RLG 3415H</td>
<td>Theravada Practice</td>
</tr>
<tr>
<td>RLG 3446H</td>
<td>Causation, Movement and Time in Buddhist Scholastic Debate</td>
</tr>
<tr>
<td>RLG 3448H</td>
<td>History of Sanskrit Buddhist Tantric Literature</td>
</tr>
<tr>
<td>RLG 3450H</td>
<td>Buddhism and Science</td>
</tr>
<tr>
<td>RLG 3454H</td>
<td>Readings in Tibetan Buddhism I</td>
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<tr>
<td>RLG 3455H</td>
<td>Readings in Tibetan Buddhism II</td>
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<tr>
<td>RLG 3456H</td>
<td>Tantra in Tibet</td>
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<tr>
<td>RLG 3458H</td>
<td>Rhetoric and Discipline in Buddhist Studies</td>
</tr>
<tr>
<td>RLG 3460H</td>
<td>Sanskrit Readings</td>
</tr>
<tr>
<td>RLG 3461H</td>
<td>Basic Sanskrit Readings (2)</td>
</tr>
<tr>
<td>RLG 3480H</td>
<td>Religion and Magic in Asia</td>
</tr>
<tr>
<td>RLG 3490H</td>
<td>Buddhist Auto/biography</td>
</tr>
<tr>
<td>RLG 3501H</td>
<td>Special Topics in Islamic Studies</td>
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<tr>
<td>RLG 3505H</td>
<td>Topics in Islamic Religious Literature</td>
</tr>
<tr>
<td>RLG 3510H</td>
<td>Studies in Islamic Thought and Spirituality</td>
</tr>
<tr>
<td>RLG 3512H</td>
<td>Introduction to Islamic Law</td>
</tr>
<tr>
<td>RLG 3514H</td>
<td>Ismaili History and Thought: The Persian Tradition</td>
</tr>
<tr>
<td>RLG 3520H</td>
<td>Disciplining Islam</td>
</tr>
<tr>
<td>RLG 3522H</td>
<td>Dreams, Visions and the Enlightenment</td>
</tr>
<tr>
<td>RLG 3590H</td>
<td>Islam and Sexuality</td>
</tr>
<tr>
<td>RLG 3610H</td>
<td>Wisdom in Second Temple Judaism</td>
</tr>
<tr>
<td>RLG 3615H</td>
<td>Post-Holocaust Jewish Thought</td>
</tr>
<tr>
<td>RLG 3621H</td>
<td>Modern Jewish Thought</td>
</tr>
<tr>
<td>RLG 3622H</td>
<td>Maimonides and His Modern Interpreters</td>
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<tr>
<td>RLG 3634H</td>
<td>Worship and Scripture at Qumran</td>
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<tr>
<td>RLG 3645H</td>
<td>The Jewish Legal Tradition</td>
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<tr>
<td>RLG 3647H</td>
<td>Early Rabbinic Judaism</td>
</tr>
<tr>
<td>RLG 3651H</td>
<td>Hellenistic-Jewish Thought</td>
</tr>
<tr>
<td>RLG 3653H</td>
<td>Jewish Exegetical Traditions in Antiquity</td>
</tr>
<tr>
<td>RLG 3655H</td>
<td>Readings in Jewish Literature (200 BCE–200 CE)</td>
</tr>
<tr>
<td>RLG 3691H</td>
<td>Themes in Jewish Studies I</td>
</tr>
<tr>
<td>RLG 3710H</td>
<td>Newar Religion</td>
</tr>
<tr>
<td>RLG 3715H</td>
<td>Readings in Hindu Tantra</td>
</tr>
<tr>
<td>RLG 3721H</td>
<td>Ramayana in Literature, Theology and Political Imagination</td>
</tr>
<tr>
<td>RLG 3744H</td>
<td>Hindu Epics</td>
</tr>
<tr>
<td>RLG 3745H</td>
<td>Hindu Myths and Mythology</td>
</tr>
<tr>
<td>RLG 3750H</td>
<td>Topics in South Asian Religions</td>
</tr>
<tr>
<td>RLG 3760H</td>
<td>Vedanta Through the Ages</td>
</tr>
<tr>
<td>RLG 3762H</td>
<td>Religion and Aesthetics in South Asia</td>
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<tr>
<td>RLG 3764H</td>
<td>Readings in Sanskrit Philosophy</td>
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<tr>
<td>RLG 3931H</td>
<td>Topics in North American Religions</td>
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<tr>
<td>RLG 4001H</td>
<td>Directed Reading: TST Seminar</td>
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<tr>
<td>RLG 4004H</td>
<td>Colloquium Presentation</td>
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</tbody>
</table>

### Joint Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>JAR 6510H</td>
<td>From Theory to Ethnography: Anthropological Approaches to Religion</td>
</tr>
<tr>
<td>JPR 2057H</td>
<td>Democracy and the Secular</td>
</tr>
<tr>
<td>JRG 2050H</td>
<td>Religion, Culture, and Global Politics</td>
</tr>
<tr>
<td>JRP 2000H</td>
<td>Religion and Public Policy</td>
</tr>
</tbody>
</table>

### Other Departments

Other departments and collaborative programs (see programs listed at the beginning of this entry) offer courses that may contribute to graduate programs in the Study of Religion. Visit our website for a current listing of such course offerings from:
- Anthropology
- Art
- East Asian Studies
- English
- Ethnic and Pluralism Studies
- German
- History
- History and Philosophy of Science and Technology
- Italian Studies
- Law

www.sgs.utoronto.ca/calendar/2011-12
Degree and Diploma Programs by Graduate Unit

Medieval Studies
Near and Middle Eastern Civilizations
Philosophy
Political Science
Sociology
Toronto School of Theology

Graduate Faculty

Full Members
Abrey, L Jane - BA, MA, MPH, PhD
Ahn, Juhn - BA, MA, PhD
Airhart, Phyllis - BA, MA, PhD
Argarate, Pablo - STB, DPhil, DTH
Bergen, Doris - MA, PhD
Black, Deborah - BA, MA, PhD
Boddy, Janice - BA, MA, PhD
Bryant, Joseph - MA, PhD
Cobb, Michael - BA, MA, AM, PhD
Cochelin, Isabelle - DipdESup, BA, MA, PhD
Coleman, Simon - BA, PhD
Cunningham, Hilary - PhD
Dhand, Arti - MA, PhD
DiCenso, James - PhD
Donaldson, Terence - BSc, MTH, DTH
Dooley, Ann - BA, MA, PhD
Eisenbichler, Konrad - BA, MA, PhD
Emmrich, Christoph - PhD
Emon, Anver - LLB, BA, LLM, MA, PhD, SJD
Everett, Nicholas - BA, MA, PhD
Fadel, Mohammad - BA, JD, PhD
Fox, Harry - BSc, BA, MS, MA, PhD
Franks, Paul - AB, MA, PhD
Garrett, Frances - BA, MA, PhD
Gibbs, Robert - BA, MA, PhD
Goering, Joseph - BA, MA, MSL, PhD
Goetschel, Willi - PhD
Gooch, Paul William - BA, MA, PhD
Green, Kenneth - BA, MA, PhD
Hackworth, Jason - BA, MA, MCP, PhD
Harrak, Amir - MA, LTH, PhD
Harris, Jennifer - BA, MA, PhD (Director of Graduate Studies)
Hewitt, Marsha - BA, MA, PhD
Kanaganyakam, Chelvananyakam (Chelva) - PhD
Kasturi, Malavika - DPhil
Kingwell, Mark - AB, BA, AM, MPH, PhD
Kivimae, Juri - AM, PhD
Klassen, Pamela - BA, MA, PhD
Kloppenborg, John - BA, MA, PhD (Chair and Graduate Chair)

Associate Members
Bendlin, Andreas - PhD
Daswani, Girish - BA, BSc, MS, PhD
Dixon, David - BSc, MA, MD
Fehige, Yiftach - MA, PhD, DTH
Marshall, Ruth - BA, MA, DPhil
O’Neill, Kevin - PhD
Raffaelli, Enrico - PhD
Rao, Ajay - PhD
Ruffle, Karen - PhD
Shantz, Colleen - BA, MDiv, PhD
Vaggione, Richard - BA, STB, STM, DPhil

Members Emeriti
Brownlee, John - BA, MA, MPH
Callahan, William - AB, BA, PhD
Davies, Alan - PhD
McIntire, C. Thomas - PhD
O’Connell, Joseph - PhD
O’Toole, Roger - DipEd, BA, MA, PhD
Richardson, G Peter - BAR, BD, PhD
Sinkewicz, Robert - BA, PhD
Stock, Brian - AB, PhD
Vertin, Joseph Michael - BA, PhD

Associate Members
Bendlin, Andreas - PhD
Daswani, Girish - BA, BSc, MS, PhD
Dixon, David - BSc, MA, MD
Fehige, Yiftach - MA, PhD, DTH
Marshall, Ruth - BA, MA, DPhil
O’Neill, Kevin - PhD
Raffaelli, Enrico - PhD
Rao, Ajay - PhD
Ruffle, Karen - PhD
Shantz, Colleen - BA, MDiv, PhD
Vaggione, Richard - BA, STB, STM, DPhil

Mittermaier, Amira - MA, PhD
Most, Andrea - BA, MA, PhD
Mullin, Amy - BA, PhD
Najman, Hindy - AB, MA, PhD
Newman, Judith - PhD
Northrup, Linda - BA, MA, PhD
Novak, David - AB, PhD
Raman, Srilata - BA, MPH, PhD
Ross, Jill - MA, PhD
Saleh, Walid - BA, MA, PhD
Sandahl, Stella - MA, MA, PhD
Scharper, Stephen - BA, MA, PhD
Schmidt, Lawrence - BA, MA, PhD
Shen, Vincent Tsing-song - PhD
Stefanovic, Ingrid - BA, MA, PhD
Stoeber, Michael - BA, MA, PhD
Subtelny, Maria - BA, PhD
Taylor, Glen - BA, MPH, MTH, PhD
Terpstra, Nicholas - BA, MA, PhD
Toulouse, Mark - MDiv, PhD
Vaage, Leif - BA, PhD
Virani, Shafique - PhD
Wiebe, Donald - BTH, BA, MA, PhD

Members Emeriti
Brownlee, John - BA, MA, MPH
Callahan, William - AB, BA, PhD
Davies, Alan - PhD
McIntire, C. Thomas - PhD
O’Connell, Joseph - PhD
O’Toole, Roger - DipEd, BA, MA, PhD
Richardson, G Peter - BAR, BD, PhD
Sinkewicz, Robert - BA, PhD
Stock, Brian - AB, PhD
Vertin, Joseph Michael - BA, PhD
Faculty Affiliation
Arts and Science

Degree Programs Offered
Slavic Languages and Literatures – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Diaspora and Transnational Studies
   • Slavic Languages and Literatures, MA, PhD
2. Jewish Studies
   • Slavic Languages and Literatures, MA, PhD

Overview
The Graduate Department of Slavic Languages and Literatures offers instruction leading to two degrees—Master of Arts and Doctor of Philosophy—in one of the broadest ranges of Slavic languages and literatures available in a North American university. Courses are offered in the following areas: Croatian and Serbian Languages and Literatures, Czech and Slovak Languages and Literatures, Polish Language and Literature, Russian Language and Literature, Slavic Linguistics, and Ukrainian Language and Literature.

Contact and Address
Web: www.utoronto.ca/slavic
Email: slavic@chass.utoronto.ca
Telephone: (416) 926-2075
Fax: (416) 926-2076
Department of Slavic Languages and Literatures
University of Toronto
Room 431, 121 St. Joseph Street
Alumni Hall
St. Michael’s College
Toronto, Ontario M5S 1J4
Canada

Degree Programs
Slavic Languages and Literatures

Master of Arts
Minimum Admission Requirements
• An appropriate bachelor’s degree (preferably in a cognate area) with an overall standing equivalent to at least a University of Toronto mid-B in the final year.
• A minimum A- average in all Slavic subjects taken in the final two years is recommended.

Program Requirements
• Proficiency in language of major must be demonstrated during first week of session. Undergraduate language courses may be required. These are not tabulated as part of graduate program course requirements.
• Students normally complete:
  • 4.0 full-course equivalents (FCEs) including SLA 1104H and SLA 1040H, or
  • 3.0 FCEs including SLA 1104H and SLA 1040H; plus a research paper written in English.
• All MA students are required to take SLA 1104H Introduction to Old Church Slavonic and SLA 1040H Methods of Teaching Slavic Languages, or present evidence to the Department that equivalent courses have been completed elsewhere.
• Students who intend to major or minor in Slavic linguistics must take SLA 1109H.
• Ordinarily, a student spends a full year in residence.

Normal Program Length: 2 sessions full-time
Time Limit: 3 years full-time

Doctor of Philosophy
Minimum Admission Requirements
• An appropriate University of Toronto master’s degree, or its equivalent, with a minimum A- average in graduate courses and demonstrated research competence.

Program Requirements
• Students are normally required to:
  • Complete a major and a minor program.
  • Complete 9.0 full-course equivalents (FCEs) with at least 0.5 FCE in Slavic linguistics. Advanced standing to a maximum of 3.0 FCEs may be available for work completed in the MA.
• Minor programs should include 2.0 FCEs from any one of Croatian and Serbian Languages and Literatures, Czech and Slovak Languages and Literatures, Polish Language and Literature, Russian Language and Literature, Slavic Linguistics, and Ukrainian Language and Literature or, with departmental approval, from a cognate discipline (e.g., Cinema Studies, Comparative Literature, Drama, History, Philosophy).
• Maintain a minimum annual average of A- to continue in the PhD program. Poor performance in
one session (below a B average) may result in the termination of a student’s PhD eligibility.

- Demonstrate a reading knowledge of French or German.
- After successful completion of coursework and the French or German language requirement, students must pass written comprehensive examinations in the major field and written and oral comprehensive examinations in the special field. The major field exam cannot be taken if students have any outstanding coursework.
- By the time of their major field exam, students should have chosen their supervisor and the rest of their committee (in consultation with the supervisor).
- Dissertation.
- In years one and two, students must take courses and be on campus full-time to participate fully in the PhD program’s activities.

Field Slavic Literatures

Students in the field of Slavic Literatures must:

- Acquire a working knowledge of a Slavic language other than their major language of study or complete at least two approved undergraduate courses in a Slavic language that is different than their major language of study by the end of their third year. A working knowledge is defined as proficiency equivalent to a second year course. Students must also satisfy departmental requirements for their major language. Students who do not major in Russian most often choose it as their second Slavic language.

Field Slavic Linguistics

Within the PhD program requirements listed above, students studying Slavic linguistics should include:

- at least 3.0 FCEs in Slavic linguistics, as well as 2.0 FCEs in theoretical linguistics from cognate disciplines, e.g., linguistics, anthropology. Linguistics students are also strongly advised to complete 1.0 FCE in the literature of their major language.
- complete at least one course in Slavic languages from each of the three groups: West Slavic, East Slavic, and South Slavic by the end of their third year.

Normal Program Length: 4 years (many students require 5 years to complete the program)

Time Limit: 6 years full-time

Course List

Not all courses are offered every year. Students should consult the departmental handbook for current course offerings.

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**Croatian and Serbian Literatures**

SLA 1507H Modern Croatian Bards in Performance
SLA 1517H Modern Serbian Bards: the Orphic Tradition
SLA 1537H Political Drama from Dubrovnik to Danube
SLA 1547H South Slavic Folklore

**Czech and Slovak Literature**

SLA 1600Y Introduction to Czech and Slovak Literatures
SLA 1602Y Czech Style and Syntax
SLA 1603H Lifting the Iron Curtain: Czech Culture of the Sixties in Context
SLA 1604Y History of Czech Verbal Art from the Early Stages to Baroque
SLA 1605Y Of Robots, Clowns and Poets: Modern Czech Drama and Theatre
SLA 1606H Public Places and Private Spaces in Czech Short Story
SLA 1608H On the Wave of the Avant-garde
COL 5039H Of Laughter and Forgetting in Milan Kundera

**Hungarian Literature**

HUN 1440Y The Modern Hungarian Novel
HUN 1450H Hungarian Drama
HUN 1451H Three Hungarian Film Directors

**Polish Literature**

SLA 1304H Staging God, Man and History: Polish Drama
SLA 1305H Polish Fiction or a Disrupted Funeral of the Novel
SLA 1306H Polish Poetry: Shaping the National Canon
SLA 1308Y Topics in Polish Literature
SLA 1312Y Modernism and Post-Modernism in Polish Literature

**Russian Literature**

SLA 1202H Gulag Literature
SLA 1203H The Self and Other in Russian Prose
SLA 1204H Contemporary Russian Literature
SLA 1205H Russian Literary Scandals
SLA 1207H The Imaginary Jew
SLA 1210H Studies in Medieval Russian Literature
SLA 1211Y Studies in the Russian Drama: Eighteenth to Twentieth Century
SLA 1215H Studies in Russian Literature and Criticism in the Eighteenth Century
SLA 1216H From English to Russian Literature and Back
SLA 1220H Nineteenth Century Russian Thinkers
SLA 1225H Russian Literature and Criticism in the 1860s
SLA 1226H Dostoevsky in Literary Theory and Criticism
SLA 1228H Themes in Russian Realism
SLA 1231H Twentieth Century Russian Prose
Degree and Diploma Programs by Graduate Unit

Slavic Languages and Literatures

SLA 1232H Russian Symbolism
SLA 1233H Studies in Modern Russian Poets
SLA 1234H Pasternak
SLA 1235H Chekhov
SLA 1236H Vladimir Nabokov
SLA 1240H Tolstoy
SLA 1241H Narrative and History
SLA 1411H Experiments in Art in the Late Russian Empire—Early Soviet Union
SLA 1900H Russian Nineteenth-Century Poetry (mandatory for MA students)

Slavic Linguistics

SLA 1040H Methods of Teaching Slavic Languages
SLA 1101H Historical Phonology, Morphology, and Syntax of the Russian Language
SLA 1102Y Advanced Russian Language Skills
SLA 1103H Comparative South Slavic Linguistics
SLA 1104H Introduction to Old Church Slavonic
SLA 1105H Russian Phonetics, Phonology, and Derivational Morphology
SLA 1109H Studies in Old Church Slavonic
SLA 1110H Comparative Historical Slavic Linguistics
SLA 1112H Tense, Aspect and Mood in Slavic
SLA 1113H Language Standardization and the Politics of Identity in Southeastern Europe
SLA 1114H Russian Inflectional Morphology, Stress, Lexicon, Aspect
SLA 1115H Historical Dialectology, Accentuation, and Verbal Semantics of the Russian Language
SLA 1141H History of the Ukrainian Language
SLA 1142H Style and Structure of Ukrainian
SLA 1150H Russian Since the Revolution

Russian Language

SLA 1101 Y History of the Russian Language
SLA 1102Y Advanced Russian Language Skills

Ukrainian Literature/Language

SLA 1141H History of Ukrainian Language
SLA 1142H Style and Structure of Ukrainian
SLA 1402Y Studies in Ukrainian Modernism
SLA 1403Y Contemporary Ukrainian Literature
SLA 1404Y Studies in Ukrainian Poets
SLA 1405Y Experiments in Ukrainian Prose
SLA 1406Y Studies in Ukrainian Literary Criticism
SLA 1407H Aspects of Literary Translation of Ukrainian
SLA 1408H Taras Shevchenko
SLA 1412Y Literature of the Ukrainian Diaspora

General Slavic

SLA 1037H Theatre and Cinema in Extremis: Staging Twentieth Century Aesthetics and Politics
SLA 1038H Performance in Theory and Practice
SLA 1039H Kyiv-Kiev-Kijow: A City through Cultures and Centuries
SLA 1040H Methods of Teaching Slavic Languages
SLA 1207H The Imaginary Jew
SLA 1310H Theatre in the Twentieth Century
SLA 1421H Women in East European Fiction
SLA 1521H Post-Modernity and the Mythopoetic Legacy of Mitteleuropa
SLA 2000Y Reading and Research
SLA 2001H One Term Reading and Research
SLA 2002Y Reading and Research (for PhD students only)
SLA 2020Y Research Paper
COL 5012Y Readings in Czech/Russian Literary Theory
COL 5037H Magic Prague: Question of Literary Cityscapes

Graduate Faculty

Full Members
Ambros, Veronika - MA, PhD
Barnes, Christopher - BA, MA, PhD
Holland, Kate - MA, PhD
Koziansky, Taras - MA, PhD
Kramer, Christina - BA, MA, PhD
Livak, Leonid - BA, AM, PhD (Coordinator of Graduate Studies)
Obradovic, Dragana - MA, PhD
Orwin, Donna - PhD (Chair and Graduate Chair, Jan.-June 2012)
Paivio, Pia-Maria - MA, PhD
Schallert, Joseph - PhD
Tarnawsky, Maxim - BA, PhD (Acting Chair and Graduate Chair, July–Dec. 2011)
Trojanowska, Tamara - MA, PhD

Members Emeriti
Bedford, Charles - MA, PhD
Bisztray, George - PhD
Dolezel, Lubomir - BA, PhD, Fell Royal Society Canada
Iribarne, Louis - BA, MA, PhD
Lantz, Kenneth - BA, MA, PhD
Lindheim, Ralph - BA, MA
Pavliuc, Nicolae - PhD
Ponomareff, Constantin - BA, MA, PhD
Thomson, Roger - BA, MA, DPhil
Social Work

Faculty Affiliation
Social Work

Degree Programs Offered
Social Work – MSW, JD/MSW, MHSc/MSW, PhD

Diploma Programs Offered
Social Work – Advanced Diploma in Social Service Administration

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Addiction Studies
   • Social Work, MSW, PhD
2. Aging, Palliative and Supportive Care Across the Life Course
   • Social Work, MSW, JD/MSW, MHSc/MSW, PhD
3. Asia Pacific Studies
   • Social Work, MSW
4. Bioethics
   • Social Work, PhD
5. Community Development
   • Social Work, MSW
6. Ethnic and Pluralism Studies
   • Social Work, MSW, PhD
7. Health Care, Technology and Place
   • Social Work, PhD
8. Health Services and Policy Research
   • Social Work, MSW, PhD
9. Sexual Diversity Studies
   • Social Work, MSW, PhD
10. Women and Gender Studies
    • Social Work, MSW, JD/MSW, MHSc/MSW, PhD
11. Women’s Health
    • Social Work, MSW, PhD

Overview
As the oldest school of social work in Canada, the Factor-Inwentash Faculty of Social Work at the University of Toronto has been on the cutting edge of education, policy, research, and practice in social work for more than 95 years. The Faculty offers a professional/academic program of study leading to a Master of Social Work (MSW), a post-master’s Advanced Diploma in Social Service Administration and a Doctor of Philosophy (PhD) degree.

The MSW program is distinguished by the integration of research and practice in both the classroom and its practicum education. The program offers five fields of specialization:
- Children and Their Families (MSW)
- Gerontology (MSW)
- Health and Mental Health (MSW)
- Social Justice and Diversity (MSW)
- Social Service Administration (MSW)

It is fully accredited by the Canadian Association of Social Work Education.

The Advanced Diploma in Social Service Administration program provides a rigorous, comprehensive grounding in the key values, skills, and knowledge required by administrators and leaders of social service organizations.

The PhD program has a tradition of scholarly excellence based on the quality of the research knowledge, competence, and output of its faculty. Doctoral graduates are practice leaders and faculty members throughout the world. The program offers two fields:
- Social Work Policy Analysis (PhD)
- Social Work Practice, Theory and Research (PhD)

Enrolment in the Faculty of Social Work entails adherence to the standards of professional behaviour for the social work profession set forth in the Social Work Code of Ethics of the Canadian Association of Social Workers.

Contact and Address
Web: www.socialwork.utoronto.ca
Email: admissions.fsw@utoronto.ca
Telephone: (416) 978-6314
Fax: (416) 978-7072
Factor-Inwentash Faculty of Social Work
University of Toronto
246 Bloor Street West
Toronto, Ontario M5S 1V4
Canada

Degree Programs
Social Work

Master of Social Work
The Factor-Inwentash Faculty of Social Work offers two streams in the Master of Social Work Program:
1. Students with an appropriate bachelor’s degree from a recognized university will normally complete the program in two years of full-time study.
2. Students entering with a BSW degree from a recognized university will be given advanced standing
and will normally complete the program in one year of full-time study or two years of part-time study.

All students are expected to graduate with an advanced level of knowledge and professional competence in a chosen area of social work practice.

Minimum Admission Requirements

- Applicants with an appropriate bachelor’s degree with a minimum average equivalent to at least a University of Toronto mid-B in the final year of full-time study from a recognized university are admitted to a two-year MSW program. Applicants who hold a BSW degree with mid-B average in the final year of full-time study, or its equivalent from a recognized university, may be eligible for the MSW Program with Advanced Standing.
- Students applying to the Social Service Administration field must have at least three years experience in social services.
- All applicants must have included 3.0 full-course equivalents (FCEs) in Social Science courses, including 0.5 FCE in research methodology. A mid-B is strongly recommended in the research methodology course.
- Experience (voluntary or paid) in the social services or related field, and knowledge of critical social issues are recommended. Suitability for professional practice in social work will also be considered.
- Proof of English language facility (see SGS General Regulations).
- Advanced-standing applicants must declare their field of specialization and a preference for full-time or part-time studies at the time of application. Initial admission enquiries should be made directly to the Faculty of Social Work. Please note that applicants holding the minimum admission requirements are not guaranteed admission. All admission decisions are final.

Program Requirements

MSW Two-Year Full-Time Program and MSW Program with Advanced Standing

- All MSW students: Agencies that offer practica will likely require a Vulnerable Sector Verification prior to commencing the practicum. Failure to pass this check will jeopardize a student’s entry to practicum.
  Cost and time factors are associated with the Vulnerable Sector Verification. A delay in obtaining the results can impact the start time of a student’s practicum.
  In anticipation of this requirement for the practicum, it is strongly recommended that students begin this process early. (For more information, visit www.rcmp-grc.gc.ca/cr-cj/vulner/index-eng.htm.)

- Year one of the two-year full-time MSW program— all students

Compulsory Courses

First-year MSW students must complete eight half courses (4.0 FCEs) and the first-year practicum (0.5 FCE) from the list of required courses below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK 4102H</td>
<td>Social Policy and Social Welfare in the Canadian Context</td>
</tr>
<tr>
<td>SWK 4103H</td>
<td>Elements of Social Work Practice</td>
</tr>
<tr>
<td>SWK 4105H</td>
<td>Social Work Practice Laboratory</td>
</tr>
<tr>
<td>SWK 4107H</td>
<td>Foundations of Social Work: Knowledge, Theory and Values that Inform Practice</td>
</tr>
<tr>
<td>SWK 4510H</td>
<td>Research for Evidence-Based Social Work Practice (SWK 4510H is a prerequisite for second-year required courses.)</td>
</tr>
<tr>
<td>SWK 4602H</td>
<td>Social Work Practice with Groups</td>
</tr>
<tr>
<td>SWK 4605H</td>
<td>Social Work Practice with Individuals and Families</td>
</tr>
<tr>
<td>SWK 4654H</td>
<td>Social Work Practice in Organizations and Communities</td>
</tr>
<tr>
<td>SWK 4701H+</td>
<td>Social Work Practicum I (prerequisite: SWK 4105H completed prior to beginning practicum)</td>
</tr>
</tbody>
</table>

- MSW two-year program students must declare their field of specialization by mid-February of the first year. See below for information by field of specialization.

Note: Advanced-standing students normally complete the program in one year of full-time study or two years of part-time study.

- The MSW thesis option provides hands-on research experience. The thesis is an independent piece of research intended to enable students to develop and apply research skills within the context of social work practice and to write a graduate thesis of publishable quality.
  Note: The thesis option is available to a limited number of students—maximum three in any given year—whose proposed research must be approved by a review panel and by the Associate Dean, Research.

- Students in the thesis option who have a minimum of two years prior full-time social work experience are eligible to apply to take an additional 1.0 elective FCE in place of the second year practicum. Workplace supervision must have occurred with a MSW supervisor; requests for substitution must be reviewed and approved by the Faculty-Assessment Committee.

- Students who choose the thesis option may require at least one additional academic session to complete the program.

Field Children and Their Families

The program is designed to prepare students for social work practice with children and their families at all levels of intervention, from individual to group work with children, to family and couple intervention,
to community organization, and to program and policy development.

**MSW Two-Year Program**

- Students must complete a total of 8.5 FCEs including core MSW coursework (4.0 FCEs), required field-specialization coursework (2.0 FCEs), elective coursework (1.0 FCE), and practica (1.5 FCEs). The practicum (0.5 FCE) is required for students in the first year and is offered in the winter session; the second-year practicum (September–April) is equivalent to 1.0 FCE and must be in the student’s field of specialization.
- Thesis: Students complete a total of 8.5 FCEs, including core MSW coursework (4.0 FCEs), required field-specialization coursework (2.0 FCEs), practica (1.5 FCEs), and a thesis (1.0 FCE).

**MSW Program with Advanced Standing**

- Students will normally complete a total of 4.5 FCEs including required coursework (2.5 FCEs), elective coursework (1.0 FCE), and a practicum (1.0 FCE) in their field of specialization.
- Thesis: Students complete a total of 4.5 FCEs including required coursework (2.5 FCEs), a practicum (1.0 FCE), and a thesis (1.0 FCE).

**COMPULSORY COURSES—YEAR TWO**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK 4514H</td>
<td>Research for Practice with Children and their Families</td>
</tr>
<tr>
<td>SWK 4608H</td>
<td>Social Work Practice with Families</td>
</tr>
<tr>
<td>SWK 4620H</td>
<td>Social Work Practice with Children and Adolescents</td>
</tr>
<tr>
<td>SWK 4625H</td>
<td>The Intersection of Policy and Practice with Children and their Families</td>
</tr>
<tr>
<td>SWK 4702Y</td>
<td>Social Work Practicum II (full-credit)</td>
</tr>
</tbody>
</table>

**MSW Program with Advanced Standing** complete above courses plus compulsory course:

- SWK 4510H Research for Evidence-Based Social Work Practice (SWK 4510H is a prerequisite for required second-year courses)

**Field Health and Mental Health**

As members of inter-professional health teams, social workers seek to assist others in understanding the social and community context in which physical and mental illness occur and the way in which these larger systems contribute to the development of illness and exacerbate or ameliorate the challenges in adapting to illness.

**MSW Two-Year Program**

- Students must complete a total of 8.5 FCEs including core MSW coursework (4.0 FCEs), required field-specialization coursework (2.0 FCEs), elective coursework (1.0 FCE), and practica (1.5 FCEs). The practicum (0.5 FCE) is required for students in the first year and is offered in the winter session; the second year practicum (September–April) is equivalent to 1.0 FCE and must be in the student’s field of specialization.
- Thesis: Students in the MSW two-year program complete a total of 8.5 FCEs, including core MSW coursework (4.0 FCEs), required field-specific coursework (2.0 FCEs), practica (1.5 FCEs), and a thesis (1.0 FCE).
MSW Program with Advanced Standing

- Students in the MSW Program with Advanced Standing will normally complete a total of 4.5 FCEs including required coursework (2.5 FCEs), elective coursework (1.0 FCE), and a practicum (1.0 FCE) in their field of specialization.
- Thesis: Students in the MSW Program with Advanced Standing complete a total of 4.5 FCEs including required coursework (2.5 FCEs), a practicum (1.0 FCE), and a thesis (1.0 FCE).

COMPULSORY COURSES — YEAR TWO

SWK 4412H The Context of Mental Health and Health Practice
SWK 4511H Practice-Based Research in Mental Health and Health
SWK 4702Y Social Work Practicum II (full-credit)

Plus students can then elect to take one of three choices:

- SWK 4622H Social Work Practice in Health and SWK 4604H Social Work Practice in Mental Health
- SWK 4622H Social Work Practice in Health followed by SWK 4632H Advanced Social Work Practice in Health (Prerequisite: SWK 4622H)
- SWK 4604H Social Work Practice in Mental Health followed by SWK 4631H Advanced Social Work Practice in Mental Health (Prerequisite: SWK 4604H)

MSW Program with Advanced Standing students must complete above courses plus compulsory course:

SWK 4510H Research for Evidence-Based Social Work Practice (SWK 4510H is a prerequisite for required second-year courses)

Field Social Service Administration

The not-for-profit sector is primarily responsible for the delivery of social services in Canada. There is a critical need for people who are able to assume leadership roles in the community social services sector.

MSW Two-Year Program

- Students in the MSW two-year program must complete a total of 8.5 FCEs including core MSW coursework (4.0 FCEs), required field-specialization coursework (2.0 FCEs), elective coursework (1.0 FCE), and practica (1.5 FCEs). The practicum (0.5 FCE) is required for students in the first year of the MSW two-year program and is offered in the winter session; the second year practicum (September–April) is equivalent to 1.0 FCE and must be in the student’s field of specialization.
- Students in the Social Service Administration specialization do not have the option of doing a thesis.

MSW Program with Advanced Standing

- Students in the MSW Program with Advanced Standing will normally complete a total of 4.5 FCEs including required coursework (2.5 FCEs), elective coursework (1.0 FCE), and a practicum (1.0 FCE) in their field of specialization.
- Thesis: Students in the MSW Program with Advanced Standing complete a total of 5.0 FCEs, including required coursework (3.0 FCEs), elective coursework (1.0 FCE), and a practicum (1.0 FCE).
- Thesis: Students in the MSW Program with Advanced Standing complete a total of 5.0 FCEs,
Degree and Diploma Programs by Graduate Unit

including required coursework (3.0 FCEs), elective coursework (1.0 FCE, 0.5 of which must be from the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course listing), and a thesis (1.0 FCE).

COMPULSORY COURSES—YEAR TWO
AGE 2000H Principles of Aging
SWK 4513H Knowledge Building in Social Work
SWK 4612Y Social Work and Aging: Integrated Policy and Practice (full-credit)
SWK 4618H Special Issues in Gerontological Social Work
SWK 4702Y Social Work Practicum II (full-credit)

MSW Program with Advanced Standing students must complete above courses plus compulsory course:
SWK 4510H Research for Evidence-Based Social Work Practice (SWK 4510H is a prerequisite for required second-year courses)

Normal Program Length: 6 sessions (2 years) full-time; 3 sessions advanced-standing full-time; 6 sessions advanced-standing part-time
Time Limit: 3 years full-time; 6 years part-time

Course List

Elective Courses
Courses are offered in various areas of social work practice. The choice of electives in any given year is contingent on available faculty resources. Not every course is given in any one year. Please consult the Faculty website www.socialwork.utoronto.ca.

AGE 2000H Principles of Aging
JPX 1001H Parenting: Multidisciplinary Perspectives
JFS 1460H Community-Based Natural Resource Management
JPW 2118H Philosophical Foundations of Women's Studies
JTH 3000H Coordinating Seminar in Ethnic and Pluralism Studies
PAS 3700H Multidisciplinary Aspects of Addiction Studies
SWK 4210H Promoting Empowerment: Working at the Margins
SWK 4403H Women and Social Policy in Canada
SWK 4417H Adolescence: Social Work Challenges and the Role of Social Work
SWK 4418H Introduction to Jewish Perspectives on Caring
SWK 4420H Human Rights and Social Justice
SWK 4422H Social Housing and Homelessness
SWK 4506H Advanced Research in Social Work
SWK 4516H Advanced Social Work Practice with Groups (Prerequisite: SWK 4602H or equivalent)

SWK 4609H Sexuality, Sexual Diversity and Social Work Practice
SWK 4610H Advanced Social Work Practice with Couples
SWK 4613H Social Work Practice in Mental Health: Older Populations
SWK 4616H Drug Dependencies: Intervention Approaches
SWK 4617H Cross-Cultural Social Work Practice
SWK 4619H Family Mediation: Theory and Practice
SWK 4621H Integrative Child and Adolescent Therapy: Theory and Practice
SWK 4623H Violence in Families: Multilevel Intervention in Interdisciplinary Practice
SWK 4624H Feminist Social Work Practice
SWK 4630H Intersecting Narratives: Self, Culture, Institutions
SWK 4633H Advanced Clinical Practice with Families of Children and Adolescents
SWK 4634H Family Practice Across the Life Cycle
SWK 4635H Evidence-Based Practices in Social Work
SWK 4636H Special Topics in Mental Health Social Work
SWK 4637H Special Topics in Health Social Work
SWK 4638H Social Work Practice in Children's Mental Health
SWK 4639H Special Topics in Child and Family Social Work
SWK 4640H Special Topics in Mental Health Social Work II
SWK 4658H Social Work with Immigrants and Refugees
SWK 4662H Social Policy Analysis
SWK 4664H Administrative/Managerial Practice in Social Work
SWK 4667H Information Technology in Professional Social Work Practice
SWK 4668H Welfare of Children: Policy and Practice

Special Studies
Special Studies courses are designed to provide seminars or tutorials under the direction of a faculty member. The focus is on a topic of particular interest to the student which is not included in available courses.

SWK 4801H Special Studies I
SWK 4802H Special Studies II
SWK 4803H Special Studies III
SWK 4804H Special Studies IV

Combined JD/MSW in Law and Social Work

Minimum Admission Requirements

• Applicants must satisfy the admission requirements of both the Juris Doctor and Master of Social Work programs independently.
Program Requirements

- Program requirements will normally be satisfied within four years. Advanced standing for students with a BSW from a recognized university is possible.

**Time Limit:** 4 years full-time

Combined MHSc/MSW in Health Administration and Social Work

Minimum Admission Requirements

- Students must satisfy the admission requirements for both the Master of Health Science and Master of Social Work programs independently.

Program Requirements

- Program requirements will normally be satisfied within three years. Advanced standing for students with a BSW from a recognized university is possible.

**Time Limit:** 6 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Master of Social Work degree or an equivalent master's degree with at least B+ standing from an accredited program in a recognized university;

- Competency in basic statistical methods at an introductory level;

- Educational and professional experience that indicates a capacity to undertake research-oriented postgraduate work.

- Evidence of facility in the English language (see SGS General Regulations).

- Initial admission enquiries should be made directly to the Faculty of Social Work. The application deadline for the PhD program is February 1. The Faculty of Social Work does not guarantee admission to all applicants who meet its minimum requirements.

Program Requirements

- Complete coursework totalling 5.0 FCEs, generally within two years of registration, as follows:
  - 2.0 FCEs in required research courses:
    - SWK 6301H, SWK 6302H, SWK 6307H, SWK 6308H. Students may be exempt from these research courses but will substitute alternate elective courses for each exempted course. Note: SWK 4506H (0.5 FCE) is a prerequisite for SWK 6301H or an equivalent competency exam must be passed by all incoming students with a grade of at least B+.
  - 2.5 FCEs in graduate level electives, including at least 0.5 FCE from Social Work and at least 0.5 FCE from another graduate unit (with the approval of the PhD Director).
  - SWK 7000H Doctoral Thesis Seminar (0.5 FCE) is required during the fall session of the second year of the program.

- Following completion of coursework, students are required to satisfactorily complete a comprehensive paper followed by a thesis proposal and thesis which constitutes a distinct contribution to knowledge in the field of social work, and finally, an oral thesis defence.

- Students are expected to complete their coursework, Comprehensive Paper, and have their thesis proposal approved by the end of August of the third year of the program. The research, writing, and doctoral final oral examination of the thesis are typically completed by the end of the fifth year of the program.

- Students must have an adequate knowledge of a language other than English if an additional language is deemed essential for satisfactory completion of research for the thesis. The Faculty is responsible for ensuring that an acceptable certificate of language competence is deposited with the School of Graduate Studies.

- Minimum Period of Registration is 12 academic sessions of full-time enrolment (fall, winter, summer sessions)

Flexible-Time Option

- The flexible-time PhD differs only in design and delivery. All requirements are the same as those for the full-time PhD students.

- The flexible-time option is offered to practising professionals who can demonstrate their employment or other professional work is related to their intended field of study and research interests. Students who are considering the flexible-time PhD should ensure that they will have adequate time on campus to attend classes and to fulfill the academic requirements of a PhD program.

**Normal Program Length:** 4 years full-time; 6 years flexible-time

**Time Limit:** 6 years full-time; 8 years flexible-time

Course List

**Compulsory Courses**

- SWK 6301H Intermediate Statistics and Data Analysis (Prerequisite: SWK 4506H or pass a competency exam)
- SWK 6302H Epistemology and Social Work Research
- SWK 6307H Designing and Implementing Qualitative Social Work Research
- SWK 6308H Designing and Implementing Quantitative Social Work Research
- SWK 7000H Doctoral Thesis Seminar (Credit/No Credit)
Degree and Diploma Programs by Graduate Unit

**Recommended Course**

SWK 4506H  Applied Quantitative Data Analysis
(Prerequisite: SWK6301H or pass a competency exam)

**Elective Courses**

The choice of electives in any given year is contingent on available faculty resources. Not every course is available in any one year. Please consult the Faculty website www.socialwork.utoronto.ca.

SWK 6005H  Theoretical Foundations of Social Work
SWK 6006H  Theory and Practice of Teaching Social Work
SWK 6007H  Advanced Qualitative Research Methods in Social Work
SWK 6101H  Critical Evaluation of Social Work Practice Theories
SWK 6106H  Family Mediation: Research and Practice
SWK 6203H  Comparative Social Welfare Systems
SWK 6205H  Social Planning in Social Welfare
SWK 6208H  Advanced Principles of Social Policy Analysis
SWK 6401H  Sociocultural Issues in Social Work
SWK 6406H  Housing Theory and Research Methods

These courses are designed to provide seminars or tutorials according to the particular interests of students enrolled:

SWK 6501H  Special Studies 1
SWK 6502H  Special Studies 2
SWK 6503H  Special Studies 3
SWK 6504H  Special Studies 4

**Diploma Programs**

**Advanced Diploma in Social Service Administration**

The goal of this program is to provide a rigorous, comprehensive grounding in the key values, skills and knowledge required by administrators, managers and leaders of social service organizations. The diploma program is designed for students who are active in the work force.

**Admission Requirements**

- Applicants follow admission requirements stipulated by the School of Graduate Studies at the University and by the Factor-Inwentash Faculty of Social Work. Applicants must have a MSW or master's degree in a related social service field and have at least three years of experience in social services.

**Program Requirements**

- 3.0 full-course equivalents (FCEs) offered in modular format one full day per month.

**Normal Program Length:** 3 sessions (1 year) full-time; 6 sessions (2 years) part-time

**Time Limit:** 5 years full-time; 5 years part-time

**Course List**

**Compulsory Courses**

SWK 4425H  Leadership Skills in Social Service Organizations
SWK 4426H  Financial Management of Social Service Organizations
SWK 4427H  Human Resource Management in Social Service Organizations
SWK 4515H  Research and Quality Improvement in Human Service Organizations

**Elective Courses**

1.0 elective FCE given in conjunction with the MSW curriculum or 0.5 elective FCE and a major paper addressing a funding, management, or structural challenge in a social service agency.

**Graduate Faculty**

**Full Members**

Alaggia, Ramona - BA, MSW, PhD
Bogo, Marion - BA, MSW
Chambon, Adrienne - BA, PhD (Director, PhD Program)
Fuller-Thomson, Esme - BA, MSW, PhD
Globerman, Judith - BSW, MHSc, MSc, PhD
Hulchanski, J David - BA, MSc, PhD
Lightman, Ernie - BA, MA, PhD
MacFadden, Robert - BA, MSW, PhD
McDonald, Lynn - PhD
Mishna, Faye - BA, PhD
Newman, Peter - BA, MA, MSW, PhD
Neysmith, Sheila - BSc, MSW, DSW
Regehr, Cheryl - AB, MA, PhD
Shlonsky, Aron - BA, MPH, MSW, DPhil
Stern, Susan - DSW
Trocme, Nicolas - PhD
Tsang, Ka Tat - BSc, PhD
Williams, Charmaine - BA, BSc, MSW, PhD (Associate Dean, Academic)

**Members Emeriti**

Bellamy, Donald - BA, BSW, MSW, DSW
Breton, Margot - BA, MSW
George, Usha - BSc, BEd, MA, MA, PhD
Irving, Howard - BS, MSW, DSW
Lang, Norma - BA, BSW, PhD
Marziali, Elsa - BA, MSW, DSW
Meeks, Donald - BA, MSW, DSW, Associate In Commerce
Schlesinger, Benjamin - BA, MSW, PhD
Shapiro, Ben - BA, BSW, MSW, DSW
Wells, Lilian - BA, BSW, BA, MSW
Associate Members

Anucha, Uzo - BSW, MSW, PhD
Bhuyan, Rupaleem - BA, MA, PhD
Blakely, Christine (Cindy) - BA, MSW
Brennan, David - BA, MSW, PhD
Chakrapani, Venkatesan - MD, MBBS
Coady, Nicholas - BA, MSW, PhD
Craig, Shelley - BS, MSW, PhD
Cullen, James - BSW, AB, MSW, PhD
Donahue, Peter - BSc, BA, DSW
Evans, Patricia - BSW, MSW, PhD
Fallon, Barbara - BA, MSW, PhD
Fang, Lin - BA, MSW, PhD
Faucher, Sheila - BA, MSc, PhD
Fleischer, Les - BA, MSW, DSW
Flicker, Sarah - BA, MPH, PhD
Flynn, Robert - BA, BTH, MA, PhD
Frolic, B. Michael - BA
Gadalla, Tahany - BASc, MS, MMath, EdD
Gold, Nora - BSW, MSW, DSW
Goldring, Luin - BA, MS, PhD
Goodman, Deborah - BA, MSW, DSW
Herie, Marilyn - BA, MSW, PhD
Ickowicz, Abel - MD
Jeffries, Joel - MA, MB
Lai, Daniel W. L. - MSW, PhD
Langley, John - LMCC, MD
Lee, Eunjung - BSW, MSW, PhD
Legault, Maurice - MSc, PhD
Levine, Deborah - BA, MA, MSW, PhD
Litvack, Andrea - BSW, MSW
Lurie, Stephen - BA, MSW, MBA
MacMillan, Harriet - MSc, MD
Maiter, Sarah - BSW, MSc, DPhil
McNeill, Ted - BA, MSc, DPhil
Moffatt, Ken - BES, MSW, PhD
Moscovitch, Allan - BA, MA
Muskat, Barbara - BSW, MSW, PhD
Myers, Ted - BA, MSW, MSc, PhD
Noack, Andrea - BA, MA, PhD
Pedersen, Ducan - MD
Pepler, Debra - BA, BEd, MSc
Popova, Svetlana - MPH, MSD, DSW, MEDSCD
Power, Roxanne - BA, BSW, MSW
Ravitz, Paula - DPSYCH, BA, MD
Saini, Michael - BSW, BA, BA, MSW, PhD
Sakamoto, Izumi - DSW
Sinding, Christina - BA, MA, PhD
Skinner, Wayne - MSW
Stewart, Malcolm - DSW
Swift, Karen - AB, MSW, PhD

www.sgs.utoronto.ca/calendar/2011-12

Social Work 409
Sociology

Faculty Affiliation
Arts and Science

Degree Programs Offered
Sociology – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Addiction Studies
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   - Sociology, MA, PhD
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   - Sociology, MA
4. Diaspora and Transnational Studies
   - Sociology, MA, PhD
5. Environmental Studies
   - Sociology, MA, PhD
6. Ethnic and Pluralism Studies
   - Sociology, MA, PhD
7. Jewish Studies
   - Sociology, MA, PhD
8. Knowledge Media Design
   - Sociology, MA, PhD
9. Sexual Diversity Studies
   - Sociology, MA, PhD
10. Women and Gender Studies
    - Sociology, MA, PhD

Overview
The Master of Arts program helps students develop their theoretical perspectives and research skills. It provides solid basic training in honing research skills for the public and private sectors. It also provides a strong foundation in sociological training for those who plan to pursue a doctoral degree in sociology. Students can choose to take the program on a part-time or full-time basis.

The Doctor of Philosophy program prepares students for careers in teaching and research. The program trains students to conduct theoretically informed and methodologically sophisticated state-of-the-art sociological research. Graduates will be able to conduct independent research and to communicate their research in a variety of contexts. Therefore, the program is designed to provide both a broad knowledge of the discipline and training in basic research.

Students are expected to acquire autonomy in conducting research, preparing scholarly publications, and participating in professional conferences. These objectives are achieved through a combination of coursework, participation in seminars, preparation of comprehensive examinations, paid work as research and teaching assistants, preparing papers for conference presentation, and supervised dissertation research.

Contact and Address
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Email: sociology.graduate@utoronto.ca
Telephone: (416) 978-3414
Fax: (416) 978-3963
Department of Sociology
University of Toronto
725 Spadina Avenue
Toronto, Ontario M5S 2JH
Canada

Degree Programs
Sociology

Master of Arts

Minimum Admission Requirements
- An appropriate bachelor's degree with 5.0 full-course equivalents (FCEs) in sociology, with an overall B+ average in each of the last two years of post-secondary education. Those with excellent grades but whose preparation is insufficient will be required to take additional courses.
- Applicants are also expected to have acquired basic research and statistical skills.
- Admission decisions are based on grades and indications of superior qualifications such as letters of recommendation and a sample of the applicant's work.
- In addition to the School of Graduate Studies' online application, applicants must submit:
  - two letters of reference from instructors or research supervisors;
  - a paper, including summary, which the student feels represents his or her best work;
  - a one-page typed statement of interest indicating research interests and reasons for applying to study Sociology at the University of Toronto.
- Applicants who were educated outside Canada, whose primary language is not English, and who
graduated from a university where the language of instruction was not English must demonstrate facility in the English language through the successful completion of the Test of English as a Foreign Language (TOEFL) with scores of at least:
- paper-based TOEFL exam: 580 with 5 on the Test of Written English.
- Internet-based TOEFL exam: 93/120 with 22/30 on the writing and speaking sections.

Program Requirements
- Students have the option of completing the master’s degree in one of two ways:
  - eight half courses (4.0 FCEs) within nine months (the preferred option for those proceeding to the PhD), or
  - six half courses (3.0 FCEs) and a research paper within 12 months.
- All master’s students must take: SOC 6001H Classical Sociological Theory, SOC 6302H Statistics for Sociologists, SOC 6712H Qualitative Methods I.
- The choice of courses in all programs must be approved by the department. Students must maintain a B average to be recommended for the MA degree.
- The MA degree may be pursued on a full-time or part-time basis.

Normal Program Length: 3 sessions full-time; 15 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements
- The normal requirement is completion of the University of Toronto MA or its equivalent, with at least an A- standing. All students must demonstrate that their master’s degree program included coursework equivalent to Classical Social Theory, Social Statistics, and Qualitative Methods I. Some students may be required to take prescribed additional courses.
- The department may recommend admission directly after completion of an appropriate bachelor’s degree. Direct entry of this kind will only be recommended for outstanding students who have provided a clear and detailed plan for thesis research.
- Admission decisions are based on grades and indications of superior qualifications such as letters of recommendation and a sample of the applicant’s work.
- In addition to the School of Graduate’s online application form, applicants must submit:
  - two letters of reference from instructors or research supervisors;
  - a paper, including summary, which the student feels represents his or her best work;
  - a one-page typed statement of interest indicating research interests and reasons for applying to study Sociology at the University of Toronto.
- Applicants who were educated outside Canada, whose primary language is not English, and who graduated from a university where the language of instruction was not English must demonstrate facility in the English language through the successful completion of the Test of English as a Foreign Language (TOEFL) with scores of at least:
  - paper-based TOEFL exam: 580 with 5 on the Test of Written English.
  - Internet-based TOEFL exam: 93/120 with 22/30 on the writing and speaking sections.

Program Requirements
- 4.0 full-course equivalents (FCEs). These must include: SOC 6101H Contemporary Sociological Theory, SOC 6707H Intermediate Data Analysis, SOC 6711Y Research Practicum. If a student has already taken these courses at the graduate level, other courses will be substituted to maintain the 4.0 FCEs total.
- An average of at least B+ is required in order to be eligible to continue in the following year of any program. Failure in any course (that is, less than a B-) will require a review of the student’s total program by the department.
- Two comprehensive examinations which must be completed by the end of the second year of residence.
- Preparation of an original thesis, under the supervision of a committee of the faculty staff, and its oral defense.
- Candidates must have an adequate knowledge of a language other than English if an additional language is deemed essential for satisfactory completion of research for the thesis.
- Students who enter the doctoral program directly from a bachelor’s degree will be required to take the three half courses (1.5 FCEs) that are required at the MA level in addition to the standard PhD requirements.
- Two years of residence.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry
Course List

For details on course offerings check with departmental graduate office.

Theory and Methods of Sociology—Core Courses

SOC 6001H Sociological Theory I
SOC 6101H Sociological Theory II
SOC 6201H Sociological Theory III
SOC 6301H Survey Methods
SOC 6302H Statistics for Sociologists
SOC 6303H Field Methods
SOC 6501H Research Design and Hypothesis Testing in Sociology
SOC 6502H The Sociology Curriculum
SOC 6707H Intermediate Data Analysis
SOC 6708H Advanced Data Analysis
SOC 6710H The Logic of Social Inquiry
SOC 6711Y+ Research Practicum
SOC 6712H Qualitative Methods I
SOC 6713H Qualitative Methods II
SOC 6714H Historical Methods Using Census Data
SOC 6715H Historical Sociology
SOC 6716H Survey Methods II—Longitudinal Surveys

Areas of Specialization

Immigration and Ethnicity
SOC 6002H Immigration I
SOC 6003H Immigration II
SOC 6009H Ethnicity I
SOC 6109H Ethnicity II

Health and Mental Health
SOC 6022H Sociology of Health
SOC 6023H Sociology of Mental Health I
SOC 6122H Sociology of Mental Health II
SOC 6123H Sociology of Addiction
SOC 6126H The Social Ecology of Health

Networks and Community
SOC 6008H Network Analysis I
SOC 6108H Network Analysis II
SOC 6214H Sociology of Urbanization
SOC 6314H Community
SOC 6414H Urban Organization

Crime and Socio-Legal Studies
CRI 3140H Special Topics in Criminology
SOC 6006H Deviance I
SOC 6106H Deviance II
SOC 6206H The Sociology of Deviance and Control
SOC 6506H Design and Analysis of Research on Deviance and Control

Gender and Family
SOC 6017H Sociology of Families I
SOC 6117H Sociology of Families II
SOC 6019H Gender Relations I
SOC 6119H Gender Relations II

Stratification, Work, and Labour Markets
SOC 6012H Sociology of Work I
SOC 6112H Sociology of Work II
SOC 6013H Social Inequality I
SOC 6113H Social Inequality II
SOC 6312H Social Aspects of Technology and Work

Political Sociology
SOC 6005H Social Change and Development I
SOC 6105H Social Change and Development II
SOC 6010H Political Sociology I
SOC 6110H Political Sociology II
SOC 6014H Environmental Sociology I
SOC 6114H Environmental Sociology II
SOC 6125H Theories of Social Change

Sociology of Culture
SOC 6516H Sociology of Culture
SOC 6517H Sociology of Culture II

Other Courses
SOC 6016H Social Demography I
SOC 6116H Social Demography II
SOC 6018H Sociology of Religion I
SOC 6118H Sociology of Religion II
SOC 6021Y Sociology and the Policy Process in Canada
SOC 6514H Social Ecology

Special Reading Courses
SOC 6015H A reading course or individual research in an approved field I
SOC 6115H A reading course or individual research in an approved field II

MA Research Paper
SOC 6215Y MA Research Paper

Graduate Faculty

Full Members
Andersen, Robert - BA, MA, PhD
Baber, Zaheer - PhD
Baldus, Bernd - MA, DrRerPol
Baumann, Shyon - BA, MA, PhD (Associate Chair, Graduate Studies)
Berry, Brent - BS, PhD
Bodemann, Michal - MA, PhD
Boyd, Monica - BA, MA, PhD
Brownfield, David - PhD
Bryant, Joseph - MA, PhD
Brym, Robert - BA, MA, PhD
Degree and Diploma Programs by Graduate Unit

Cranford, Cynthia - MA, PhD
Erickson, Bonnie - BA, MA, PhD
Erickson, Patricia - BA, MA, PhD
Fong, Eric - PhD
Fox, Bonnie - AB, PhD
Friedmann, Harriet - AB, MA, PhD
Gartner, Rosemary - BA, AA, MS, PhD
Green, Adam - BA, MA, MSS, PhD
Hammond, Michael - BA, MA, MPH, PhD
Hannah-Moffat, Kelly - BA, MA, PhD
Hannigan, John - BA, MA, PhD
Hermer, Joseph - PhD
Hsiung, Ping-Chun - PhD
Johnston, Josee - AB, MA, PhD
Jones, Charles - BA, MA, PhD
Kervin, John - BA, PhD
Kruttschnitt, Candace - BA, MA, MPH, PhD
Landolt, Patricia - BA, MA, PhD
Levi, Ron - BCL, LLB, LLM, SJD
Magee, William - PhD
Maurutto, Paula - DPhil
Mullen, Ann Louise - BA, MA, PhD
Myles, John - BA, BTH, MA, PhD
Peng, Ito - BSW, BSc, MA, PhD
Reitz, Jeffrey - PhD
Schieman, Scott - BA, MA, PhD
Sev’er, Aysan - BA, MA, PhD
Sorenson, Ann Marie - PhD
Tanner, Julian - DipEd, BSc, MA, PhD
Taylor, Judith - BA, PhD
Tepperman, Lorne - BA, MA, PhD
Ungar, Sheldon - BA, MA, PhD
Veugelers, Jack - PhD
Wellman, Barry - BA, MA, PhD
Welsh, Sandy - BA, MA, PhD
Wheaton, Blair - PhD (Chair and Graduate Chair)
Zhang, Weiguo - PhD

Members Emeriti
Blute, Marion - BA, MA, PhD
Breton, Raymond - BA, MA, PhD
Campbell, Douglas - BA, MA, PhD
Gillis, Ronald - BA, MA, PhD
Hagan, John - BA, MA, PhD
Harvey, Edward - BA, MA, PhD
Howell, Nancy - BA, PhD
Isajiw, Wsevolod - BA, MA, PhD
Magill, Dennis - BA, MA, PhD
Michelson, William - AB, AM, PhD
O’Toole, Roger - DipEd, BA, MA, PhD
Roman, Richard - BA, MA, PhD
Silva, Edward - BA, MA, PhD
Simpson, John - BA, BD, MTH, PhD
Spencer, Metta - AB, MA, PhD
Zeitlin, Irving - BA, MA, PhD

Associate Members
Abraham, Sara - DPhil
Dinovitzer, Ronit - BA, MA, PhD
Farah Schwartzman, Luisa - PhD
Goodman, Philip - MA
Korteweg, Anna - BA, MA, PhD
Leschziner, Vanina - BA, BA, AM, DPhil

Lexchin, Joel - BSc, MSc, MD
Liddle, Kathleen - BA, AM, PhD
Marin, Alexandra - BA, MA, PhD
Moore, Gale - BLS, BSc, AMLS, PhD
Schneiderhan, Erik - PhD
Silver, Daniel - BA, MA, PhD
Wayne, Jack - BA, AM, PhD
Sociology and Equity Studies in Education

Faculty Affiliation
Ontario Institute for Studies in Education

Degree Programs Offered
Sociology in Education – MA, MEd, EdD, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Aboriginal Health
   • Sociology in Education, MA, MEd, EdD, PhD
2. Comparative, International, and Development Education
   • Sociology in Education, MA, MEd, EdD, PhD
3. Diaspora and Transnational Studies
   • Sociology in Education, MA, MEd, EdD, PhD
4. Educational Policy
   • Sociology in Education, MA, MEd, EdD, PhD
5. Environmental Studies
   • Sociology in Education, MA, MEd, EdD, PhD
6. Ethnic and Pluralism Studies
   • Sociology in Education, MA, MEd, EdD, PhD
7. Sexual Diversity Studies
   • Sociology in Education, MA, MEd, EdD, PhD
8. South Asian Studies
   • Sociology in Education, MA, MEd, EdD, PhD
9. Women and Gender Studies
   • Sociology in Education, MA, MEd, EdD, PhD
10. Workplace Learning and Social Change
    • Sociology in Education, MA, MEd, EdD, PhD

Overview
The Department of Sociology and Equity Studies in Education (SESE) offers a full range of programs leading to Master of Arts, Master of Education, Doctor of Education, and Doctor of Philosophy degrees. These programs offer students preparation in sociology in education with an emphasis on equity issues.

Sociology in education is the study of the social context of education. The department understands education as a broad, multi-faceted concept, that is, a social organization of knowledge, teaching, and learning which takes place both within and beyond schooling. “Equity” is the lens through which we approach these phenomena. We blend with this vision the principles of interdisciplinarity and community engagement, and in our programs we actively seek to bridge divisions between theory and practice.

The department offers opportunities to investigate and integrate several thematic areas. Students are encouraged to integrate their studies across a variety of areas. Included in our offerings are courses related to aboriginal and indigenous studies in education; critical race and anti-racism studies in education; culture, communication, and critical education; disability studies in education; feminist studies and gender relations in education; les études francophones; learning, work, and social change; and queer studies in education.

Contact and Address
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Email: kristine.pearson@utoronto.ca
Telephone: (416) 978-0397
Fax: (416) 926-4751
Department of Sociology and Equity Studies in Education
The Ontario Institute for Studies in Education of the University of Toronto
252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

Degree Programs
Sociology in Education

Master of Arts
Minimum Admission Requirements
- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- Admission to the MA program requires an appropriate bachelor’s degree in sociology or a related discipline from a recognized university, with standing equivalent to a University of Toronto mid-B or better in the final year.
- Applicants are required to submit the following. Incomplete applications may be subject to processing delays or rejection:
  - a careful statement of intellectual interests and concerns relevant to sociology and equity studies in education as well as reasons for undertaking a program in the department, including a statement of preference for one or more faculty members whose research is best matched to the student’s research interests
  - two letters of reference, preferably from university instructors with whom the applicant has studied or worked
  - at least one sample of written work in the social sciences
Degree and Diploma Programs by Graduate Unit

**Program Requirements**

- Students choose to complete the MEd program by one of three options:
  - Option II: 4.0 full-course equivalents (FCEs) plus a Major Research Paper (MRP)
  - Option III: 3.0 FCEs plus a thesis
  - Option IV: 5.0 FCEs
- At least half of the FCEs in an MEd program must be SESE courses. Students who are registered in a collaborative program may apply to have their SESE course requirement reduced by 0.5 FCE. Students must consult with their faculty advisor before enrolling in any out-of-department course for which they wish to receive SESE credit.
- The degree may be completed on a full-time or part-time basis.

**Normal Program Length:** Options II and III: 5 sessions full-time; 6 sessions part-time. Option IV: 8 sessions part-time

**Time Limit:** 3 years full-time; 6 years part-time

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**Course List**

Not all courses are offered every year. Please consult OISE/UT’s Graduate Studies Course Schedule.

**Master’s Level**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 1900H</td>
<td>Introduction à la sociologie de l’éducation</td>
</tr>
<tr>
<td>SES 1900H</td>
<td>Introduction to Sociology in Education</td>
</tr>
<tr>
<td>SES 1902H</td>
<td>Introductory Sociological Research Methods in Education</td>
</tr>
<tr>
<td>SES 1904H</td>
<td>Introduction to Sociological Theory in Education</td>
</tr>
<tr>
<td>SES 1905H</td>
<td>Qualitative Approaches to Sociological Research in Education</td>
</tr>
<tr>
<td>SES 1909H</td>
<td>Environmental Sustainability and Social Justice 1</td>
</tr>
<tr>
<td>SES 1911H</td>
<td>Sociologie de l’éducation spécialisée</td>
</tr>
<tr>
<td>SES 1912H</td>
<td>Foucault and Research in Education and Culture: Discourse, Power and the Subject</td>
</tr>
<tr>
<td>SES 1913H</td>
<td>SESE Learning to Succeed in Graduate School (Non Credit)</td>
</tr>
<tr>
<td>SES 1915H</td>
<td>Education and Popular Culture</td>
</tr>
<tr>
<td>SES 1919H</td>
<td>Environmental Sustainability and Social Justice 2</td>
</tr>
<tr>
<td>SES 1921Y</td>
<td>The Principles of Anti-Racism Education</td>
</tr>
<tr>
<td>SES 1922H</td>
<td>Sociology of Race and Ethnicity</td>
</tr>
<tr>
<td>SES 1923H</td>
<td>Racism, Violence, and the Law: Issues for Researchers and Educators</td>
</tr>
<tr>
<td>SES 1924H</td>
<td>Modernization, Development, and Education in African Contexts</td>
</tr>
<tr>
<td>SES 1925H</td>
<td>Indigenous Knowledge and Decolonization: Pedagogical Implications</td>
</tr>
<tr>
<td>SES 1925H</td>
<td>Savoir indigène et décolonisation</td>
</tr>
<tr>
<td>SES 1926H</td>
<td>Race, Space and Citizenship: Research Methods</td>
</tr>
</tbody>
</table>

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**Master of Education**

**Minimum Admission Requirements**

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- Admission to the MEd requires an appropriate bachelor’s degree from a recognized university, with standing equivalent to a University of Toronto mid-B or better in the final year.
- Applicants must have the equivalent of 12 months’ professional experience.
- Applicants are required to submit the following. Incomplete applications may be subject to processing delays or rejection:
  - a careful statement of intellectual interests and concerns relevant to sociology and equity studies in education as well as reasons for undertaking a program in the department, including a statement of preference for one or more faculty members whose research is best matched to the student’s research interests
  - two letters of reference, preferably from university instructors with whom the applicant has studied or worked
  - at least one sample of written work in the social sciences
- See the OISE Graduate Bulletin for further information.
Degree and Diploma Programs by Graduate Unit

SES 1927H Migration and Globalization
SES 1929H Theorizing Asian Canada
SES 1930H Race, Indigenous Citizenship and Self-Determination: Decolonizing Perspectives
SES 1951H L’École et la communauté
SES 1954H Marginality and the Politics of Resistance
SES 1956H Social Relations of Cultural Production in Education
SES 1957H Doing Disability in Theory and Everyday Life
SES 1959H The School and the Community
SES 1982H Women, Diversity, and the Educational System
SES 1989H Black Feminist Thought
SES 1992H Feminism and Poststructuralism in Education
SES 2910H Changes in Families and Policy Consequences for Government and Education
SES 2941H Social Inequities and Education: Theoretical Implications
SES 2942H Education and Work
SES 2998H Individual Reading and Research in Sociology and Equity Studies in Education: Master’s Level
SES 2999H Special Topics in Sociological Research in Education
JTE 1952H Language, Culture, and Education
JTE 1952H Langue, culture et education
JTE 2912H Teacher’s Work: Classrooms, Careers, Cultures, and Change
WPL 2944H Sociology of Learning and Social Movements

Doctor of Education
The EdD degree program is distinct from the PhD in that students are encouraged to orient toward applied and theoretical dimensions of professional educational practice understood as knowledge, teaching and learning which takes place within or beyond schooling.

Minimum Admission Requirements
- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- Admission to the EdD requires a University of Toronto MEd or MA in education, or its equivalent from a recognized university, in the same field of specialization proposed at the doctoral level, completed with standing equivalent to a University of Toronto B+ or better in master’s courses.
- Applicants must have the equivalent of 12 months’ professional experience.
- Applicants are required to submit the following. Incomplete applications may be subject to processing delays or rejection:
  - a careful statement of intellectual interests and concerns relevant to sociology and equity studies in education as well as reasons for undertaking a program in the department, including a statement of preference for one or more faculty members whose research is best matched to the student’s research interests
  - two letters of reference, preferably from university instructors with whom the applicant has studied or worked
  - at least one sample of written work in the social sciences
- See the OISE Graduate Bulletin for further information.

Program Requirements
- The EdD degree may be pursued on a full-time or part-time basis
- 4.0 full-course equivalents (FCEs), of which at least 2.0 FCEs must be SESE courses. Students who are registered in a collaborative program may apply to have their SESE course requirement reduced by 0.5 FCE. Students must consult with their faculty advisor before enrolling in any out-of-department course for which they wish to receive SESE credit.
- EdD students may begin their studies on a part-time basis. However, they must register full-time for a minimum of two consecutive sessions, not including summer, of on-campus study and then maintain continuous registration full-time subsequently until all degree requirements, including the thesis, are completed.

Normal Program Length: 4 years full-time; 6 years part-time
Time Limit: 6 years full-time; 8 years part-time

Doctor of Philosophy
The PhD degree program is designed to provide opportunities for advanced study, original research, and theoretical analysis.

Minimum Admission Requirements

Full-Time PhD
- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- PhD students who are admitted without sufficient previous study in sociology or a cognate discipline may be required to take additional courses.
Applicants are required to submit the following. Incomplete applications may be subject to processing delays or rejection:

- a careful statement of intellectual interests and concerns relevant to sociology and equity studies in education as well as reasons for undertaking a program in the department, including a statement of preference for one or more faculty members whose research is best matched to the student’s research interests
- two letters of reference, preferably from university instructors with whom the applicant has studied or worked
- at least one sample of written work in the social sciences

See the OISE Graduate Bulletin for further information.

Flexible-Time PhD

Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option. However, in addition, applicants to the flexible-time PhD should demonstrate that they are active professionals engaged in activities relevant to their proposed program of study. See the OISE Bulletin for more information.

Program Requirements

- PhD students have the option of undertaking the program on a full-time or flexible-time basis.
  - Full-time PhD students must maintain full-time status throughout their program of study. Students take 3.0 full-course equivalents (FCEs), though additional courses may be required, and some students may be required to take specified courses in research methods and/or sociological theory. At least ¾ of students’ PhD coursework must be taken within SESE. Students who are registered in a collaborative program may apply to have their SESE course requirement reduced by 0.5 FCE. Students must consult with their faculty advisor before enrolling in any out-of-department course for which they wish to receive SESE credit.
  - Flexible-time PhD students register full-time during the first four years and part-time during subsequent years of the program. The flexible-time PhD degree is designed to accommodate demand by practicing professionals for a PhD degree that permits continued employment in areas related to their fields of research. Degree requirements for the flexible-time PhD programs are the same as for full-time PhD studies: at least 3.0 FCEs of which at least 2.0 FCEs must be taken in SESE with the possibility to apply for a reduction of 0.5 FCE in the SESE course requirement if the student is also registered in a collaborative program. Students would normally take at least one specialized research methods course.
- All PhD students must also successfully complete the non-credit course SES 1913H SESE Thesis Students’ Seminar.
- All PhD students must complete a comprehensive examination.
- All PhD students must submit a thesis and defend it at a doctoral final oral examination. The thesis must embody the results of original investigation conducted by the student under the direction of an OISE thesis committee. The thesis must constitute a significant contribution to the knowledge of the field of study. The student must have an approved thesis topic, supervisor, and an approved thesis committee by the end of the third year of registration, and must have completed all other program requirements.

Normal Program Length: 4 years full-time; 6 years flexible-time

Time Limit: 6 years full-time; 8 years flexible-time

Course List

Not all courses are offered every year. Please consult OISE/UT’s Graduate Studies Course Schedule.

Doctoral Level

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 3910H</td>
<td>Advanced Seminar on Race and Anti-Racism Research Methodology in Education</td>
</tr>
<tr>
<td>SES 3911H</td>
<td>Cultural Knowledges, Representation and Colonial Education</td>
</tr>
<tr>
<td>SES 3912H</td>
<td>Race and Knowledge Production: Research Methods</td>
</tr>
<tr>
<td>SES 3915H</td>
<td>Franz Fanon and Education</td>
</tr>
<tr>
<td>SES 3929H</td>
<td>Advanced Disability Studies: Interpretive Methods, Interpreted Bodies — Research Methods</td>
</tr>
<tr>
<td>SES 3930H</td>
<td>Methods to Avoid Sexist, Racist and Ableist Biases in Research</td>
</tr>
<tr>
<td>JHS 3932H</td>
<td>Women and Higher Education</td>
</tr>
<tr>
<td>SES 3933H</td>
<td>Globalisation and Transnationality: Feminist Perspectives</td>
</tr>
<tr>
<td>SES 3949H</td>
<td>Advanced Studies in Learning and Work: Class Conflict, Labour and Learning in the Information Age</td>
</tr>
<tr>
<td>SES 3997H</td>
<td>Practicum in Sociology and Equity Studies in Education</td>
</tr>
<tr>
<td>SES 3998H</td>
<td>Individual Reading and Research in Sociology and Equity Studies in Education: Doctoral Level</td>
</tr>
<tr>
<td>SES 3999H</td>
<td>Special Topics in Advanced Sociological Research in Education</td>
</tr>
<tr>
<td>JSA 5147H</td>
<td>Language, Nationalism and Post-Nationalism</td>
</tr>
</tbody>
</table>
Degree and Diploma Programs by Graduate Unit

WPL 2944H  Sociology of Learning and Social Movements
WPL 3931H  Workplace Learning and Social Change – Doctoral

Graduate Faculty

Full Members
Acker, Sandra - BA, MA, PhD
Coloma, Roland Sintos - TD, BA, MA, MA, PhD
Dehli, Kari - BA, MA, PhD
Dei, George JS - BA, MA, PhD
Eichler, Margrit - MA, PhD, LLD
Farmer, Diane - BA, MSS, PhD
Gaskell, Jane - BA, EdD
Heller, Monica - BA, MA, PhD
Iseke-Barnes, Judy - BA, PhD
Lenskyj, Helen - BA, MA, PhD
Livingstone, David - BA, PhD
Olson, Paul - BA, MA
Quarter, Jack - PhD
Razack, Sherene - BA, MA, PhD
Sawchuk, Peter - BSc, BEd, PhD
Simon, Roger - BS, PhD
Titchkosky, Tanya - BA, MA, PhD (Coordinator of Graduate Studies)
Trotz, Alissa - AB, MPH, PhD
Walcott, Rinaldo - BA, MA, PhD (Chair and Graduate Chair)
Wane, Njoki - BE, MSc, MEd, PhD
Wiebe, Donald - BTH, BA, MA, PhD

Members Emeriti
Pierson, Ruth - BA, MA, PhD

Associate Members
Baines, Donna - BSW, MSW, DSW
Cannon, Martin - MA, PhD
DeYoung, Alan J. - BA, MA, PhD
Farley, Lisa - BA, BEd, MEd, PhD
Hsiung, Ping-Chun - PhD
Larkin, June - PhD
Michalko, Rod - BA, MA, PhD
Ng, Roxana - BA, MA, PhD
Tarc, Aparna - BA, BE, MEd, PhD
Waldron, Ingrid - BA, MA, PhD
Walton, Fiona - BE, BA, MEd, EdD
Spanish

Faculty Affiliation
Arts and Science

Degree Programs Offered
Spanish – MA, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Diaspora and Transnational Studies
   - Spanish, MA, PhD
2. Editing Medieval Texts
   - Spanish, PhD
3. Women and Gender Studies
   - Spanish, MA, PhD

Overview
The Department of Spanish offers graduate programs leading to two degrees: Master of Arts and Doctor of Philosophy. MA and PhD students specialize in one of three fields:
- Spanish Peninsular Literature
- Latin American Literature
- Hispanic Linguistics

Applicants are accepted under the General Regulations of the School of Graduate Studies and must also satisfy the department’s requirements stated below. In all cases, programs must be approved by the department.

The application process for the Master of Arts program is competitive; meeting the minimum standards for admission does not guarantee acceptance.

The admissions process for the Doctor of Philosophy program is competitive; it is based on a number of factors in addition to grades. The principal factors include the ability of the department to offer undergraduate work in the applicant’s preferred areas of interest, the availability of appropriate supervisory resources, and the suitability of the applicant in relation to the academic profile and programs of the department. The department does not allow direct entry to the PhD program with a BA, nor does it allow MA students to transfer to the PhD program before the coursework for the MA is completed.

Contact and Address
Web: www.spanport.utoronto.ca
Email: spanport@chass.utoronto.ca or spanish.graduate@utoronto.ca
Telephone: (416) 813-4080 or (416) 813-4082
Fax: (416) 813-4084

Department of Spanish
University of Toronto
Victoria College
Room 208, 91 Charles Street West
Toronto, Ontario M5S 1K7
Canada

Degree Programs
Spanish

Master of Arts
Minimum Admission Requirements
- An appropriate bachelor’s degree in Spanish or a cognate discipline from a recognized university.
- Fluency in spoken and written Spanish with a general background in Hispanic literature and/or linguistics, normally demonstrated through undergraduate coursework.
- Applicants apply online and should arrange for electronic submission of the following material:
  - a one-page statement of purpose, outlining the applicant’s areas of interest
  - a sample of written work in Spanish (10–12 pages)
  - two letters of recommendation (one of the letters must comment on the applicant’s fluency in Spanish)

Program Requirements
- 4.0 full-course equivalents (FCEs) at the graduate level.
- MA students specialize in one of three fields:
  - Spanish Peninsular Literature
  - Latin American Literature
  - Hispanic Linguistics
- Specialization requires that each student complete coursework in accordance with distribution requirements for each field, defined in terms of the various areas of the graduate curriculum. Specific requirements by field are available on the department’s website.
- With departmental approval, courses may be taken in a cognate discipline (for example, Comparative Literature, French, History, Linguistics, Medieval Studies, Women’s Studies).
- It is the department’s expectation that full-time students will complete all program requirements in one academic year. The MA program is also available on a part-time basis. Applicants should be aware that part-time students are not eligible for funding.
- Students in the field Hispanic Linguistics must have completed an introductory course in linguistics
(LIN 100Y or an equivalent course). Students who have not completed LIN 100Y as part of their undergraduate studies must take this course in the summer directly preceding their admission to the MA program.

**Normal Program Length:** 3 sessions full-time; 6 sessions part-time

**Time Limit:** 3 years full-time; 6 years part-time

### Doctor of Philosophy

**Minimum Admission Requirements**

- Master’s degree from a recognized university in an appropriate discipline with an average of A- or higher. Applicants apply online and should arrange for electronic submission of the following material:
  - a one-page statement of purpose, outlining the applicant’s areas of interest
  - a sample of written work in Spanish (10–12 pages)
  - two letters of recommendation (one of the letters must comment on the applicant’s fluency in Spanish)

**Program Requirements**

- PhD students specialize in one of three fields:
  - Spanish Peninsular Literature
  - Latin American Literature
  - Hispanic Linguistics
- **4.0 full-course equivalents** (FCEs). It is expected that students will complete the required coursework in year one. However, with the approval of the Graduate Coordinator, up to 1.0 FCE may be taken in year two. Each field has distribution requirements; details on the department’s website.

- By March 15 of year one each student must seek approval from the Graduate Advisory Committee for the proposed area of his/her dissertation and the membership of the Field Examination Committee (normally the proposed dissertation supervisor and two other members of the graduate faculty). The Graduate Advisory Committee will respond in writing by May 1 of the same year. The final decision in this matter rests with the Graduate Advisory Committee

- The field examination centres on two sub-fields of Hispanic Literature or Linguistics: the sub-field of the student’s proposed dissertation research and a sub-field relevant to the student’s research and general preparation.

- By October 1 of year two each student must submit to the Graduate Coordinator a brief statement (three to four pages double-spaced) concerning the primary and secondary sub-fields for the field examination and two reading lists (one for each sub-field). Each reading list should consist of 25–30 items and should include primary and secondary sources. The student’s committee will review this material and meet with the student to indicate revisions or additions to the reading lists. The student must file final copies of the two reading lists, as approved by the committee, with the Graduate Coordinator by November 1.

- The field examination will take place between January 15 and February 15 of year two. It has two parts: a written examination of six hours and an oral examination of two hours. Each part will cover the primary and secondary sub-fields that the student has prepared. The written examination will consist of three questions, at least one of which must be answered in Spanish, and will be written in the last two weeks of January. The oral examination will follow in the first two weeks of February; it will normally be conducted in Spanish, although English may be used to accommodate committee members from cognate units. The Field Committee will grade the two parts of the examination together, on a credit/non-credit basis. A student who does not receive credit on the first attempt must retake both parts of the examination by May 10.

- Each student must submit a dissertation proposal on the research questions and methodology of his/her proposed research (20–25 pages double-spaced, plus a bibliography) to the Graduate Coordinator by April 25 of his/her second year of enrolment in the program. The proposal should be written in the language that the student intends to use in writing the dissertation (Spanish or English). Each student must defend his/her dissertation proposal in a two-hour oral examination to be held by May 15, normally conducted in the language of the student’s proposal. The student’s Field Committee will grade the written proposal and the oral examination on a credit/non-credit basis. A student who does not receive credit on the first attempt must revise and resubmit the dissertation proposal by September 15 of his/her third year of enrolment and retake the oral examination on the proposal by October 15 of that year.

- **Language requirements** must be fulfilled before registering for year four. Each student must demonstrate a reading knowledge of French and of a third non-English language relevant to his/her area of research. These language requirements may be satisfied by passing the appropriate reading knowledge examinations offered by the various departments of language and literature at the University of Toronto. Significant prior training in a language (such as an undergraduate major or minor) will also be accepted as demonstration of reading knowledge.

- Years 3 and 4 are devoted to researching and writing the doctoral dissertation. The Supervisory Committee must normally approve the dissertation before the candidate can proceed to the doctoral final oral examination.
Students fulfil the **residence requirement** by being registered as full-time on-campus and must reside in sufficient geographical proximity to enable them to fulfil the requirements of the program in a timely fashion. They are also expected to participate fully in departmental activities. While writing the dissertation, candidates are expected to be in residence, with the exception of absences for research purposes and approved leaves.

**Normal Program Length:** 4 years  
**Time Limit:** 6 years full-time

### Course List
Most graduate courses are offered in a regular rotation. As a result, approximately half of the courses that appear in this calendar entry will be available in a given academic session. A list of offered courses is posted on the department's website.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COL 5019H</td>
<td>Cervantes and Humanism</td>
</tr>
<tr>
<td>COL 5029H</td>
<td>Reading Cervantes</td>
</tr>
<tr>
<td>COL 5032H</td>
<td>Feminist Approaches to Medieval Literature</td>
</tr>
<tr>
<td>COL 5064H</td>
<td>Medieval Literary Theory</td>
</tr>
<tr>
<td>COL 5066H</td>
<td>The Forms of Literature in the Age of Electricity</td>
</tr>
<tr>
<td>COL 5072H</td>
<td>Affinities: Readings of Realism and Radicalism</td>
</tr>
<tr>
<td>JRL 1100Y</td>
<td>Introduction to Romance Philology</td>
</tr>
<tr>
<td>JRL 1101H</td>
<td>Topics in Romance Laboratory Phonetics and Phonology I: Theory</td>
</tr>
<tr>
<td>JRL 1106H</td>
<td>Topics in Romance Laboratory Phonetics and Phonology II</td>
</tr>
<tr>
<td>LIN 1029H</td>
<td>Sound Patterns in Language</td>
</tr>
<tr>
<td>LIN 1031H</td>
<td>Morphological Patterns in Language</td>
</tr>
<tr>
<td>SPA 1053H</td>
<td>History of the Spanish Language</td>
</tr>
<tr>
<td>SPA 1080H</td>
<td>Descriptive Grammar of Spanish</td>
</tr>
<tr>
<td>SPA 1081H</td>
<td>The Structure of Spanish</td>
</tr>
<tr>
<td>SPA 1082H</td>
<td>Sociolinguistics of Spanish</td>
</tr>
<tr>
<td>SPA 1083H</td>
<td>Microvariation in Spanish</td>
</tr>
<tr>
<td>SPA 1084H</td>
<td>Experimental Approaches to Hispanic Linguistics</td>
</tr>
<tr>
<td>SPA 1088H</td>
<td>Spanish Syntax</td>
</tr>
<tr>
<td>SPA 1098H</td>
<td>Morphposyntax</td>
</tr>
<tr>
<td>SPA 1097H</td>
<td>Second-Language Teaching and Methodology</td>
</tr>
<tr>
<td>SPA 1101H</td>
<td>Topics in the Acquisition of Spanish</td>
</tr>
<tr>
<td>SPA 1103H</td>
<td>Topics in Spanish Phonology</td>
</tr>
<tr>
<td>SPA 1104H</td>
<td>Experimental Approaches to Sound Variation and Change</td>
</tr>
<tr>
<td>SPA 1150H</td>
<td>Directed Research in Hispanic Linguistics</td>
</tr>
<tr>
<td>SPA 2018H</td>
<td>Poetics of Early Drama</td>
</tr>
<tr>
<td>SPA 2021H</td>
<td>The Politics of Print</td>
</tr>
<tr>
<td>SPA 2022H</td>
<td>Books and Borders</td>
</tr>
<tr>
<td>SPA 2025H</td>
<td>The Worlds of Alfonso X, el Sabio</td>
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<tr>
<td>SPA 2031H</td>
<td>Writing that Conquers: Early Colonial Historiography</td>
</tr>
<tr>
<td>SPA 2121H</td>
<td>Psychoanalysis and the Passions in Early Modern Literature</td>
</tr>
<tr>
<td>SPA 2150H</td>
<td>Defining Journeys in the Spanish Empire</td>
</tr>
<tr>
<td>SPA 2171H</td>
<td>Politics and Aesthetics of Early Modern Verse</td>
</tr>
<tr>
<td>SPA 2187H</td>
<td>Comedy and the Comedia in Early Modern Spain</td>
</tr>
<tr>
<td>SPA 2189H</td>
<td>Lope and Calderón</td>
</tr>
<tr>
<td>SPA 2284H</td>
<td>Narrative and Political Transition in Contemporary Spain</td>
</tr>
<tr>
<td>SPA 2291H</td>
<td>The Urban Experience in Spain</td>
</tr>
<tr>
<td>SPA 2305H</td>
<td>Auteurism in Spanish Cinema</td>
</tr>
<tr>
<td>SPA 2352H</td>
<td>Modern Spanish Drama and Its Traditions</td>
</tr>
<tr>
<td>SPA 2404H</td>
<td>The Latin American Novel</td>
</tr>
<tr>
<td>SPA 2405H</td>
<td>Issues of Testimoni</td>
</tr>
<tr>
<td>SPA 2432H</td>
<td>Text and Imagery in Latin American Culture</td>
</tr>
<tr>
<td>SPA 2802H</td>
<td>The Politics of Errantry in the Hispanic Caribbean</td>
</tr>
<tr>
<td>SPA 2805H</td>
<td>Representations of Women in Latin American Culture</td>
</tr>
<tr>
<td>SPA 2850H</td>
<td>Nineteenth-Century Latin American Literature</td>
</tr>
<tr>
<td>SPA 2900H</td>
<td>Issues in Literary Theory and Hispanic Texts</td>
</tr>
<tr>
<td>SPA 2905H</td>
<td>Latin American Cultural Theories</td>
</tr>
<tr>
<td>SPA 3000H,Y</td>
<td>Directed Research in Hispanic Literatures</td>
</tr>
</tbody>
</table>

### Graduate Faculty

#### Full Members
- Blackmore, Josiah - PhD (Chair and Graduate Chair)  
- Colantoni, Laura - MA, PhD  
- Cuervo, Maria Cristina - PhD  
- Davidson, Robert - BA, AM, PhD  
- Jagoe, Eva-Lynn - BA, MA, PhD  
- Munjic, Sandra - BA, AM, PhD  
- Perez-Leroux, Ana Teresa - MA, PhD  
- Rodriguez, Nestor - BA, PhD  
- Rupp, Stephen - BA, MA, MPH, MA, PhD  
- Sarabia, Rosa - BA, PhD  
- Sternberg, Ricardo - BA, MA, PhD

#### Members Emeriti
- Burke, James - BA, MA, PhD  
- Ellis, Keith Aa - BA, PhD  
- Glickman, Robert - AB, AM, PhD  
- Gulsoy, Joseph - BA, BA, MA, PhD  
- Leon, Pedro - BA, MA, PhD  
- Neglia, Erminio - BA, MA, PhD  
- Percival, Anthony - BA, MA, PhD  
- Rolph, Wendy - BA, MA, MPH  
- Skyrme, Raymond - BA, MA, PhD  
- Valdes, Mario - BA, MA, PhD  
- Webster, Jill - BA, MA, PhD

#### Associate Members
- Antebi, Susan - AM, PhD  
- Iglesias, Yolanda - BA, BA, MA, PhD  
- Ramirez-Salazar, Manuel - BA, MA, PhD
Speech-Language Pathology

Faculty Affiliation
Medicine

Degree Programs Offered
Speech-Language Pathology – MHSc, MSc, PhD

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Aging, Palliative and Supportive Care Across the Life Course
   • Speech-Language Pathology, MSc, PhD
2. Neuroscience
   • Speech-Language Pathology, MSc, PhD

Overview
Speech-language pathology is concerned with normal and disordered human communication and swallowing. The department offers professional and research degree programs leading to careers in the discipline.

The Master of Health Science program in speech-language pathology is a professional graduate program that may be taken on a full-time or part-time basis. The primary aim of the program is to prepare practitioners for entry into the practice of speech-language pathology. Graduates are prepared to assume varied professional responsibilities including the assessment, treatment, and management of speech, voice, language, and swallowing disorders. Coursework and clinical internships are integrated and sequenced. There is a strong research to practice focus and students complete a comprehensive portfolio requirement in their final year.

The Master of Science degree is a full-time program that prepares students to engage in the scientific study of normal and disordered speech, language, and swallowing processes in children and adults. The MSc is a research-oriented program and does not prepare students for clinical practice. Although the primary objective of the MSc program is to prepare students for doctoral studies in speech and language sciences, successful completion of the program does not guarantee entrance into the PhD program.

The purpose of the Doctor of Philosophy program is to prepare students to contribute independently to the advancement of scientific knowledge in their area of specialization within the discipline of speech-language pathology.

Contact and Address
Web: www.slp.utoronto.ca
Email: speech.path@utoronto.ca
Telephone: (416) 978-2765
Fax: (416) 978-1596
Department of Speech-Language Pathology
University of Toronto
Rehabilitation Sciences Building
Room 160, 500 University Avenue
Toronto, Ontario M5G 1V7
Canada

Degree Programs
Speech-Language Pathology

Master of Health Science

Minimum Admission Requirements
- An appropriate bachelor’s degree from a recognized university, with standing equivalent to at least a University of Toronto mid-B in the final year.
- Prerequisite courses in child development, linguistics, phonetics, statistics, and human physiology.
- Facility in oral and written English required for both the academic and applied aspects of the program. Applicants who were educated outside Canada, whose primary language is not English, and who graduated from a university where the language of instruction was not English, must demonstrate facility in the English language through the successful completion of one of the English proficiency tests. To satisfy the requirement, the department strongly prefers the Test of English as a Foreign Language (TOEFL) with the following minimum scores:
  - paper-based TOEFL: 600 with 5 on the Test of Written English (TWE) and 50 on the Test of Spoken English (TSE)
  - Internet-based TOEFL: 100/120 with 22/30 on the speaking section and 22/30 on the writing section.
- If an applicant finds it impossible to take the TOEFL, TWE, and TSE, the department will accept one of the following:
  - Michigan English Language Assessment Battery (MELAB) with a minimum score of 85
  - International English Language Testing System (IELTS) with a minimum score of 8.0
- Applicants may be requested to attend a personal meeting with members of the Department of Speech-Language Pathology during which their mastery of oral English for meeting clinical requirements will be assessed.
• See the departmental website for a full listing of admission requirements.

**Program Requirements**

• The professional MHSc program is divided into five academic and four clinical units. Each academic unit is made up of related coursework. Teaching within and across units emphasizes integrated learning experiences. Academic units are followed by full-time clinical placements, each lasting between four and 10 weeks for a total of 31 weeks of clinical experience throughout the two-year program. Students should anticipate receiving at least one placement outside of metropolitan Toronto. Students must accept placements offered to them and are responsible for all travel and accommodation costs.

• The MHSc program does not have a thesis requirement; however, prior to graduation, all MHSc students will be required to complete a portfolio that demonstrates their proficiency in key areas of professional practice.

• Students enrolled in the full-time program must complete all requirements within three consecutive years.

• Part-time students must choose one of three options for program completion: four-year, five-year, or six-year. Each option includes a prescribed sequence of academic and clinical units that must be followed. Part-time students must complete clinical units on a full-time basis (five days per week).

**Courses for the MHSc Program**

Consult the departmental website for a listing of courses offered during each academic year.

**The first year of the program for full-time students will consist of:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLP 1500Y</td>
<td>Internship (Credit/No Credit)</td>
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<tr>
<td>SLP 1502Y</td>
<td>Anatomy and Embryology</td>
</tr>
<tr>
<td>SLP 1503Y</td>
<td>Articulation and Related Disorders</td>
</tr>
<tr>
<td>SLP 1505Y</td>
<td>Child Language I</td>
</tr>
<tr>
<td>SLP 1506H</td>
<td>Child Language II</td>
</tr>
<tr>
<td>SLP 1507H</td>
<td>Clinical Laboratory in Speech-Language Pathology</td>
</tr>
<tr>
<td>SLP 1514Y</td>
<td>Applied Audiology</td>
</tr>
<tr>
<td>SLP 1516H</td>
<td>Aural Rehabilitation</td>
</tr>
<tr>
<td>SLP 1520H</td>
<td>Principles of Clinical Practice</td>
</tr>
<tr>
<td>SLP 1521H</td>
<td>Augmentative Communication</td>
</tr>
</tbody>
</table>

**The second year of the program for full-time students will consist of:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLP 1508Y</td>
<td>Advanced Clinical Laboratory in Speech-Language Pathology</td>
</tr>
<tr>
<td>SLP 1525H</td>
<td>Structurally Related Disorders</td>
</tr>
<tr>
<td>SLP 1527H</td>
<td>Physical Analysis of Speech Disorders</td>
</tr>
<tr>
<td>SLP 1528H</td>
<td>Research in Speech-Language Pathology</td>
</tr>
<tr>
<td>SLP 1533Y</td>
<td>Aphasia</td>
</tr>
<tr>
<td>SLP 1534H</td>
<td>Motor Speech Disorders</td>
</tr>
<tr>
<td>SLP 1535H</td>
<td>Advanced Principles of Clinical Practice</td>
</tr>
<tr>
<td>SLP 1536H</td>
<td>Swallowing Disorders</td>
</tr>
<tr>
<td>SLP 1538H</td>
<td>Neurocognitive Communication Disorders</td>
</tr>
<tr>
<td>SLP 2500Y</td>
<td>Advanced Internship</td>
</tr>
</tbody>
</table>

**Master of Science**

**Minimum Admission Requirements**

• An appropriate bachelor's degree in speech-language pathology or a related discipline.

• Prior to admission, an applicant must identify a faculty member who has agreed to serve as research supervisor. The research supervisor may want to examine a completed thesis and/or manuscripts and university transcripts.

• Applicants who were educated outside Canada, whose primary language is not English, and who graduated from a university where the language of instruction was not English, must demonstrate facility in the English language through the successful completion of one of the English proficiency tests listed in this calendar. See General Regulations, 4.1.10 English Language Facility.

**Program Requirements**

• Course requirements are determined by the student's supervisory committee. Normally, the student is required to complete satisfactorily a minimum of 2.0 full-course equivalents (FCEs), consisting of at least 1.0 FCE in research design and methodology, and at least 1.0 FCE in the area of research interest.

• One-year residency period which typically is sufficient for completion of the coursework.

• Participate in student and faculty research seminars.

• Engage in a research project, present the results in a written thesis, and complete a successful oral defence of the thesis.

• Reclassification. MSc students who demonstrate outstanding potential for advanced research in the discipline may be recommended by their research supervisors.
supervisory committee for a reclassification examination which, when passed, allows them direct advancement to the PhD program. Examination normally is undertaken following the completion of at least one session and within 18 months of registration in the MSc program.

**Normal Program Length:** 6 sessions full-time  
**Time Limit:** 3 years full-time

### Doctor of Philosophy

#### Minimum Admission Requirements

- Normally, applicants are expected to have completed a MSc or MA degree in speech-language pathology or a related discipline, with a minimum of a B+ average over the course of the program.
- Demonstrated advanced research qualifications in speech and language sciences.
- Prior to admission, an applicant must identify a faculty member who has agreed to serve as research supervisor. The research supervisor may want to examine a completed thesis and/or manuscripts, reference letters, and university transcripts.
- Applicants who were educated outside Canada, whose primary language is not English, and who graduated from a university where the language of instruction was not English, must demonstrate facility in the English language through the successful completion of one of the English proficiency tests listed in this calendar. Students who graduated from a university outside North America are strongly encouraged to contact the Coordinator of Graduate Studies before applying. See General Regulations, English Language Facility.

- **Reclassification.** MSc students who demonstrate outstanding potential for advanced research in the discipline may be recommended by their supervisory committee for a reclassification examination which, when passed, allows them direct advancement to the PhD program. Examination normally is undertaken following the completion of at least one session and within 18 months of registration in the MSc program.

#### Program Requirements

- Course requirements are determined by the student’s supervisory committee and consist of a minimum of 3.0 full-course equivalents (FCEs).
- Students must demonstrate evidence of adequate knowledge in research design and statistics or must include suitable coursework as determined by the supervisory committee.
- Participate in student and faculty research seminars in addition to their regular course requirements.
- The doctoral program consists of two phases, each taking approximately 18 to 24 months to complete. During the first phase of the program, the student completes all course requirements and initiates the development of a research thesis proposal, including the collection of preliminary experimental data, if appropriate. At the conclusion of this first phase, the student completes a departmental comprehensive examination that includes a full research proposal and a conceptual paper on a topic chosen by the student and the supervisory committee. The second phase of the program is devoted almost exclusively to the completion of the thesis research project. At the conclusion of this second phase, the student defends the research thesis at a doctoral final oral examination in accordance with the regulations of the School of Graduate Studies.
- Students complete a residency requirement during the first two years of the program.

**Normal Program Length:** 4 years full-time  
**Time Limit:** 6 years full-time; 7 years transfer-from-master’s

### Courses for the MSc and PhD Programs

- **SLP 3001H** Theoretical Foundations of Communication Sciences  
- **SLP 3002H** Research Methodologies in Communication Sciences  
- **SLP 3003H** Reading Seminar 1  
- **SLP 3004H, Y** Reading Seminar 2  
- **SLP 4000H** Reading Seminar 1  
- **SLP 4001H** Philosophical and Theoretical Foundations of Communication Sciences  
- **SLP 4007H, Y** Reading Seminar 2

### Special Courses Offered to Students from Other Departments

- **SLP 2501H** Special Topics in Communication Disorders  
- **SLP 2502Y** Specialized Study in Communication Disorders

### Graduate Faculty

#### Full Members

Abel, Sharon - BA, MA, PhD  
Bressmann, Tim - MPH, PhD  
De Nil, Luc - MSc, PhD  
Eriks-Brophy, Alice - BEd, AB, MSL, PhD  
Girolametto, Luigi - BA, MSc, PhD (Chair and Graduate Chair)  
Hyde, Martyn - BSc, PhD  
Martino, Rosemary - BS, MA, DPH  
Rochon, Elizabeth - BA, MSc, PhD
Smyth, Ronald - BA, MSc, PhD
Square, Paula Ann - BSc, MA, PhD
Stewart, Patricia - BSc, MSc, PhD
van Lieshout, Pascal - MA, MA, PhD
Yunusova, Yana - MS, MA, PhD

**Associate Members**
Bradley, Kimberley - BA, MHSc, PhD
Deluzio, Joanne - BSc, MCLSC, PhD
Ellwood, Lynn - BSc(CD), MA
Irish, Jonathan - MSc, MD
Jokel, Regina - MHSc, PhD
Kagan, Aura - BAA, BA, MA, PhD
Kroll, Robert - BSc, MSc, PhD
Leonard, Carol - BA, MA, PhD
Parnes, Pauline - BSc
Roberts, Sheila - BSc, MD
Steele, Catriona - BA, MHSc, PhD
Wagner, Susan - BSc, MSc
Weitzman, Elaine - BA, MEd
Statistics

Faculty Affiliation
Arts and Science

Degree Programs Offered
Statistics – MSc, PhD

Overview
Statistics is the study of random phenomena and as such encompasses a broad range of scientific, industrial, and social processes. The past several decades have witnessed a vast impact of statistical methods on virtually every branch of knowledge and empirical investigation.

The Department of Statistics offers opportunities for study and research in the areas of (a) Statistical Theory and Applications, (b) Probability, and (c) Actuarial Science/Mathematical Finance, leading to the Master of Science and the Doctor of Philosophy degrees. The department has substantial computing facilities available and operates a statistical consulting service for the university's research community. Programs of study may involve association with other departments such as Mathematics, Mechanical and Industrial Engineering, Computer Science, and Public Health Sciences. The department maintains an active seminar series and strongly encourages participation by graduate students.

Students are accepted under the General Regulations. Proof of English facility must also be shown for all applicants whose first language is not English and who studied at an institution where the language of instruction was other than English.

Interested applicants should refer to the detailed information available on the department’s website.

Contact and Address
Web: www.utstat.utoronto.ca
Email: grad-info@utstat.utoronto.ca
Telephone: (416) 978-5136
Fax: (416) 978-5133
Department of Statistics
University of Toronto
Sidney Smith Hall
Room 6022, 100 St. George Street
Toronto, Ontario M5S 3G3
Canada

Degree Programs

Statistics

Master of Science

Minimum Admission Requirements
- An appropriate bachelor’s degree from a recognized university, with a final-year average equivalent to at least a University of Toronto mid-B.
- Recommended background of courses in mathematics and statistics as outlined on the department’s website.

Program Requirements
All programs must be approved by the Associate Chair for Graduate Studies.

Full-Time Program
- Students within this option normally complete 4.0 full-course equivalents (FCEs), one of which may be an approved supervised reading project

Part-Time Program
- Students must satisfy the program requirements outlined for the full-time MSc.

Normal Program Length: 3 sessions full-time; 6 sessions part-time
Time Limit: 3 years

Doctor of Philosophy

Minimum Admission Requirements
- An appropriate master’s degree, with an average of at least B+ or demonstrated comparable research competence
- The Department of Statistics considers exceptional applicants directly from undergraduate studies. These applicants must meet additional course requirements, as indicated below for the direct-entry program.

Program Requirements
PhD Program
- 3.0 full-course equivalents (FCEs) including STA 2101H, STA 2111H, STA 2201H, STA 2211H, and STA 3000Y.
- Students are required to pass a comprehensive examination in theoretical statistics, probability, and applied statistics prior to embarking on a thesis.
- Submission of a suitable thesis.
- One-year residence period.
• Further details are available on the department’s website.

Direct-Entry Program
• Students admitted to the direct-entry program must normally adhere to the following:
  ○ complete STA 2101H, STA 2111H, STA 2201H, STA 2211H, STA 3000Y plus 2.0 FCEs
  ○ submit a suitable thesis
  ○ satisfy a two-year residency requirement.
• Students are required to a comprehensive examination in theoretical statistics, probability, and applied statistics prior to embarking on a thesis.
• Further details are found in the Graduate Information available on the department’s website.

Normal Program Length: 4 years full-time; 5 years direct-entry
Time Limit: 6 years full-time; 7 years direct-entry

Course List
The department offers a selection of courses each year from the following list with the possibility of additions. The core courses will be offered each year. Visit the department’s website for courses offered in the current academic year.

STA 1001H  Applied Regression Analysis
STA 1002H  Methods of Data Analysis
STA 1003H  Sample Survey Theory and its Application
STA 1004H  Introduction to Experimental Design
STA 1007H  Statistics for Life and Social Scientists
STA 1008H  Applications of Statistics
STA 2004H  Design of Experiments
STA 2005H  Applied Multivariate Analysis
STA 2006H  Applied Stochastic Processes
STA 2007H  Stochastic Calculus
STA 2008H  Mathematical Methods for Statistics
STA 2100H  Mathematical Methods for Statistics
STA 2101H  Methods of Applied Statistics I
STA 2102H  Computational Techniques in Statistics
STA 2103H  An Introduction to Bayesian Inference
STA 2104H  Statistical Methods for Machine Learning and Data Mining
STA 2105H  Nonparametric Methods of Statistics
STA 2111H  Probability Theory I
STA 2112H  Mathematical Statistics I
STA 2162H  Statistical Inference I
STA 2201H  Methods of Applied Statistics II
STA 2202H  Time Series Analysis
STA 2209H  Lifetime Data Modelling and Analysis
STA 2211H  Probability Theory II
STA 2212H  Mathematical Statistics II
STA 2262H  Statistical Inference II
STA 2270H  Introduction to Wavelet Methods in Statistics
STA 2342H  Multivariate Analysis I
STA 2442H  Multivariate Analysis II
STA 2453H  Statistical Consulting
STA 2500H  Loss Models
STA 2501H  Mathematical Risk Theory
STA 2502H  Stochastic Models in Investments
STA 2503H  Applied Probability for Mathematical Finance
STA 2505H  Credibility Theory and Simulation Methods
STA 2542H  Linear Models
STA 3000Y  Advanced Theory of Statistics
STA 3003H  Advanced Sample Survey Theory and Practice
STA 3047H  Stochastic Processes
STA 3077H  Research Topics in Probability Theory
STA 3101H  Neural Networks and Related Statistical Methods
STA 3102H  Stat Theory-Quality Control
STA 3103H  Bayesian/Likelihood Asymptotics
STA 3431H  Monte Carlo Methods
STA 4000H  Supervised Reading Project I
STA 4210H  Smoothing, Semi- and Non-parametric Regression
STA 4246H  Research Topics in Mathematical Finance
STA 4247H  Research Topics in Stochastic Processes
STA 4272H  Research Topics in Statistics
STA 4273H  Research Topics in Statistical Machine Learning
STA 4274H  Research Topics in Statistical Computation
STA 4275H  Research Topics in Likelihood Inference
STA 4276H  Research Topics in Monte Carlo Methods
STA 4312H  Bayesian Linear Models
STA 4315H  Computational Methods in Statistical Genetics
STA 4352H  Research Topics in Multivariate Statistics
STA 4360H  Theory of Pivotal and Direct Inference
STA 4364H  Conditional Inference: Sample Space Analysis
STA 4406H  Statistical Inference for Stochastic Processes
STA 4412H  Topics in Theoretical Statistics

Graduate Faculty
Full Members
Brenner, David - BSc, MSc, PhD
Broverman, Samuel - BSc, MSc, PhD
Brunner, Lawrence - BA, MA, PhD, DPhil
Corey, Paul - BSc, MA, PhD
Craiu, Virgil Radu - BS, MS, PhD
Escobar, Michael - BS, PhD
Evans, Michael - BSc, MSc, PhD
Feuerverger, Andrey - BSc, PhD
Jaimungal, Sebastion - BS, MS, PhD
Knight, Keith - PhD (Associate Chair, Graduate Studies)
Lin, Xiaodong - BSc, MSc, PhD
Lou, Wen-Yi Wendy - DPhil
McDunnoough, Philip - BSc, MSc, PhD
Neal, Radford - BSc, MSc, PhD
Quastel, Jeremy - BSc, MS, PhD
Reid, Nancy - BM, MSc, PhD
Degree and Diploma Programs by Graduate Unit

Rosenthal, Jeffrey - PhD
Stafford, James - BS, MS, PhD (Chair and Graduate Chair)
Sun, Lei - BS, PhD
Virag, Balint - BA, MA, PhD
Yao, Fang - BSc, MSc, DPhil

Members Emeriti
Andrews, David - BSc, MSc, PhD
Fraser, Donald AS - BA, MA, PhD, Fell Royal Society Canada
Guttman, Irwin - BSc, MA, PhD
Srivastava, Muni - MSc, PhD

Associate Members
Gibbs, Alison - BS, MS, PhD
Willmot, Gordon - BMath, MMath, PhD
Zhou, Zhou - MSc, DPhil
Theoretical Astrophysics

Faculty Affiliation
Arts and Science

Degree Programs Offered
The Canadian Institute for Theoretical Astrophysics (CITA) does not offer an independent graduate degree program. Students interested in theoretical astrophysics are encouraged to enrol in the graduate programs offered by cognate departments such as Astronomy and Astrophysics, Chemistry, and Physics.

All CITA faculty hold cross-appointments in one or more of these departments; students seeking research supervision by CITA faculty are welcome to enquire. CITA research fellows and visitors are also encouraged to work with graduate students.

Overview
Established in 1984, the Canadian Institute for Theoretical Astrophysics (CITA) is a national institute specializing in theoretical astrophysics. CITA is supported by the University of Toronto, the Natural Sciences and Engineering Research Council of Canada (NSERC), and the Canadian Institute for Advanced Research (CIFAR).

CITA owns an extensive and powerful network of workstations, including a 200-node, 1600-core Beowulf computing cluster. CITA also uses the 30,000 core computing cluster housed at the SciNet consortium at the University of Toronto.

The research activities at CITA span most of the areas of modern theoretical astrophysics, including accretion disks, active galactic nuclei, general relativity, and gravitational waves, cosmology and cosmological aspects of particle physics, the cosmic microwave background, gravitational lenses, dark matter, galaxy formation, galaxy structure and evolution, dynamics of stellar systems, physics and chemistry of the interstellar medium, star formation, stellar evolution, novae, supernovae, compact objects and gamma-ray bursts, nucleosynthesis, solar system formation and dynamics, and comets.

CITA has the support of over 50 faculty members from about 20 Canadian universities. CITA also maintains a rotating complement of more than 30 postdoctoral fellows and research associates, and hosts an active program of visitors from other universities. The theoretical interests of many CITA staff are complemented by observational research. CITA researchers have active observing programs at a wide variety of ground-based and satellite telescopes in many different wavelength bands.

Contact and Address
Web: www.cita.utoronto.ca
Email: office@cita.utoronto.ca
Telephone: (416) 978-6879
Fax: (416) 978-3921

Canadian Institute for Theoretical Astrophysics (CITA)
Institut Canadien d’Astrophysique Théorique (ICAT)
University of Toronto
Room 1403, McLennan Physical Laboratories
Toronto, Ontario M5S 3H8
Canada

Graduate Faculty
Full Members
Bond, J Richard - BSc, MS, PhD, Fell Royal Society
Canada, Fell Royal Society London
Martin, Peter - BSc, MSc, PhD
Murray, Norman - BSc, PhD (Director)
Pen, Ue-Li - BSc, PhD
Pfeiffer, Harald - PhD
Thompson, Christopher - BSc, PhD
Theory and Policy Studies in Education

Faculty Affiliation
Ontario Institute for Studies in Education

Degree Programs Offered
Educational Administration – MA, MEd, EdD, PhD
Higher Education – MA, MEd, EdD, PhD
History and Philosophy of Education – MA, MEd

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:

1. Comparative, International and Development Education
   - Educational Administration, MA, MEd, EdD, PhD
   - Higher Education, MA, MEd, EdD, PhD
   - History and Philosophy of Education, MA, MEd

2. Educational Policy
   - Educational Administration, MA, MEd, EdD, PhD
   - Higher Education, MA, MEd, EdD, PhD
   - History and Philosophy of Education, MA, MEd

3. Ethnic and Pluralism Studies
   - Educational Administration, MA, MEd, EdD, PhD
   - History and Philosophy of Education, MA, MEd

4. Sexual Diversity Studies
   - Educational Administration, MA, MEd, EdD, PhD
   - Higher Education, MA, MEd, EdD, PhD
   - History and Philosophy of Education, MA, MEd

5. Women and Gender Studies
   - Educational Administration, MA, MEd, EdD, PhD
   - Higher Education, MA, MEd, EdD, PhD
   - History and Philosophy of Education, MA, MEd

Overview
The Department of Theory and Policy Studies in Education (TPS) consists of three graduate programs, one representing two discipline-based fields (History and Philosophy of Education) and two representing the application of cognate scholarship to domains of practice (Educational Administration and Higher Education). All programs offer courses of study leading to Master of Arts and Master of Education degrees; Educational Administration and Higher Education also offer courses of study leading to Doctor of Education and Doctor of Philosophy degrees. Applications must be made to one of the three specializations: Educational Administration, Higher Education, History and Philosophy of Education.

For information about application procedures and forms, contact the OISE Registrar’s Office by emailing gradstudy.oise@utoronto.ca.

For general admission and program requirements, consult the OISE/UT Graduate Studies in Education Bulletin section titled “Minimum Admission, Program and Degree Requirements”. For complete information on TPS degree programs, consult the section of the Bulletin dealing with the Department of Theory and Policy Studies in Education.

Master of Education Options. At OISE/UT there are four options for completing the MEd degree:

Option I: Coursework and comprehensive option: 5.0 full-course equivalents (FCEs) plus a comprehensive examination/requirement.
Option II: Research project option: 4.0 FCEs plus a research project or major research paper. Higher Education also requires a comprehensive examination.
Option III: Thesis option: 3.0 FCEs plus a thesis.
Option IV: Coursework-only option: 5.0 FCEs.

Information about available options in each graduate program follow.

Members of the department also participate in delivering the initial teacher education program (BEd), particularly the social foundations courses and courses rooted in educational history, philosophy, administration, and policy.

Contact and Address
Web: www.oise.utoronto.ca/tps
Email: tps.oise@utoronto.ca
Telephone: (416) 978-1150
Fax: (416) 926-4741

Department of Theory and Policy Studies in Education
The Ontario Institute for Studies in Education of the University of Toronto (OISE/UT)
6th Floor, 252 Bloor Street West
Toronto, Ontario MSS 1V6
Canada

Degree Programs

Educational Administration

Master of Arts
The MA program in Educational Administration fosters the study of problems in the administration and leadership of educational programs. It will best serve students who have a commitment to scholarship and research as a means of deepening their understanding of administrative action in schools or in other educational and service institutions. While experience in teaching and administration is not an essential
prerequisite for admission, such experience provides a desirable background. The MA is available through both full-time and part-time studies.

Minimum Admission Requirements

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- An appropriate bachelor’s degree from a recognized university in a relevant discipline or professional program, with high academic standing (equivalent to at least a University of Toronto B+ in the final year).

Program Requirements

- 4.0 full-course equivalents (FCEs) plus a thesis. Additional courses may be required of some applicants.

Normal Program Length: 5 sessions (2 years) full-time; 12 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Master of Education

The MEd program in Educational Administration is designed primarily for students who are interested in learning the nature and practice of leadership and policy, especially with respect to social diversity and change. The MEd degree may be pursued either part-time or full-time.

Minimum Admission Requirements

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- An appropriate bachelor’s degree from a recognized university in a relevant discipline with high academic standing (equivalent to at least a University of Toronto mid-B or better in the final year), preferably with a concentration and focus in an area relevant to the type of educational administration the applicant wishes to enter.
- An interest in the study and practice of administration.
- Academic qualifications beyond the first degree.
- Two letters of reference. Whenever possible, one should be written by an educational administrator for whom the applicant has worked; the second by a professional colleague.

Program Requirements

- There are three options available to all students within the MEd program in Educational Administration.
- Option II comprises:
  - 1.5 required FCEs: TPS 1003H Conducting Research in Educational Administration; TPS 1040H Educational Administration I: Introduction to Educational Administration: Policy, Leadership, and Change; TPS 1041H Educational Administration II: Social and Policy Contexts of Schooling. TPS 1040H and TPS 1041H should be taken first; course TPS 1003H should be taken towards the end of the program.
  - 2.5 other FCEs, of which at least 1.0 FCE must be in Educational Administration; TPS 1004H Research Literacy in Educational Administration is strongly recommended and should be taken at the beginning of the program. Students may choose to focus on one of the four program strands: policy, leadership, change, or social diversity.
  - A Major Research Paper (MRP) to be carried out under the guidance of a faculty member.
- Option III comprises:
  - 1.5 required FCEs: TPS 1003H Conducting Research in Educational Administration; TPS 1040H Educational Administration I: Introduction to Educational Administration: Policy, Leadership, and Change; TPS 1041H Educational Administration II: Social and Policy Contexts of Schooling. TPS 1040H and TPS 1041H should be taken first; course TPS 1003H should be taken towards the end of the program.
  - 1.5 other FCEs, of which at least one must be in Educational Administration; TPS 1004H Research Literacy in Educational Administration is strongly recommended and should be taken at the beginning of the program;
  - A comprehensive thesis to be developed under the guidance of a faculty member.
- Option IV comprises:
  - 2.0 required FCEs: TPS 1004H Research Literacy in Educational Administration; TPS 1040H Educational Administration I: Introduction to Educational Administration: Policy, Leadership, and Change; TPS 1041H Educational Administration II: Social and Policy Contexts of Schooling; TPS 1050H Themes and Issues in Policy, Leadership, Change, and Diversity. TPS 1004H, TPS 1040H, and TPS 1041H should preferably be the first courses taken in the student’s program of study. TPS 1050H should normally be taken as the final course in the student’s program.
  - 3.0 other FCEs, of which at least 1.0 FCE must be in Educational Administration. Students may choose to focus on one of the four research areas: policy, leadership, change, and social diversity.
Normal Program Length: 5 sessions (2 years) full-time; 10 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Education
The EdD program in Educational Administration is intended to develop highly competent leaders for administrative positions in school systems, colleges, universities, and other educational institutions. The program is specifically designed to help working professional educators develop the intellectual and research skills to refine their practice as leaders in school systems and in higher education.

Minimum Admission Requirements
- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- Master’s degree with specialization in Educational Administration or an equivalent degree with a B+ average. Additional coursework may be required from those who do not have a background in administrative studies. A qualifying research paper (QRP) will be required.
- The applicant must be in a successful leadership position in education, or must have held a leadership position successfully, or must demonstrate potential for leadership.
- There are two EdD streams: the regular and the cohort-based streams.
  - regular EdD stream: regular stream students are accepted every year and can register on a full-time or part-time basis.
  - cohort-based stream: Cohorts are accepted every three years. Students move through the program as a cohort or unit.

Program Requirements
Regular EdD Stream
- 4.0 core full-course equivalents (FCEs) as follows:
  - TPS 3040H
  - TPS 3041H
  - TPS 3025H
  - TPS 3042H
  - TPS 3047H
  - TPS 3044H Internship/Practicum in Educational Administration
  - 1.0 other FCE of which 0.5 FCE which must be at the 3000 level
- Successful completion of a portfolio that emphasizes reflective practice
- A thesis proposal hearing
- A doctoral thesis

Cohort-Based Stream
- 4.0 core full-course equivalents (FCEs) as follows:
  - TPS 3040H
  - TPS 3041H
  - TPS 3025H
  - TPS 3042H
  - TPS 3047H
  - TPS 3044H Internship/Practicum in Educational Administration
- 1.0 other FCE of which 0.5 FCE which must be at the 3000 level
- Successful completion of a portfolio that emphasizes reflective practice
- A thesis proposal hearing
- A doctoral thesis

Normal Program Length: 4 years full-time; 6 years part-time
Time Limit: 6 years full-time; 8 years part-time

Doctor of Philosophy
The PhD program in Educational Administration fosters the study of problems in the administration and leadership of educational programs. It best serves students who are committed to scholarship and research as a means for deepening their understanding of administrative action in schools or in other educational and service institutions. While experience in teaching and administration is not an essential prerequisite for admission, such experience provides a desirable background.

The PhD program may be taken on either a full-time or flexible-time basis. To be admitted on a flexible-time basis, applicants should be active professionals who demonstrate connections between their professional work and their proposed course program, and/or between their professional work and their proposed research.

Minimum Admission Requirements
- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- An appropriate master’s degree, with standing equivalent to a University of Toronto A-. Students who have completed an appropriate master’s degree that did not include a thesis or research project are required to complete a Qualifying Research Paper to a standard satisfactory to the PhD Admissions Committee. Before undertaking a qualifying research project, students should first consult the Program Coordinator.
## Program Requirements

- Minimum 3.0 full-course equivalents (FCEs), of which 2.0 FCEs normally must be TPS 3040H, TPS 3042H, TPS 3043H, and one elective advanced-level (3000) course in Educational Administration.
- Students who have already attained an acceptable level of competence in research methodology may be authorized to choose a course in a different area of specialization.
- PhD students are required to pass a comprehensive examination and a thesis proposal hearing.
- A thesis is required.

**Normal Program Length:** 4 years full-time; 6 years flexible-time

**Time Limit:** 6 years full-time; 6 years flexible-time

## Course List

Not all courses are offered every year. Please consult OISE/UT’s Graduate Studies Course Schedule which lists the courses the department will offer this year as well as those offered by other departments that may be taken for credit in your program.

Some sections of existing courses are offered off campus and by computer conferencing in order to make them available to students in localities far from Toronto.

### Educational Administration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS 1003H</td>
<td>Conducting Research in Educational Administration</td>
</tr>
<tr>
<td>TPS 1004H</td>
<td>Research Literacy in Educational Administration</td>
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<tr>
<td>TPS 1005H</td>
<td>The Computer in Educational Administration</td>
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<tr>
<td>TPS 1012H</td>
<td>Organizational Culture and Decision Making</td>
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<tr>
<td>TPS 1016H</td>
<td>School Program Development and Implementation</td>
</tr>
<tr>
<td>TPS 1018H</td>
<td>Political Skill in the Education Arena</td>
</tr>
<tr>
<td>TPS 1019H</td>
<td>Diversity and the Ethics of Educational Administration</td>
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<tr>
<td>TPS 1020H</td>
<td>Teachers and Educational Change</td>
</tr>
<tr>
<td>TPS 1024H</td>
<td>Critical Conversations: Philosophy, Educational Administration, and Educational Policy Studies</td>
</tr>
<tr>
<td>TPS 1025H</td>
<td>School Effectiveness and School Improvement</td>
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<tr>
<td>TPS 1026H</td>
<td>Evaluation of Professional Personnel in Education</td>
</tr>
<tr>
<td>TPS 1027H</td>
<td>The Search for Educational Quality and Excellence in a Global Economy</td>
</tr>
<tr>
<td>TPS 1028H</td>
<td>Policy Delivery and Schools</td>
</tr>
<tr>
<td>TPS 1029H</td>
<td>Special Applications of the Administrative Process</td>
</tr>
<tr>
<td>TPS 1030H</td>
<td>The Legal Context of Education</td>
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<tr>
<td>TPS 1036H</td>
<td>Educational Finance and Economics (Students who have taken TPS 1017H, TPS 1841H are not eligible to take TPS 2006H)</td>
</tr>
<tr>
<td>TPS 1040H</td>
<td>Educational Administration I: Introduction to Educational Administration: Policy, Leadership and Change</td>
</tr>
<tr>
<td>TPS 1041H</td>
<td>Educational Administration II: Social and Policy Context of Schooling</td>
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<tr>
<td>TPS 1042H</td>
<td>Educational Leadership and Cultural Diversity</td>
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<tr>
<td>TPS 1045H</td>
<td>Language Policy Across the Curriculum</td>
</tr>
<tr>
<td>TPS 1047H</td>
<td>Managing Changes in Classroom Practice</td>
</tr>
<tr>
<td>TPS 1048H</td>
<td>Educational Leadership and School Improvement</td>
</tr>
<tr>
<td>TPS 1050H</td>
<td>Themes and Issues in Policy, Leadership, Change, and Diversity</td>
</tr>
<tr>
<td>TPS 1052H</td>
<td>Individual Reading and Research in Educational Administration: Master’s Level</td>
</tr>
<tr>
<td>TPS 1060H</td>
<td>School Leadership Seminar 1</td>
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<tr>
<td>TPS 1061H</td>
<td>School Leadership Seminar 2</td>
</tr>
<tr>
<td>TPS 2006H</td>
<td>Educational Finance and Economics (Students who have taken TPS 1017H, TPS 1841H are not eligible to take TPS 2006H)</td>
</tr>
<tr>
<td>TPS 3022H</td>
<td>The Investigation of School Culture: An Examination of the Daily Life of Schools</td>
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<tr>
<td>TPS 3024H</td>
<td>Field Studies in Educational Leadership</td>
</tr>
<tr>
<td>TPS 3025H</td>
<td>Personal and Professional Values of Educational Leadership</td>
</tr>
<tr>
<td>TPS 3028H</td>
<td>Project Development Studies</td>
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<tr>
<td>TPS 3029H</td>
<td>Special Topics in Educational Administration</td>
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<tr>
<td>TPS 3030H</td>
<td>Advanced Legal Issues in Education</td>
</tr>
<tr>
<td>TPS 3037H</td>
<td>Strategic Planning in Educational Organizations</td>
</tr>
<tr>
<td>TPS 3040H</td>
<td>Administrative Theory and Educational Problems I: People and Power in Organizations</td>
</tr>
<tr>
<td>TPS 3041H</td>
<td>Administrative Theory and Educational Problems II: Doctoral Seminar on Policy Issues in Education</td>
</tr>
<tr>
<td>TPS 3042H</td>
<td>Field Research in Educational Administration</td>
</tr>
<tr>
<td>TPS 3043H</td>
<td>Survey Research in Educational Administration</td>
</tr>
<tr>
<td>TPS 3044H</td>
<td>Internship/Practicum in Educational Administration</td>
</tr>
<tr>
<td>TPS 3045H</td>
<td>Educational Policy and Program Evaluation</td>
</tr>
<tr>
<td>TPS 3046H</td>
<td>Gender Issues in Educational Leadership</td>
</tr>
<tr>
<td>TPS 3047H</td>
<td>Research Seminar on Leadership and Educational Change</td>
</tr>
<tr>
<td>TPS 3052H</td>
<td>Individual Reading and Research in Educational Administration: Doctoral Level</td>
</tr>
<tr>
<td>TPS 3055H</td>
<td>Democratic Values, Student Engagement and Democratic Leadership</td>
</tr>
<tr>
<td>TPS 3145H</td>
<td>Advanced Issues in Educational Policy Analysis and Program Evaluation</td>
</tr>
<tr>
<td>JCT 2000H</td>
<td>Proseminar in Educational Evaluation, Measurement and Policy Analysis</td>
</tr>
<tr>
<td>JCT 2001H</td>
<td>Using Classroom Assessment to Enhance Student Learning</td>
</tr>
</tbody>
</table>
Higher Education

Master of Arts

Minimum Admission Requirements

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- An appropriate bachelor’s degree from a recognized university with high academic standing (equivalent to at least a University of Toronto mid-B in the final year).

Program Requirements

- 4.0 full-course equivalents (FCEs). The number of FCEs may be reduced to 3.0 for students with prior undergraduate or graduate degrees that are relevant to the study of Higher Education. Additional courses may be required of some applicants.
- All students are required to complete TPS 1803H *Recurring Issues in Postsecondary Education* and a half-course in Research Methods.
- Thesis.

Normal Program Length: 5 sessions full-time; 12 sessions part-time
Time Limit: 3 years full-time; 6 years part-time

Doctor of Education

Minimum Admission Requirements

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- Relevant and acceptable MEd or MA. In individual cases, students with a highly relevant master’s degree or other equivalent graduate degree may be admitted, but additional courses in Higher Education will be required.

Program Requirements

- Minimum of 4.0 full-course equivalents (FCEs) including:
  - TPS 1803H *Recurring Issues in Postsecondary Education* (0.5 FCE)
  - at least 1.0 other FCE in Higher Education
  - 0.5 FCE in research methodology approved by the faculty advisor
  - 1.0 FCE selected either in Higher Education or in another graduate program at OISE, or, with the approval of the faculty advisor, in another graduate department at the University of Toronto
  - Supervised applied research practicum (equivalent to 0.5 FCE)
  - Collaborative pro-seminar (0.5 FCE)
- Doctoral Comprehensive Examination.
- Thesis reporting the results of original research on an applied topic in postsecondary education.

Normal Program Length: 4 years full-time; 6 years part-time
Time Limit: 6 years full-time; 8 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- Relevant and acceptable MEd or MA. In individual cases, students with a highly relevant master’s degree or other equivalent graduate degree may be admitted, but additional courses in Higher Education will be required.

Supervised applied research practicum (equivalent to 0.5 FCE)
Collaborative pro-seminar (0.5 FCE)
Doctoral Comprehensive Examination.
Thesis reporting the results of original research on an applied topic in postsecondary education.

Normal Program Length: 4 years full-time; 6 years part-time
Time Limit: 6 years full-time; 8 years part-time

Master of Education

Minimum Admission Requirements

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.

Program Requirements

- Students in Higher Education pursue the MEd Option IV degree program: 5.0 full-course equivalents (FCEs).
- All students are required to complete TPS 1803H *Recurring Issues in Postsecondary Education* and a half-course in Research Methods.
- Health Professional Education. Students in the health professional education specialization normally register in the MEd Option IV program: 5.0 FCEs. The MEd Option II program requires 4.0 FCEs plus a master’s research project/paper. Both options, if pursued on a full-time basis, cannot be completed in less than 12 months. Additional information on the health professional education specialization may be obtained from Professor Linda Muzzin.
Program Requirements

- Minimum 3.0 full-course equivalents (FCEs) including:
  - TPS 1803H Recurring Issues in Postsecondary Education (0.5 FCE)
  - at least 1.0 other FCE in Higher Education
  - 0.5 FCE in research methodology approved by the faculty advisor
  - 1.0 FCE selected either in Higher Education or in another graduate program at OISE, or, with the approval of the faculty advisor, in another graduate department at the University of Toronto

- Doctoral Comprehensive Examination.
- Thesis reporting the results of original research in postsecondary education.

Normal Program Length: 4 years full-time; 6 years flexible-time

Time Limit: 6 years full-time; 6 years flexible-time

Course List

Not all courses are offered every year. Please consult OISE’s Graduate Studies Course Schedule which lists the courses the department will offer this year as well as those offered by other departments that may be taken for credit in your program.

Some sections of existing courses are offered off campus and by computer conferencing in order to make them available to students in localities far from Toronto.

Higher Education

TPS 1801H The History of Higher Education in Canada: An Overview
TPS 1802Y Theory in Higher Education
TPS 1803H Recurring Issues in Postsecondary Education
TPS 1804H Issues in Medical/Health Professional Education
TPS 1805H The Community College
TPS 1806H Systems of Higher Education
TPS 1807H Strategic and Long-Range Planning for Postsecondary Systems
TPS 1808H Research in Health Professional Education
TPS 1809H Administration of Colleges and Universities
TPS 1810H Evaluation of Knowledge, Clinical Competence, and Professional Behaviour in the Health Professions
TPS 1811H Institutional Research and Planning
TPS 1812H Education and the Professions
TPS 1813H Issues in Cognitive and Educational Psychology: Implications for Health Professional Education
TPS 1814H Curriculum in Institutions of Higher Education
TPS 1815H Teaching in Institutions of Higher Education
TPS 1817H Nurturing Professional Education

TPS 1818H Educational Development: Examination of Strategies for Improving Teaching and Learning in Postsecondary Institutions
TPS 1819H Governance in Higher Education
TPS 1820H Special Topics in Higher Education: Master’s Level
TPS 1821H Institutional Differentiation in Postsecondary Education
TPS 1822H The Idea of the University and the College
TPS 1824H The Planning of Facilities in Higher Education
TPS 1825H Comparative Education: Theory and Methodology
TPS 1826H Comparative Higher Education
TPS 1827H The Politics of Higher Education
TPS 1828H Evaluation in Higher Education
TPS 1832H East Asian Higher Education
TPS 1833H Academic Capitalism: Higher Education with a Corporate Agenda
TPS 1834H Qualitative Research in Higher Education
TPS 1836H Critical Analysis of Research in Higher Education
TPS 1837H Environmental Health, Transformative Higher Education and Policy Change: Education Toward Social and Ecosystem Healing
TPS 1838H Continuing Education
TPS 1839H Administration of Technology in Higher Education
TPS 1842H Higher Education and the Labour Market
TPS 1843H Higher Education and the Law
TPS 1844H The Student Experience in Postsecondary Education
TPS 1845H Applications in the Student Experience
TPS 1846H Internationalization of Higher Education in a Comparative Perspective
TPS 1848H Innovative Curricula in Higher Education and the Professions
TPS 1852H Individual Reading and Research in Higher Education: Master’s Level
TPS 2006H Educational Finance and Economics (Students who have taken TPS 1017H, TPS 1841H are not eligible to take TPS 2006H)
TPS 3810H International Academic Relations
TPS 3820H Special Topics in Higher Education: Doctoral Level
TPS 3852H Individual Reading and Research in Higher Education: Doctoral Level

History and Philosophy of Education

Each degree in the History and Philosophy of Education program is offered in two fields:

- History of Education
- Philosophy of Education
Master of Arts

Minimum Admission Requirements

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- An appropriate bachelor’s degree from a recognized university, with high academic standing.

A history major is required for applicants to the History of Education field; a philosophy major is required for applicants to the Philosophy of Education field.

Program Requirements

Field History of Education

- A total of 3.0 FCEs, including:
  - TPS 1419H Historiography and the History of Education (0.5 FCE) and TPS 1440H An Introduction to Philosophy of Education (0.5 FCE).
  - Normally, 1.5 of the remaining 2.0 FCEs must be selected from the History of Education course menu. (See the OISE/UT Graduate Studies in Education Bulletin for details.) In cases where a student has already taken a course deemed equivalent to TPS 1440H, another philosophy course may be substituted. In consultation with the faculty advisor, this course should be chosen to complement the student’s primary focus in history.

Field Philosophy of Education

- A total of 3.0 FCEs, including:
  - Completion of TPS 1440H An Introduction to Philosophy of Education (0.5 FCE), unless a course deemed equivalent has already been taken.
  - One course in history, normally TPS 1419H Historiography and the History of Education (0.5 FCE). In cases where a student has already taken a course deemed equivalent to TPS 1419H, another history course may be substituted. In consultation with the faculty advisor, this course should be chosen to complement the student’s primary focus in philosophy.
  - Normally, 1.5 of the remaining 2.0 FCEs must be selected from the Philosophy of Education course menu. (See the OISE/UT Graduate Studies in Education Bulletin for details.) Upon approval, courses from other departments, including the Graduate Department of Philosophy, may be substituted for Philosophy of Education courses.
  - Applicants with undergraduate majors in related social science and humanities disciplines are normally required to take some additional courses.

Normal Program Length: 3 sessions full-time; 12 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Master of Education

Minimum Admission Requirements

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.

Program Requirements

Field History of Education

- The MEd degree in the History of Education field may be pursued under either Option II (4.0 full-course equivalents [FCEs] plus a major research project/paper) or Option IV (5.0 FCEs).
  - Students enrolled in Option II are expected to complete at least 2.0 FCEs from the History of Education course menu.
  - Students enrolled in Option IV are expected to complete at least 2.5 FCEs from the History of Education course menu. (See the OISE/UT Graduate Studies in Education Bulletin for a list of History of Education courses.)
- Completion of TPS 1460H History and Educational Research and TPS 1440H An Introduction to Philosophy of Education is mandatory in both options. In cases where a student has already taken a course deemed equivalent to TPS 1440H, another philosophy course may be substituted. In consultation with the faculty advisor, this course should be chosen to complement the student’s primary focus in history.

Field Philosophy of Education

- The MEd degree in the History and Philosophy of Education Program, Philosophy of Education field may be pursued under either Option II (4.0 full-course equivalents [FCEs] plus a major research project/paper) or Option IV (5.0 FCEs).
  - Students enrolled in Option II are expected to complete at least 2.0 FCEs from the Philosophy of Education course menu.
  - Students enrolled in Option IV are expected to complete at least 2.5 FCEs from the Philosophy of Education course menu. (See the OISE/UT Graduate Studies in Education Bulletin for a list of Philosophy of Education courses.)
- Completion of TPS 1440H An Introduction to Philosophy of Education is mandatory in both options (unless a course deemed equivalent has already been taken).
Field of Study: History and Philosophy of Education

Minimum Admission Requirements

- Applicants with specializations in their master’s degree programs other than Philosophy of Education are required to take additional courses in philosophy. In addition, for both options one course in history is also mandatory, normally TPS 1419H "Historiography and the History of Education." In cases where a student has already taken a course deemed equivalent to TPS 1419H, another history course may be substituted. In consultation with the faculty advisor, the substituted course should be chosen to complement the student’s primary focus in philosophy.

Normal Program Length: 5 sessions full-time; 10 sessions part-time

Time Limit: 3 years full-time; 6 years part-time

Doctor of Education

Admissions have ceased for the EdD program in the History and Philosophy of Education.

The History and Philosophy of Education Program is currently not accepting any new PhD or EdD admissions in the History and Philosophy Program for 2011/2012. However, PhD, EdD, and flexible-time PhD applicants who are interested in studying with history and philosophy faculty members should contact the Program Coordinator, Dr. Ruth Sandwell, to discuss 2011/2012 application to the Department of Theory and Policy Studies. The History and Philosophy of Education Program continues to accept all applications to MA and MEd degree programs. For further information please email the Program Coordinator, Dr. Ruth Sandwell (ruth.sandwell@utoronto.ca).

The EdD degree is designed for career educators who wish to engage in the in-depth study of a problem or topic related to professional practice.

Minimum Admission Requirements

The department welcomes applicants with diverse but relevant backgrounds.

Students are admitted under the General Regulations of the School of Graduate Studies.

Program Requirements

Field History of Education

- Students who have completed a master’s degree (MEd or MA) in the History and Philosophy of Education Program, History of Education field must complete 4.0 full-course equivalents (FCEs), a year of full-time study on campus, and a thesis. Preferably, the year of full-time study should occur late in the degree program and should be devoted primarily to thesis research and writing.

- Students who have not completed a master’s (MEd or MA) degree in the History and Philosophy of Education Program, History of Education field must complete TPS 1440H "An Introduction to the Philosophy of Education" as part of their required 4.0 FCEs. In cases where a student has already taken a course deemed equivalent to TPS 1440H, another philosophy course may be substituted. In consultation with the faculty advisor, this course should be chosen to complement the student’s primary focus in history.

- The core program includes two mandatory EdD seminars (TPS 3490H EdD Seminar in the History of Education I and TPS 3491H EdD Seminar in the History of Education II), normally taken during the year of full-time study. Course TPS 1419H Historiography and the History of Education is a requirement for students in this program. The remaining courses are selected by the student in consultation with the faculty advisor and may be taken before or after the year of required full-time study. Students are strongly encouraged, though not required, to take at least 1.0 FCE before the year of full-time study.

- All EdD students are required to take a comprehensive examination.

Field Philosophy of Education

- Applicants with specializations in their master’s degree programs other than Philosophy of Education are required to take additional courses either as prerequisites to admission or as part of their program.

- Applicants without a master’s thesis or equivalent must submit a Qualifying Research Paper, which must be approved by two faculty members prior to registration in the program.

- Students who have completed a master’s degree (MEd or MA) in the History and Philosophy of Education Program, Philosophy of Education field must complete 4.0 FCEs (some or all of which may be taken part-time), a year of required full-time study on campus, and a thesis. Preferably, the year of full-time study should occur late in the degree program and should be devoted primarily to thesis research and writing.

- All EdD students are required to take a comprehensive examination.

- Core program includes two mandatory EdD seminars (TPS 3480H EdD Seminar in the Philosophy of Education I and TPS 3481H EdD Seminar in the Philosophy of Education II), normally taken during the year of required full-time study, and course TPS 1440H "An Introduction to Philosophy of Education," unless it, or an equivalent, has been taken previously.

- Students who have not completed a master’s (MEd or MA) degree in the History and Philosophy of Education Program, Philosophy of Education field must complete TPS 1419H Historiography and the History of Education as part of their required 4.0 FCEs. In cases where a student has already taken a course deemed equivalent to TPS 1419H, another history course may be substituted. In consultation with the faculty advisor, this course should be
chosen to complement the student’s primary focus in philosophy.

- A minimum of 2.5 FCEs should normally be taken from the Philosophy of Education course menu, selected in consultation with the faculty advisor. (See the OISE/UT Graduate Studies in Education Bulletin for a list of Philosophy of Education courses.) Courses from other departments, including the Graduate Department of Philosophy, may, upon approval, be substituted for Philosophy of Education courses. Students are strongly encouraged, though not required, to take at least 1.0 FCE before the year of required full-time study.

**Normal Program Length:** 4 years full-time; 6 years part-time  
**Time Limit:** 6 years full-time; 8 years part-time

**Doctor of Philosophy**

**Admissions have ceased for the PhD program in the History and Philosophy of Education.**  
The History and Philosophy of Education Program is currently not accepting any new PhD or EdD admissions in the History and Philosophy Program for 2011/2012. However, PhD, EdD, and flexible-time PhD applicants who are interested in studying with history and philosophy faculty members should contact the Program Coordinator, Dr. Ruth Sandwell, to discuss 2011/2012 application to the Department of Theory and Policy Studies. The History and Philosophy of Education Program continues to accept all applications to MA and MEd degree programs. For further information please email the Program Coordinator, Dr. Ruth Sandwell (ruth.sandwell@utoronto.ca).

**Minimum Admission Requirements**

- The department welcomes applicants with diverse but relevant backgrounds.
- Students are admitted under the General Regulations of the School of Graduate Studies.
- Applicants to the PhD program must have an appropriate master’s degree in history and philosophy of education, or its equivalent, with high academic standing from a recognized university. Work at the master’s level must include a thesis or equivalent major research paper and must be in the same subject area as the intended field of PhD study.

**Program Requirements**

**Field History of Education**

- 3.0 full-course equivalents (FCEs) plus a thesis.
- If the master’s degree did not include a thesis (or equivalent), a Qualifying Research Paper must be submitted and approved by two faculty members before registration in the degree program.

- Applicants who do not hold a University of Toronto MA degree in the History and Philosophy of Education Program, History of Education field or its equivalent will be required to establish equivalency with the OISE/UT master’s program. Usually this entails completion of TPS 1419H Historiography and the History of Education and TPS 1440H An Introduction to the Philosophy of Education within the minimum 3.0-FCE requirement for the PhD In cases where a student has already taken a course deemed equivalent to TPS 1440H, another philosophy course may be substituted. In consultation with the faculty advisor, this course should be chosen to complement the student’s primary focus in history.

- All PhD students are required to write a comprehensive examination.

**Field Philosophy of Education**

- 3.0 full-course equivalents (FCEs) plus a thesis.
- If the master’s degree did not include a thesis (or equivalent), a Qualifying Research Paper must be submitted and approved by two faculty members before registration in the degree program.

- Applicants who do not hold a University of Toronto master’s degree in the History and Philosophy of Education Program, Philosophy of Education field or its equivalent will be required to establish equivalency with the OISE/UT master’s program. Usually this entails completion of TPS 1440H An Introduction to Philosophy of Education (unless a course deemed equivalent has already been taken previously) and TPS 1419H Historiography and the History of Education within the minimum 3.0-FCE requirement for the PhD In cases where a student has already taken a course deemed equivalent to TPS 1419H, another history course may be substituted. In consultation with the faculty advisor, this course should be chosen to complement the students’ primary focus in philosophy.

- All students must complete at least 2.0 FCEs from the Philosophy of Education course menu, including TPS 1440H. (See the OISE/UT Graduate Studies in Education Bulletin for a list of Philosophy of Education courses.) Courses should be selected in consultation with the faculty advisor. Courses from other departments, including the Graduate Department of Philosophy, may, upon approval, be substituted for Philosophy of Education courses.

- All PhD students are required to write a comprehensive examination.

**Course List**

Not all courses are offered every year. Please consult OISE/UT’s Graduate Studies Course Schedule which lists the courses the department will offer this
### History of Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>TPS 1400H</td>
<td>The Origins of Modern Schooling I: Problems in Education Before the Industrial Revolution</td>
<td>Year as well as those offered by other departments that may be taken for credit in your program. Some sections of existing courses are offered off campus and by computer conferencing in order to make them available to students in localities far from Toronto.</td>
</tr>
<tr>
<td>TPS 1401H</td>
<td>The Origins of Modern Schooling II: Problems in Nineteenth- and Twentieth-Century Educational History, Focus on Canada and the U.S.A.</td>
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<td>TPS 1402H</td>
<td>History of Modern European Education</td>
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<td>TPS 1403H</td>
<td>History of Education in Canada</td>
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<td>TPS 1404H</td>
<td>History of Rural Education in Canada</td>
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<td>TPS 1405H</td>
<td>History of Education and Society: Selected Topics</td>
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<td>TPS 1406H</td>
<td>Sexuality and the History of Education</td>
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<td>TPS 1410H</td>
<td>Schooling in the Movies: Education as Reflected in Hollywood Films</td>
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<td>TPS 1416H</td>
<td>History of Modern European Education</td>
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<td>TPS 1419H</td>
<td>Historiography and the History of Education</td>
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<td>TPS 1420H</td>
<td>European Popular Culture and the Social History of Education I</td>
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<td>TPS 1421H</td>
<td>Education and Family Life in the Modern World I</td>
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<td>TPS 1423H</td>
<td>The History of the Family in Canada</td>
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<td>TPS 1424H</td>
<td>Religion, Ideology, and Social Movements in the History of North American Education</td>
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<td>TPS 1426H</td>
<td>The History of Gender and Education in Canada</td>
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<td>TPS 1427H</td>
<td>History and Commemoration: Canada and Beyond, 1800s-1900s</td>
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<td>TPS 1428H</td>
<td>Immigration and the History of Canadian Education</td>
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<td>TPS 1429H</td>
<td>Ethnicity and the History of Canadian Education</td>
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<td>TPS 1430H</td>
<td>Gendered Colonialisms, Imperialisms and Nationalisms in History</td>
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<td>TPS 1448H</td>
<td>Popular Culture and the Social History of Education II</td>
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<td>TPS 1452H</td>
<td>Individual Reading and Research in the History of Education: Master's Level</td>
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<td>TPS 1454H</td>
<td>The Battle Over History Education in Canada</td>
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<td>TPS 1460H</td>
<td>History and Educational Research</td>
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<td>TPS 1461H</td>
<td>Special Topics in History of Education</td>
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<td>TPS 3428H</td>
<td>Minority Concerns and Education in Canadian History: Selected Topics</td>
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<td>TPS 3452H</td>
<td>Individual Reading and Research in the History of Education: Doctoral Level</td>
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<td>TPS 3461H</td>
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<td>TPS 3490H</td>
<td>EdD Seminar in the History of Education I</td>
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<td>TPS 3491H</td>
<td>EdD Seminar in the History of Education II</td>
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### Philosophy of Education

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>TPS 1432H</td>
<td>Knowledge, Mind, and Human Beings</td>
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<td>TPS 1433H</td>
<td>Freedom and Authority in Education</td>
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<td>TPS 1434H</td>
<td>Human Rights, Politics, and Education</td>
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<td>TPS 1435H</td>
<td>Democracy and Education</td>
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<td>TPS 1436H</td>
<td>Modernity and Postmodernity in Social Thought and Education</td>
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<td>TPS 1438H</td>
<td>Democratic Approaches to Pedagogy</td>
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<td>TPS 1439H</td>
<td>Gender, Ethics, and Education: Philosophical Issues</td>
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<td>TPS 1440H</td>
<td>An Introduction to Philosophy of Education</td>
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<td>TPS 1441H</td>
<td>Philosophical Dimensions of Moral Education</td>
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<td>TPS 1442H</td>
<td>Cultural and Racial Difference in Education: Philosophical Perspectives</td>
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<td>TPS 1443H</td>
<td>‘Troubling’ Knowledges in Education: the Politics of Claiming Truths</td>
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<td>Human Rights and Education in an International Context</td>
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<td>TPS 1446H</td>
<td>The Teacher as Philosopher</td>
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<td>TPS 1447H</td>
<td>Technology in Education: Philosophical Issues</td>
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<td>TPS 1449H</td>
<td>The Theory of Law and the Teaching of Law in the Schools</td>
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<td>TPS 1450H</td>
<td>Philosophy of Science and Science Education</td>
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<td>Individual Reading and Research in the Philosophy of Education: Master's Level</td>
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<td>TPS 1459H</td>
<td>Creativity and Education</td>
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<td>TPS 1462H</td>
<td>Women, Literature, and Education</td>
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<td>TPS 1465H</td>
<td>Special Topics in Philosophy of Education</td>
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<td>TPS 1471H</td>
<td>Critical Issues in Education: Philosophical Perspectives</td>
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<td>TPS 1472H</td>
<td>Philosophical Questions about the Teaching of Philosophy</td>
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<td>TPS 1482H</td>
<td>The Nature and Development of Religious Knowledge in Education</td>
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<td>Philosophy of Literature and Literature Education</td>
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<td>TPS 1485H</td>
<td>Literature and Values in Education</td>
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<td>TPS 1487H</td>
<td>Critical Discourses of Musical Experience and Education</td>
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<td>Feminist Theory, Musical Experience, and Music Education</td>
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<td>TPS 3417H</td>
<td>Research Seminar in Feminist Criticism, Aesthetics, and Pedagogy</td>
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<td>Aesthetics and Education</td>
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<td>TPS 3441H</td>
<td>Research Seminar in Moral Education: Part I</td>
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<td>Research Seminar in Moral Education: Part II</td>
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<td>TPS 3465H</td>
<td>Special Topics in Philosophy of Education</td>
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Degree and Diploma Programs by Graduate Unit

TPS 3480H EdD Seminar in the Philosophy of Education I
TPS 3481H EdD Seminar in the Philosophy of Education II
TPS 3484H Doctoral Practicum in the Philosophy of Education I
TPS 3485H Doctoral Practicum in the Philosophy of Education II

Graduate Faculty

Full Members
Acker, Sandra - BA, MA, PhD
Anderson, Stephen - BA, MA, PhD
Bascia, Nina - PhD
Bolter, Megan - BA, PhD
Bredo, Eric - BA, MA, PhD (Chair and Graduate Chair)
Chambers, Anthony - BS, MS, EdD
Dietzch, Peter - BA, MA, PhD, EdD
Earl, Lorna - PhD
Flessa, Joseph - BA, MA, PhD
Ford, Maureen - BA, MA, PhD
Gaskell, Jane - BA, EdD
Hache, Denis - BA, BEd, MEd, MBA, PhD
Hayhoe, Ruth - BA, PhD
Hildyard, Angela - BSc, MA, PhD
Hodges, Brian - BA, MEd, MD
Iacovetta, Franca - AB, AM, PhD
Jones, Glen - PhD
Joshee, Reva - BLit, MA, PhD
Kilbourn, Brent - BS, PhD
Lang, Daniel - BA, MAT, PhD
Levin, Benjamin - BA, MEd, PhD
Levine, David - BA, MA, PhD
Lingard, Lorelei - PhD
Magnusson, Jamie-Lynn - BA, MA, PhD
Mascall, Blair - BA, MSc, PhD (Associate Chair, Program Coordinator, Educational Administration)
Morgan, Cecilia Louise - BA, BA, MA, PhD
Mundy, Karen - AB, MA, PhD
Muzzin, Linda - BA, MA, MPSY, PhD
Ng, Roxana - BA, MA, PhD
Norris, Trevor - BA, BEd, BA, BEd, MA, MA, PhD, PhD
Olsen, Christopher - BSc, MA, PhD
Padro, Susan - BA, MS, PhD
Pascal, Charles - BA, AM, PhD
Portelli, John - MEd, PhD
Radforth, Ian - BA, MA, PhD
Reeh, Glenn - BA, PhD
Ryan, James - BEd, MEd, PhD
Sa, Creso - BA, MA, DPhil (Program Coordinator, Higher Education)
Sandwell, Ruth - BA, MA, PhD (Program Coordinator, History and Philosophy)
Smyth, Elizabeth - BA, BEd, MA, EdD
Stiegelbauer, Suzanne - BS, MA, MA, PhD
Troper, Harold - BA, MA, PhD
Wrobel, Piotr Jan - MA, PhD
Zuker, Marvin - BA, LLB, MEd

Members Emeriti
Bogdan, Deanne - BA, MA, PhD
Boyd, Dwight - BA, MEd, EdD
Davis, John - BA, BEd, MEd, PhD
Lawton, Stephen - BA, MA, MA, PhD
Misgeld, Dieter - BA, PhD
Pierson, Ruth - BA, MA, PhD
Prentice, Alison - BA, MA, PhD
Skolnik, Michael - BPhil, BA, MA
Watson, Cicely - BA, MA, PhD

Associate Members
Albert, Mathieu - PhD
Balaban, Jorge - BA, AB, PhD
Batty, Helen - MEd, MD
Chen, Liang - BA, MBA, MSc, PhD
Drea, Catherine - AB, MA, EdD
D'Souza, Mario Osbert - BA, MEd, MDiv, PhD
Dubrowski, Adam - BSc, MSc, PhD
Gingras, Jaqui - PhD
Goldin Rosenberg, Dorothy - DIPP, MES, PhD
Hilliard, Robert - MD, MD
Hogan, Colman - AB, AM, PhD
Janzen, Katharine - BS, BSc, MEd, EdD
Kane, Gabrielle - MEd, MBChB
Kitto, Simon - BA, BEd, DPhil
Macdonald, Geraldine - BSN, MEd, EdD
Mendelowitz, Sandra - PhD
Muller, Ann Louise - BA, MA, PhD
Mylopoulos, Maria - BS, MA, PhD
Nasmith, Louise - AB, AB, MDCM
Nyhof-Young, Joyce - PhD
Pinto, Laura Elizabeth - BEd, BCom, MEd, PhD
Poldre, Peeter - MD
Raphael, Dennis - PhD
Reeves, Scott - BSc, MSc
Schmidt, Matthias - PhD
Scully-Stewart, Colette Mary - BA, MEd, PhD
Seifert, Tricia - BA, MS, PhD
Sellers, Wayne - BA, MEd
Sharrell, Lyn - BA, MEd, EdD
Tully, James - PhD
Woods, Nicole - BA, PhD
Wright, Cynthia - BA, MA, PhD
Women and Gender Studies

Faculty Affiliation
Arts and Science

Degree Programs Offered
Women and Gender Studies – MA

Overview
The Women and Gender Studies Institute (WGSI) offers a program leading to the Master of Arts degree in Women and Gender Studies. The Master’s Program in Women and Gender Studies (MWGS) focuses on transnationality, gender, sex and feminism. This perspective explores the temporal and geographic processes through which women’s and men’s lives, sexed relations, gendered subjectivities and sexualities are situated. Our offerings bring feminist scholarship to the tasks of challenging and investigating colonial, post-colonial, and transnational contexts. Central themes of the program include global capitalism, nation and state formation, empire, citizenship, diaspora and cultural flows, all of which are examined through the lenses of diverse feminist scholarship. The program welcomes applications from international students.

Collaborative Programs
The following collaborative programs are available to students in participating degree programs as listed below:
1. Addiction Studies
   - Women and Gender Studies, MA
2. Aging, Palliative and Supportive Care Across the Life Course
   - Women and Gender Studies, MA
3. Asia-Pacific Studies
   - Women and Gender Studies, MA
4. Bioethics
   - Women and Gender Studies, MA
5. Diaspora and Transnational Studies
   - Women and Gender Studies, MA
6. Environment and Health
   - Women and Gender Studies, MA
7. Environmental Studies
   - Women and Gender Studies, MA
8. Ethnic and Pluralism Studies
   - Women and Gender Studies, MA
9. Jewish Studies
   - Women and Gender Studies, MA
10. Sexual Diversity Studies
    - Women and Gender Studies, MA
11. South Asian Studies
    - Women and Gender Studies, MA
12. Women’s Health
    - Women and Gender Studies, MA

Contact and Address
Web: www.wgso.utoronto.ca/graduate/ma-program
Email: grad.womenstudies@utoronto.ca
Telephone: (416) 978-3668
Fax: (416) 946-5561
Women and Gender Studies Institute
University of Toronto
Room 2036, Wilson Hall, New College
40 Willcocks Street
Toronto, Ontario M5S 1C6
Canada

Degree Programs

Women and Gender Studies

Master of Arts

Minimum Admission Requirements
- An appropriate bachelor’s degree in women’s studies and gender studies or a related area at an approved university. Applicants must have obtained an average equivalent to a University of Toronto B+ or better in their final year of undergraduate study.
- Letter of intent outlining the academic goals the applicant wishes to pursue in the program, two letters of recommendation, transcripts from all post-secondary institutions.

Program Requirements
- The student’s program of study must be approved by the institute. Total of 4.0 full-course equivalents (FCE) as follows:
  - 1.5 core full-course equivalents (FCEs) in Women and Gender Studies (WGS 1000H, WGS 1001H, and WGS 1002H)
  - 0.5 elective FCE in Women and Gender Studies;
    - either a special topics seminar (WGS 1003H or WGS 1004H), an independent research/reading course (WGS 1007H), or a practicum extending over both the fall and winter sessions (WGS 1006H).
  - 1.0 FCE Master’s Research Paper (WGS 1005Y)

0 Course that may continue over a program. The course is graded when completed.
Degree and Diploma Programs by Graduate Unit

- 1.0 FCE (one year-long or two half-year courses) offered by other departments and chosen in consultation with your faculty advisor
- The MA degree program is not offered on a part-time basis.

Normal Program Length: 3 sessions full-time
Time Limit: 3 years full-time

Course List

WGS 1000H Theories, Histories, Feminisms
WGS 1001H Feminism, Transnationalism and Postcolonialism
WGS 1002H Feminist Methodologies and Epistemologies
WGS 1003H Special Topics in Feminist Studies
WGS 1004H Special Topics in Feminist Theory
WGS 1005Y MA Research Paper
WGS 1006H Practicum in Women and Gender Studies
WGS 1007H Directed Research/Reading
WGS 1008Y Independent Research and Reading in Women and Gender Studies
WGS 1009H Special Topics in Feminist Studies 1
WGS 1010H Special Topics in Feminist Studies 2
WGS 1011H Special Topics in Feminist Studies 3
WGS 1012Y Special Topics in Feminist Studies 4
WGS 1013H Special Topics in Feminist Theory 1
WGS 1014H Special Topics in Feminist Theory 2
WGS 1015Y Special Topics in Feminist Theory 3
WGS 1016H Special Topics in Feminist Studies
WGS 1017H Special Topics in Feminist Studies
WGS 1018H Special Topics in Feminist Studies
WGS 1019H Special Topics in Feminist Studies
WGS 1020H Special Topics in Feminist Studies
WGS 1021H Special Topics in Feminist Studies
WGS 1022H Special Topics in Feminist Studies
WGS 1023H Special Topics in Feminist Studies
WGS 1024H Special Topics in Feminist Studies
WGS 1025H Special Topics in Feminist Studies
WGS 1026H Special Topics in Feminist Studies
WGS 1027H Special Topics in Feminist Studies

Graduate Faculty

Full Members
Alexander, Mary (Jacqui) - BSW, MA, PhD
Bamford, Sandra - BA, MA, MPA, ScD
Boddy, Janice - BA, MA, PhD
Brown, Elspeth - MA, PhD
Cobb, Michael - BA, MA, AM, PhD
Coloma, Roland Sintos - TD, BA, MA, MA, PhD
Columpar, Corrin - BA, PhD
Cook, Rebecca - BA, LLM, MA, MPA, JD, SJD
Cossman, Brenda - LLB, LLM
Cowen, Deborah - BA, MCP, PhD
Dehli, Kari - BA, MA, PhD
Fox, Bonnie - AB, PhD
Keith, Alison - BA, MA, PhD
Klassen, Pamela - BA, MA, PhD
Larson, Katherine - BMus, AB, MPH, PhD
Lo, Marlene - DPhil
Magnusson, Jamie-Lynn - BA, MA, PhD
McEhinny, Bonnie - PhD (Director)
Miles, Angela - BA, MA, PhD
Mirchandani, Kiran - BA, MPH, PhD
Mojab, Shahrzad - BA, MEd, EdD
Morgan, Kathryn - BA, MA, MEd, PhD
Morgenstern, Naomi - BA, MA, PhD
Murphy, Michelle - BA, PhD (Acting Director and Coordinator of Graduate Studies)
Murray, Heather - BA, MA, PhD
Newton, Melanie - BA, PhD
Ng, Roxana - BA, MA, PhD
Nyquist, Mary - BA, MA, PhD
Park, Jin-Kyung - PhD
Rankin, Katharine - BA, MA, PhD
Razack, Sherene - BA, MA, PhD
Rittich, Kerry - BMus, LLB, SJD
Ruddick, Susan - PhD
Salih, Sara - BA, DPhil
Song, Je Sook - BA, PhD
Sykes, Heather - BSc, PhD
Tambe, Ashwni - BA, MA, PhD
Taylor, Judith - BA, PhD
Titchkosky, Tanya - BA, MA, PhD
Trotz, Alissa - AB, MPH, PhD
Valverde, Mariana - BA, MA, PhD
Walcott, Rinaldo - BA, MA, PhD
Wane, Njoki - BE, MSc, MEd, PhD

Members Emeriti
Armatage, Kay - BA, MA, PhD

Associate Members
Bhuyan, Rupaleem - BA, MA, PhD
Larkin, June - PhD

0 Course that may continue over a program. The course is graded when completed.
Collaborative Programs

The School of Graduate Studies currently offers approximately 40 graduate collaborative programs. Collaborative programs emerge from cooperation between two or more graduate units (departments, centres, or institutes). The collective experience of the participating graduate units provides the student with a broader base from which to explore a novel interdisciplinary area or some special development in a particular discipline.

The student must be admitted to, and enrol in, one of the collaborating graduate units and must fulfil all the requirements for the degree in the home unit and any additional requirements of the collaborative program. Each collaborative program is designed to allow a focus in the area of specialty. On successful completion of the program, the student receives a transcript notation.
Aboriginal Health

Lead Faculty
Medicine

Participating Degree Programs
Anthropology – MA, MSc, PhD
Counselling Psychology – MA, MEd, EdD, PhD
Geography – MA, PhD
Medical Science – MSc, PhD
Nursing Science – MN, PhD
Nutritional Sciences – MHSc, MSc, PhD
Public Health Sciences – MPH, PhD
Sociology in Education – MA, MEd, EdD, PhD

Supporting Units
Aboriginal Studies Program (undergraduate), Faculty of Arts & Science

Overview
The Collaborative Program in Aboriginal Health involves the graduate programs listed above. The program is offered in collaboration with the Faculty of Arts and Sciences’ Aboriginal Studies Program. The main objective of the program is to provide graduate training in Aboriginal health research and practice while enhancing mutually beneficial relationships with Aboriginal communities and organizations.

Contact and Address
Web: www.cpah.utoronto.ca
Email: kue.young@utoronto.ca
Telephone: (416) 978-0298
Fax: (416) 978-1883
Aboriginal Health Collaborative Program
c/o Dalla Lana School of Public Health
University of Toronto
Room 547, 155 College Street
Toronto, Ontario M5T 3M7
Canada

Master's Level
Minimum Admission Requirements
• Applicants who wish to enrol in a collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
• Applicants must submit to the Program Committee of the Collaborative Program in Aboriginal Health:
  ○ A personal statement, in the form of a letter no longer than three pages, to describe relevant personal and/or professional experiences, a career plan, and motivation in seeking advanced training in Aboriginal health. The nature of any relationship with an Aboriginal community/organization that already exists or to be developed should also be described.
  ○ Photocopies of application materials submitted to their home unit including curriculum vitae, transcripts, and letters of reference.

Program Requirements
• All master’s students in the program will take a core course (0.5 full-course equivalent [FCE]) chosen from the list below or an individual reading course to be approved and supervised by a member of the Collaborative Program in Aboriginal Health.
• In home graduate units where a thesis or major research paper is required, it must deal with an Aboriginal health topic. At least one member of the student’s thesis committee should be a core faculty member of the collaborative program.
• In home graduate units that do not have a thesis requirement, students must undertake a practicum or equivalent in an Aboriginal health topic, supervised by a core faculty member of the collaborative program.
• Students must participate in the Research Seminar Series, held monthly, as well as participate in at least one National/Regional Workshop.
• Students must complete the requirements of the collaborative program in addition to those requirements for the degree program in their home graduate unit.

Doctoral Level
Admission Requirements
• Applicants who wish to enrol in a collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
• Applicants must submit to the Program Committee of the Collaborative Program in Aboriginal Health:
  ○ A personal statement, in the form of a letter no longer than three pages, to describe relevant personal and/or professional experiences, a career plan, and motivation in seeking advanced training in Aboriginal health. The nature of any relationship with an Aboriginal community/organization that already exists or to be developed should also be described.
  ○ Photocopies of application materials submitted to their home unit including curriculum vitae, transcripts, and letters of reference.
Program Requirements

- The requirements are the same as for the master’s program listed above.
- Students who have previously taken one of the core courses (0.5 FCE) during their master’s program are required to take a different course during their doctoral program.
- Students participate in a new Research Seminar Series and at least one National/Regional Workshop.

Course List

Core Courses

- CHL 5421H Aboriginal Health
- NUR 1014H Politics of Aboriginal Health

Program Committee

Antone, Eileen - BA, BEd, MEd, EdD – Aboriginal Studies Program
Stewart, Suzanne - BA, MA – Adult Education & Counselling Psychology
Sieciechowicz, Krystyna - BA, MA, PhD – Anthropology
McGregor, Deborah - BSc, MES, PhD – Geography
Marrett, Loraine - BMath, PhD – Medical Science
Muntaner, Carles - MHSc, MD, PhD – Nursing Science
Hanley, Anthony - BSc, MSc, PhD, Canada Research Chair – Nutritional Sciences
Young, Kue - DrMed, PhD – Public Health Sciences (Director)
Cannon, Martin - MA, PhD – Sociology & Equity Studies in Education
Addiction Studies

Lead Faculty
Medicine

Participating Degree Programs
Adult Education and Community Development – MA, MEd, EdD, PhD
Anthropology – MA, MSc, PhD
Biomedical Engineering – MASc, PhD
Criminology – MA, PhD
Exercise Sciences – MSc, PhD
Information – MI, PhD
Medical Science – MSc, PhD
Nursing Science – MN, PhD
Pharmacology – MSc, PhD
Pharmaceutical Sciences – MSc, PhD
Psychology – MA, PhD
Public Health Sciences – MPH, MSc, PhD
Social Work – MSW, PhD
Sociology – MA, PhD
Women and Gender Studies – MA

Overview
The graduate programs listed above, in collaboration with the Centre for Addiction and Mental Health, the Canadian Centre on Substance Abuse, and the Ontario Tobacco Research Unit, participate in the Collaborative Program in Addiction Studies at the University of Toronto. The purpose of the program is to develop and integrate graduate training in the multidisciplinary field of addictions, an area that includes the use and abuse of alcohol, tobacco, and psychoactive substances, as well as gambling and other addictive behaviours. Master’s programs requiring a thesis, practicum, or research paper, and doctoral programs are included. Upon fulfillment of the program requirements, transcripts issued by the School of Graduate Studies will denote completion of the Collaborative Program in Addiction Studies.

Contact and Address
Web: www.phs.utoronto.ca/c_copas.htm
Email: marilyn_herie@camh.net
Telephone: (416) 535-8501 ext. 7434
Collaborative Program in Addiction Studies
University of Toronto
Centre for Addiction and Mental Health
175 College Street West
Toronto, Ontario M5T 1P7
Canada

Master’s Level

Admission Requirements
• Applicants must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments. They must contact the collaborating professor within their department directly.

Program Requirements
• Students must meet all requirements of their home department in terms of coursework and thesis work, or equivalent.
• Master’s students in the collaborative program are required to take PAS 3700H Multidisciplinary Aspects of Addictions, plus 0.5 full-course equivalent (FCE) selected from the list of approved elective courses presented below or an approved directed reading course.
• The student’s thesis must deal with a subject in the field of addictions. The thesis is supervised and evaluated in the same manner as others in the home department, but normally involves, as appropriate, supervisory and examining professors from other disciplines represented in the collaborative program. In collaborating departments that do not require a thesis, a practicum or major research paper will be accepted instead of a thesis, as long as the topic or focus is directly related to addictions. In collaborating departments that do not have a thesis or equivalent requirement, students must take a third 0.5 FCE from the list of approved electives.

Doctoral Level

Admission Requirements
• Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments. They must contact the collaborating professor within their department directly.

Program Requirements
• Doctoral students in the collaborative program are required to take PAS 3700H Multidisciplinary Aspects of Addictions, if they have not already done so, plus an additional 0.5 FCE (not taken previously) from the approved listing of elective courses presented below or an approved directed reading course.
• Students must meet all requirements of their home department in terms of coursework and thesis work, or equivalent.
The student’s thesis must deal with a subject in the field of addictions. The thesis is supervised and evaluated in the same manner as others in the home department, but normally involves, as appropriate, supervisory and examining professors from other disciplines represented in the collaborative program. In collaborating departments that do not require a thesis, a practicum or major research paper will be accepted instead of a thesis, as long as the topic or focus is directly related to addictions. In collaborating departments that do not have a thesis or equivalent requirement, students must take a third 0.5 FCE from the list of approved electives.

Course List

Core Course
PAS 3700H Multidisciplinary Aspects of Addiction

Elective Courses
AEC 1275H Special Topics in Counselling Psychology (Master’s)
PAS 3701H Research Issues in Addictions
CHL 5119H Social and Political Perspectives on Drugs and Addictions
CHL 5417H Tobacco and Health: From Cells to Society
JPM 1005Y Behavioural Pharmacology
MSC 1085H Molecular Approaches to Mental Health and Addictions
PSY 2703H The Psychology of Addictions
SOC 6123H Sociology of Addiction
SWK 4616H Drug Dependence: Interventive Approaches

Program Committee
Goldstein, Abby - PhD – Adult Education and Community Development
Agic, Branka - MHS, MD, PhD cand. – Centre for Addiction and Mental Health
Erickson, Patricia - BA, MA, PhD – Centre for Addiction & Mental Health
Gartner, Rosemary - BA, AA, MS, PhD – Criminology
Duff, Wendy - BA, MLS, PhD – Information Studies
Muntaner, Carles - MHS, MD, PhD – Nursing Science
Ferrence, Roberta - BA, MA, PhD – Ontario Tobacco Research Unit
Sproule, Beth - BScPhm, PharmD – Pharmaceutical Sciences
Brands, Bruna - PhD – Pharmacology & Toxicology
Cunningham, John - BSc, MA, PhD – Psychology
Mann, Robert - BA, MAsc, PhD – Public Health Sciences
Shachak, Aviv - PhD – Public Health Sciences
Cullen, James (Jim) - BSW, AB, MSW, PhD – Social Work
Herie, Marilyn - BA, MSW, PhD – Social Work (Director)
Tepperman, Lorne - BA, MA, PhD – Sociology
Watson, Tara - PhD cand. (Student Representative)
Collaborative Programs

Aging, Palliative and Supportive Care Across the Life Course

Lead Faculty
Medicine

Participating Degree Programs

Adult Education and Community Development – MA, MEd, EdD, PhD
Anthropology – MA, MSc, PhD
Counselling Psychology – MA, MEd, EdD, PhD
Dentistry – MSc, PhD
Exercise Sciences – MSc, PhD
Health Administration – MHSce
Health Policy, Management and Evaluation – MSc, PhD
Information – MI
Information Studies – PhD
Medical Science – MSc, PhD
Nursing Science – MN, PhD
Pharmaceutical Sciences – MSc, PhD
Psychology – MA, PhD
Public Health Sciences – MPH, MSc, PhD
Rehabilitation Science – MSc, PhD
Social Work – MSW, PhD
Sociology – MA, PhD
Speech-Language Pathology – MSc, PhD
Women and Gender Studies – MA

Overview

The Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course prepares students for specialization in the field of aging and/or the field of palliative and supportive care, with an emphasis on viewing aging and palliative issues within the perspective of the life course. The collaborative program offers students two options of study:

1. aging and the life course
2. palliative and supportive care

Students must apply to and register in a home participating unit (i.e., one of the graduate programs listed above), and follow a course of study acceptable to both the graduate unit and the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course.

Upon successful completion of the requirements, students receive, in addition to the degree from the home graduate unit, the notation “Completed the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course” on their transcript.

Contact and Address
Web: www.aging.utoronto.ca
Telephone: (416) 978-0377
Fax: (416) 978-4771

Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course
University of Toronto
Suite 106, 222 College Street
Toronto, Ontario M5T 3J1
Canada

Master's Level

Admission Requirements

- Applicants must apply to a participating graduate unit and comply with the admission procedures of that unit. Applicants may apply concurrently to their participating graduate unit and to the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course.

- Applicants must forward the following to the Program Committee of the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course:
  a. a copy of the School of Graduate Studies Application form submitted to the participating graduate unit
  b. copies of official undergraduate and graduate transcripts from all institutions previously or currently attended
  c. a resume or curriculum vitae
  d. a letter explaining how their program of study and specific research interests relate to either option 1 in aging and the life course, or option 2 in palliative and supportive care at the graduate level

Students may use copies of official documents (a. and b. above) for their application to the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course. These may be obtained from their home participating graduate unit.

Program Requirements

- In addition to meeting the program requirements of their home department, students will be required to complete the master’s level core course (0.5 FCE) and one elective course (0.5 FCE) for either of the two options. It is expected that the student’s thesis or practicum (whichever is included in their program of study) would be in his or her chosen study area (i.e., in Aging and the Life Course or in Palliative and Supportive Care).
Collaborative Programs

Doctoral Level

Admission Requirements

- Applicants must apply to a participating graduate unit and comply with the admission procedures of that unit.
- Applicants may apply concurrently to their participating graduate unit and to the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course.
- Applicants must forward the following to the Program Committee of the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course:
  - a copy of the School of Graduate Studies Application form submitted to the participating graduate unit
  - copies of official undergraduate and graduate transcripts from all institutions previously or currently attended
  - a resume or curriculum vitae
  - a letter explaining how their program of study and specific research interests relate to either option 1 in Aging and the Life Course, or option 2 in Palliative and Supportive Care at the graduate level
- Two letters of reference (with specific mention of background in either aging and the life course or palliative and supportive care).

Program Requirements

- In addition to meeting the program requirements of their home department, students will be required to complete both the master's and doctoral-level core courses (0.5 FCE each) and one elective course (0.5 FCE) for either of the two options. The master's level course must be completed before enrolling in the doctoral level course.
- It is expected that the student's thesis or practicum (whichever is included in his or her program of study) would be in his or her chosen study areas (i.e., in either aging and the life course or palliative and supportive care).

Course List

Core Courses for Option 1: Aging and the Life Course

Master's Level

AGE 2000H Principles of Aging

Doctoral Level

AGE 3000H Advanced Research Seminar in Aging and the Life Course (AGE 2000H is a prerequisite for entry into the doctoral level of the collaborative program)

Core Courses for Option 2: Palliative and Supportive Care

Master's Level

AGE 1000H Multidisciplinary Research Concepts in Palliative and Supportive Care

Doctoral Level

AGE 1500H Advanced Research Methodologies in Palliative and Supportive Care (AGE 1000H is a prerequisite for entry into the doctoral level of the collaborative program)

Elective Courses

AEC 1187H Alternative Ways of Researching Aging, Illness and Health
AGE 2500H Current Research Topics in Aging and the Life Course
DEN 1003Y Preventive Dentistry
EXS 5501H Physical Activity and Aging
EXS 5502H Aging and Functional Capacity: an Integrative Approach
NUR 1037H Aging and Place: Social and Policy Transitions
NUR 1058H Aging, Gender, and Equity
REH 1520H Physiological Factors Constraining Rehabilitation of the Elderly
REH 1620H Methodological Issues in Research on Aging and Health
REH 1640H Sociology of Disability
SLP 1533Y Aphasias
SLP 1534Y Motor Speech Disorders
SLP 2501H Special Topics in Communication Disorders
SLP 2502Y Specialized Study in Communication Disorders
SOC 6707H Intermediate Data Analysis
SWK 4612H Social Work and Aging: Integrated Policy and Practice
SWK 4613H Social Work Practice with the Aged: Policy and Practice
SWK 4618H Special Issues in Gerontological Social Work
SWK 4803H Special Studies 3: Evidence-Based Counselling Strategies with Older Adults
Requests to approve other courses as equivalent to fulfill program requirements may be made to the Program Committee. Students taking either option may choose the masters core course in the other option as an elective.

**Additional Electives for Option 2 Only**

- AGE 1200H Interprofessional Psychosocial Oncology: Introduction to Theory and Practice
- AGE 1250H Relational Practices with Families in Oncology and Palliative Care
- RLG 2018H Religion and Bioethics
- RLG 2037H Religion and Healing
- PHL 2145H How Bioethics Fits into Other Disciplines
- PHL 2146Y Topics in Bioethics
- HAD 5301H Intro to Clinical Epidemiology and Health
- HAD 5730H Research Economics I: Economic Evaluation
- HAD 5771H Resource Allocation Ethics
- LAW 338H Public Health Law
- LAW 582H Privacy, Property, and the Human Body
- MSC 1051H Research Bioethics
- MSC 1060H Biostatistics for Health Sciences
- MSC 1090H Intro to Clinical Biostatistics
- MSC 3003Y Empirical Approaches in Bioethics
- NUR 1021H Nursing Ethics
- NUR 1023H Critical Issues in the Design of Controlled Trials of Behavioural Health Care Interventions
- NUR 1024H Foundations of Qualitative Inquiry
- NUR 1025H Doing Qualitative Research
- NUR 1026H Evaluating Interventions in Clinical Settings
- NUR 1045H Theories of Pain: Impact on the Individual, Family, and Society
- NUR 1046H Persistent Illness: Theoretical, Research, and Practice Implications
- NUR 1050H Coping With Illness
- NUR 1051H Assessment and Management of Common Responses to Illness

**Program Committee**

Berta, Whitney - PhD – Health Policy, Management & Evaluation

McDonald, Lynn - BA, MSW, PhD – Life Course & Aging, Social Work

Devins, Gerald - PhD – Medical Science

Rodin, Gary - BSc, MD, FRCP – Medical Science (Co-Chair)

Chasteen, Alison - BA, MA, PhD – Psychology

Einstein, Gillian - PhD – Psychology (Co-Chair)

Berry, Brent - PhD – Sociology
Ancient and Medieval Philosophy

Lead Faculty

Arts and Science

Participating Degree Programs

Classics – PhD
Medieval Studies – PhD
Philosophy – PhD

Overview

The graduate units listed above participate in the Collaborative Program in Ancient and Medieval Philosophy. The three units contribute courses and provide facilities and supervision of doctoral research. The program operates only at the doctoral level. The program is administered by a program committee, which is drawn from all three units and is chaired by the Director who is a member of the committee.

Students who wish to enrol in the collaborative program must apply to and be admitted to both the doctoral program in one of the collaborating departments and the collaborative program. Successful completion of the program permits the designation “Completed Collaborative Program in Ancient and Medieval Philosophy” to appear on the student's transcript. Interested students should contact the Director and the graduate coordinator of the unit in which they intend to register.

Contact and Address

Web: http://cpamp.utoronto.ca
Email: cpamp@chass.utoronto.ca
Telephone: (416) 978-3178
Fax: (416) 978-8703

Doctoral Level

Admission Requirements

• All applicants must meet the admission criteria of the unit through which they wish to enrol.

Program Requirements

• Students must fulfil the normal requirements of the PhD in their home unit.
• Students will normally concentrate in either ancient or medieval philosophy, though it is not necessary to indicate such specialization formally. Their program of study must also be approved by the Program Committee and must include the following elements.
  ○ 1.0 full-course equivalent (FCE) in some area of philosophy other than the history of philosophy.
  ○ Successful completion of the Program’s proseminar (AMP 2000Y).
  ○ A language competence examination at the appropriate level (in at least one of Greek, Classical or Medieval Latin, or Arabic, as relevant) consisting of unseen translation must be successfully completed before the major field or area examinations are first attempted.
  ○ Area, qualifying, or major field examinations must contain a paper involving translation from at least one of Greek, Classical or Medieval Latin, or Arabic (as appropriate to the area or field). This examination will be based on a substantial list of texts relevant to the field or area.
  ○ A reading knowledge of two modern languages other than English.

In most cases, some of these elements will be fulfilled by program requirements in the doctoral program of the home unit.

Course List

Required Course

AMP 2000Y Collaborative Program in Ancient and Medieval Philosophy (CPAMP) Proseminar (CR/NCR)

Program Committee

Inwood, Brad - BA, MA, PhD – Classics, Philosophy
Pickavé, Martin - BA, MA, PhD – Medieval Studies, Philosophy (Director)
King, Peter - AB, PhD – Philosophy
Ancient Greek and Roman History

Lead Faculty
Arts and Science

Participating Degree Programs
Classics (University of Toronto) – PhD
History (York University) – PhD

Overview
The Department of Classics at the University of Toronto and the Graduate Program in History at York University participate in the Joint Collaborative Program in Ancient Greek and Roman History (COLPAH). The program in History provides a broad historical context and methodological framework; Classics provides integration with other fields of study within the ancient world and access to linguistic, cultural, and ancillary disciplines. The program operates only at the doctoral level.

Students are enrolled in one of the two units. The program is administered by a Program Committee of four faculty members, two from each unit, one of whom is the Director. The two units contribute courses and provide facilities and supervision for research. Successful completion of the program permits the designation “Completed Joint Collaborative Doctoral Program in Ancient Greek and Roman History” to appear on the student’s transcript.

Interested students should contact the Director of the joint collaborative program as well as the graduate coordinator of the unit in which they intend to register.

Contact and Address
University of Toronto
Web: www.chass.utoronto.ca/classics
Email: grad.classics@utoronto.ca
Telephone: (416) 978-5513
Fax: (416) 978-7174
Joint Collaborative Program in Ancient Greek and Roman History (COLPAH)
Department of Classics
University of Toronto
125 Queen’s Park Crescent
Toronto, Ontario M5S 2C7 Canada

York University
Web: www.yorku.ca/ghistory/collaborative
Email: jedmond@yorku.ca
Telephone: (416) 736-5123
Fax: (416) 736-5836
Joint Collaborative Program in Ancient Greek and Roman History (COLPAH)
Department of History
York University
2140 Vari Hall
Toronto, Ontario M3J 1P3 Canada

Doctoral Level

Admission Requirements
• Applicants must meet the admissions criteria of the unit through which they wish to enrol. Interested students register in the joint collaborative program with the approval of the Program Committee upon admission to the PhD program in either unit.
• A strong background in ancient history will be expected of all interested applicants, as will a level of preparation in the ancient languages and languages of research that is appropriate for the institution in which they register.

Program Requirements
• Students take the required seminars CLA 3020H, CLA 3200Y, as well as 1.5 full-course equivalents (FCEs) in Greek and Roman history offered by the collaborating units. They will take all other courses to fulfil the requirements of either the Graduate Program in Classics at the University of Toronto or the Graduate Program in History at York University.
• Students take all examinations and meet all language requirements of their home unit.
• The Program Committee approves the major and minor fields of all students in the joint collaborative program; the major field must always be in Greek and Roman history, whereas the minor field will normally be in a complementary area of ancient history but can, where appropriate, be selected from other areas of study covered by the participating units.
• Students must complete the requirements of the collaborative program in addition to those of their home unit.

Course List
CLA 3020H Research Methods in Ancient History (Credit/No Credit)
CLA 3200Y Work in Progress in Ancient History (Credit/No Credit)

Program Committee
Bendlin, Andreas - PhD – Classics (Director; on leave July 2011–June 2012)
Bruun, Christer - BA, MA, PHD – Classics (Acting Director)
Akrigg, Benjamin - BA, PhD – University of Toronto
Cottier, Michel - Licence-ès-Lettres, DPhil – University of Toronto
Kelly, Benjamin - BA, MA, DPhil – York University
### Asia-Pacific Studies

#### Lead Faculty
Arts and Science

#### Participating Degree Programs
- **Anthropology** – MA
- **East Asian Studies** – MA
- **Economics** – MA
- **Geography** – MA
- **History** – MA
- **Management** – MBA
- **Political Science** – MA
- **Public Policy** – MPP
- **Social Work** – MSW
- **Sociology** – MA
- **Women and Gender Studies** – MA

#### Overview
The collaborative master’s degree program in Asia-Pacific Studies is designed to provide graduates with advanced training in a particular discipline and in the historical and social science studies of modern East and Southeast Asia. The major topics of emphasis are political economy, modern and contemporary social history, international relations, gender, political and social change, economic development, and cultural studies. The program contributes to the development of an integrated and interdisciplinary research community in Asia-Pacific Studies at the university.

The graduate programs listed above participate in the collaborative master’s degree program in Asia-Pacific Studies at the University of Toronto. The collaborating units contribute courses and provide facilities and supervision for master’s level research. This program is administered by a Program Committee chaired by a Program Director.

Applicants are expected to meet the admission and degree requirements of both a home unit and the program in Asia-Pacific Studies. The collaborative master’s degree program requirements can be met concurrently with, or in addition to, home unit requirements. In addition to their master’s degree from the home unit, students who successfully complete the requirements of the collaborative program will receive a certificate and the notation “Completed Collaborative Program in Asia-Pacific Studies” on their transcript.

#### Contact and Address
- **Web:** www.utoronto.ca/asiapacific-ma
- **Email:** asiapacific.ma@utoronto.ca
- **Telephone:** (416) 946-8832
- **Fax:** (416) 946-8838

### Master’s Level

#### Admission Requirements
- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
- To be considered for admission to the collaborative master’s degree program in Asia-Pacific Studies, applicants should have taken the equivalent of 4.0 full-course equivalents (FCEs) with substantial Asia coverage by the time of application, or should have had substantial working or living experience in East or Southeast Asia.
- Applicants use the online application process and must forward the following to the Director of the collaborative master’s degree program:
  - a hard copy Supplementary Application package (www.utoronto.ca/asiapacific-ma)
  - official undergraduate and graduate transcripts from all institutions attended previously and currently
  - at least two letters of reference with specific mention of Asia-Pacific Studies background or Asia-Pacific experiences
  - a statement of purpose
  - a curriculum vitae

#### Program Requirements
- **ASI 1000Y**
- 1.0 full-course equivalent (FCE) that may be in the form of one of the following:
  - a master’s thesis
  - a major research paper in one of the FCEs related to Asia-Pacific
  - a thesis-equivalent research paper in an independent research 0.5 FCE. This option must be combined with an additional 0.5 FCE on Asia-Pacific listed on the website (www.utoronto.ca/asiapacific-ma)
- By the time of graduation from the master’s degree program, every student is strongly expected to have a working knowledge of an East or Southeast Asian language as needed for his or her program of study.
Collaborative Programs

Course List
ASI 1000Y Issues in Asia-Pacific Studies

Please consult the Asia-Pacific Studies website for courses offered by participating graduate units.

Program Committee
Luong, Hy Van - BA, MA, PhD – Anthropology (Director)
Sakaki, Atsuko - MA, PhD – East Asian Studies
Brandt, Loren - BS, MS, PhD – Economics
Silvey, Rachel - BA, MA, PhD – Geography
Tran, Nhung - BA, MA, PhD – History
Oxley, Joanne - BA, BSc, MBA, MA, PhD – Management
Silvey, Rachel - BA, MA, PhD – Planning
Bertrand, Jacques - BA, MSc, MA, PhD – Political Science
Peng, Ito - BSW, BSc, MA, PhD – Public Policy & Governance
Tsang, Ka Tat - BSocSc, MSocSc, PhD – Social Work
Peng, Ito - BSW, BSc, MA, PhD – Sociology
McElhinny, Bonnie - BA, MA, PhD – Women & Gender Studies
Astrophysics

Lead Faculty
Arts and Science

Participating Degree Programs
Astronomy and Astrophysics – MSc
Physics – MSc

Overview
The graduate programs listed above participate in the Collaborative Master of Science Program in Astrophysics. This program fosters graduate education in Astrophysics, particularly in those areas of study that overlap traditional departmental boundaries.

Upon certification by the Director that all requirements of the collaborative program have been fulfilled, the participating home department will recommend the granting of the MSc degree, and the designation “Completed Collaborative Program in Astrophysics” will appear on the transcript.

Contact and Address
Web: www.astro.utoronto.ca/graduate
Email: collab.astrophys@utoronto.ca
Telephone: (416) 946-3044
Fax: (416) 971-2026
Collaborative Program in Astrophysics
c/o C. C. Dyer
Department of Astronomy and Astrophysics
University of Toronto
Room AB209, 50 St. George Street
Toronto, Ontario M5S 3H4
Canada

Master’s Level

Admission Requirements
- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments, this being either Astronomy and Astrophysics or Physics.
- Applicants must submit a supplementary brief application form to the Collaborative Program Director (available from either home department or the collaborative program office).

Program Requirements
- Students must meet all respective degree requirements of the School of Graduate Studies and the home department. This will normally require the equivalent of 5.0 full-course equivalents (FCEs) as follows:
  - 1.5 or more FCEs in Astronomy and Astrophysics
  - 1.5 or more FCEs in Physics
  - 1.0 FCE from Astronomy and Astrophysics, Physics or a cognate department
  - a supervised research project in the field of astrophysics, equivalent to 1.0 FCE; the supervised research project and associated report will be completed under the regulations of AST 1500Y for students whose home department is Astronomy and Astrophysics and under the regulations of PHY 3400Y for students whose home department is Physics
- Students must attend the seminar program of the Canadian Institute of Theoretical Astrophysics and prepare a report on a selection of these seminars for submission to the Director.

Program requirements are normally completed within 12 months of entry to the program.

Program Committee
Dyer, Charles - BSc, MSc, PhD – Astronomy & Astrophysics (Director)
Sipe, John - BSc, MSc, PhD – Physics
Murray, Norman - BSc, PhD, Canada Research Chair – Theoretical Astrophysics
Bioethics

Lead Faculty
Medicine

Participating Degree Programs
Health Administration – MHSc
Health Policy, Management, and Evaluation – MSc, PhD
Law – LLM, SJD
Medical Science – MSc, PhD
Nursing Science – MN, PhD
Philosophy – MA, PhD
Public Health Sciences – MPH, MSc, PhD
Rehabilitation Science – MSc, PhD
Religion – MA, PhD
Social Work – PhD

Overview
The graduate units listed above participate in the Collaborative Program in Bioethics at the master’s and doctoral levels.

Students with an interest in bioethics register in one of the graduate units associated with the Collaborative Program in Bioethics (CPB). Upon successful completion, the student receives the master’s or PhD degree in their discipline as well as the notation “Completed Collaborative Program in Bioethics” on the transcript.

Contact and Address
Web: www.jointcentreforbioethics.ca/education/cpb.shtml
Email: carmen.alfred@utoronto.ca
Telephone: (416) 978-0871
Fax: (416) 978-1911
Joint Centre for Bioethics (JCB)
University of Toronto
Suite 754, 155 College Street
Toronto, Ontario M5T 1P8
Canada

Master’s Level
Admission Requirements
- Applicants to the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
- Students interested in the master’s programs apply simultaneously to both the collaborating graduate unit and the CPB. Applications for admission to the CPB are considered only after admission to the collaborating graduate unit. If a student applies to more than one unit, a copy of each file must be submitted to the Academic Secretary, Collaborative Program in Bioethics.
- Visit the CPB’s website for the application form and details about supporting documentation. The application must be accompanied by:
  - CPB’s application form
  - an up-to-date curriculum vitae
  - up-to-date copies of all transcripts
  - a one-page letter of intent
  - two letters of reference
- Where a thesis is required, an email or note from the proposed supervisor indicating willingness to supervise the student should be submitted to the Academic Secretary. The Joint Centre for Bioethics website lists faculty and bioethicists who are available for advice relating to research proposals.

Program Requirements
- A student will be expected to meet the requirements of the home graduate unit as well as those of the collaborative program.
- Courses taken to complete degree requirements must include the following, which may be counted towards the degree in the home unit:
  - PHL 2145H, a review of the philosophical foundations of bioethics
  - 0.5 full-course equivalent (FCE), normally from the home unit; see suggested list below
- Master’s programs require either a thesis or equivalent research project as determined by the home unit. The thesis will be supervised by a thesis committee comprising a supervisor and two other members. The thesis is evaluated according to the procedures and standards of the home graduate unit and must fall within the broad area of bioethics. Non-thesis projects require supervision; requirements for such projects will be determined by the home unit.

Doctoral Level
Admission Requirements
- Applicants to the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
- Students interested in the doctoral programs apply simultaneously to both the collaborating graduate unit and the CPB. Applications for admission to the CPB are considered only after admission to the collaborating graduate unit. If a student applies to more than one unit, a copy of each file must be
submitted to the Secretary, Collaborative Program in Bioethics.

- Visit the CPB’s website for the application form and details about supporting documentation. The application must be accompanied by:
  - CPB's application form
  - an up-to-date curriculum vitae
  - up-to-date copies of all transcripts
  - a one-page letter of intent
  - two letters of reference
- For the doctoral thesis, an email or note from the proposed supervisor indicating willingness to supervise the student should be submitted to the Academic Secretary. The Joint Centre for Bioethics website lists faculty and bioethicists who are available for advice relating to research proposals.

Program Requirements
- A student will be expected to meet the requirements of the home graduate unit as well as those of the collaborative program.
- Courses taken to complete degree requirements must include the following, which may be counted towards the degree in the home unit:
  - PHL 2145H, a review of the philosophical foundations of bioethics
  - MSC 3001Y, issues and case studies in bioethics
  - 0.5 full-course equivalent (FCE), normally from the home unit; see suggested list below
- All doctoral candidates must complete a thesis.
- Thesis supervisors must have appointments to the graduate faculty and will normally be members of the Bioethics Collaborative Program Committee. Ordinarily members of the thesis committee and examining professors are drawn from other relevant disciplines.

Course List
Please note that these courses are not offered every year. Consult each unit’s website for details.

Health Policy, Management and Evaluation
- HAD 5011H - Canada's Health Care System
- HAD 5306H - Introduction to Health Care Research Methodology
- HAD 5741H - Health Law
- HAD 5768H - International Perspectives on Health Services Management
- HAD 5771H - Resource Allocation Ethics

Law
Participation in LAW courses is at the discretion of the Faculty of Law upon presentation, to the Faculty of Law Records Office, of a signed permission form from the student's home department. Note that preference is given to JD students and that many law courses are full by the end of the Faculty of Law add/drop period.
- LAW 267H - Medical Law
- LAW 388H - Public Health Law
- LAW 582H - Privacy, Property and the Human Body

Medical Science
- MSC 1051H - Research Bioethics
- MSC 3002Y - Foundations Seminar II
- MSC 3003Y - Empirical Approaches in Bioethics
- MSC 3004Y - Ethics Committees and Consultation

Nursing Science
- NUR 1021H - Nursing Ethics

Philosophy
- PHL 2131H - Ethics
- PHL 2132H - Seminar in Ethics
- PHL 2133H - Topics in Ethics
- HPS 1105H - Philosophy of Medicine

Public Health Sciences
- CHL 5111H - Qualitative Research Methods
- CHL 5121H - Genomics, Bioethics and Public Policy
- CHL 5401H - Epidemiology Methods I
- CHL 5411H - International Health
- CHL 5124H - Public Health Ethics

Religion
- RLG 2007H - Ethics, Society, and Technology
- RLG 2018H - Religion and Bioethics

Social Work
- SWK 6101H - Critical Evaluation of Social Work Practice
- SWK 6308H - Designing and Implementing Quantitative Social Work Research

Program Committee
- Miller, Fiona - PhD – Health Policy, Management & Evaluation
- Lemmens, Trudo - CandIur, LicIur, LLM – Law
- Upshur, Ross Edward - MA, MD, MSc, FRCP(C) – Medical Science
- Peter, Elizabeth - BA, BSN, MSN, PhD – Nursing Science
- Sepielli, Andrew - AB, JD, PhD – Philosophy
- Daar, Abdallah - DPhil, FRCP(Lond), FRCS, FRCS(C) – Public Health Sciences, Medical Science
- Nixon, Stephanie - BHSc(PT), BA, MSc, PhD – Rehabilitation Science
- Secker, Barbara – BA, MA, PhD – Rehabilitation Science
- Novak, David - AB, MHL, rabbinical diploma, PhD – Religion
- Newman, Peter - BA, MSW, MS, PhD – Social Work

www.sgs.utoronto.ca/calendar/2011-12
Biomedical Engineering

Lead Faculty
Applied Science and Engineering

Participating Degree Programs
Biochemistry – MSc, PhD
Biomedical Engineering – MASc, PhD
Chemical Engineering and Applied Chemistry – MASc, PhD
Chemistry – MSc, PhD
Dentistry – MSc, PhD
Electrical and Computer Engineering – MASc, PhD
Laboratory Medicine and Pathobiology – MSc, PhD
Materials Science and Engineering – MASc, PhD
Mechanical and Industrial Engineering – MASc, PhD
Medical Science – MSc, PhD
Pharmaceutical Sciences – MSc, PhD
Physics – MSc, PhD
Physiology – MSc, PhD
Rehabilitation Science – MSc, PhD

Overview
The graduate programs listed above participate in the Collaborative Program in Biomedical Engineering at the University of Toronto. This program offers the opportunity for research in biomedical engineering leading to master’s and doctoral degrees. The collaborative program is housed in the Institute of Biomaterials and Biomedical Engineering (IBBME). Biomedical engineering is a multidisciplinary field that integrates engineering with biology and medicine. It uses methods, principles, and tools of engineering, physical sciences, and mathematics to solve problems in the medical and life sciences. Biomedical engineering consists of the application of the concepts and methods of engineering and physics to the study of living systems, to the enhancement and replacement of those systems, to the design and construction of systems to measure basic physiological parameters, to the development of instruments, materials, and techniques for biological and medical practice, and to the development of artificial organs. By its nature the field is interdisciplinary and involves close collaboration between many departments of the University and associated hospitals.

Upon successful completion, the student receives the master’s or PhD degree in his or her departmental area as well as a notation on the transcript reading “Completed Collaborative Program in Biomedical Engineering”.

Contact and Address
Web: www.ibbme.utoronto.ca
Email: admissions.ibbme@utoronto.ca
Telephone: (416) 978-4841
Fax: (416) 978-4317

Collaborative Program in Biomedical Engineering
University of Toronto
Rosebrugh Building
Room 407, 164 College Street
Toronto, Ontario M5S 3G9
Canada

Master’s Level

Admission Requirements
• Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
• Applicants must be graduates in dentistry, engineering, engineering science, medicine, or one of the physical or biological sciences and must be accepted in the Collaborative Program in Biomedical Engineering through one of the collaborating graduate departments (home departments) listed above.

Program Requirements
Students register in the School of Graduate Studies through their home department; they will meet all respective degree requirements as described by the School of Graduate Studies and the Program Committee.

As part of these requirements:
• Engineering and physical science students will be required to take a biological sciences course such as JPB 1022H (or an equivalent).
• Biological science students will be expected to take a physical sciences course such as JPB 1055H (or an equivalent).
• Students will be expected to take BME 1450H Bioengineering Science and pursue a thesis topic relevant to biomedical engineering.
• Students registered in a graduate degree program involving research are required to participate in two seminar courses: one of BME 1010H or BME 1011H Graduate Seminar Series and JDE 1000H Ethics in Research.
• Students are required to have a supervisory committee approved by the program committee and consisting of a supervisor from IBBME, with a cross appointment in the home department, and other members from other collaborating departments as required.
The program of study for each Master of Applied Science or Master of Science degree student registered in the collaborative program must meet the requirements of the collaborating department and will normally comprise at least 2.0 full-course equivalents (FCEs) and a thesis in the biomedical field.

The examination committee will be constituted according to procedures in the home graduate department and will include a member from that collaborating department.

**Doctoral Level**

**Admission Requirements**

- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
- Applicants must be graduates in dentistry, engineering, engineering science, medicine, or one of the physical or biological sciences and must be accepted in the Collaborative Program in Biomedical Engineering through one of the collaborating graduate departments (home departments) listed above.
- Before PhD students are accepted, the Program Committee must be satisfied with the applicant’s ability to undertake advanced graduate studies.

**Program Requirements**

- A qualifying examination may be required by the collaborating department.
- Students admitted to the collaborative program who are admitted to a PhD program in their home unit will be subject to the requirements of the collaborating unit. The program of study for each PhD student registered in the Collaborative Program in Biomedical Engineering must be approved by the collaborating department and the Program Committee; the program will normally comprise at least 2.0 full-course equivalents (FCEs) and a thesis.
- Each PhD student is normally required to have a supervisory committee consisting of at least three persons, including a supervisor who has an appropriate graduate appointment and who is also a member of the graduate faculty in the home department. When appropriate, an additional member of the supervisory committee may be from outside the University of Toronto, with approval from the School of Graduate Studies.
- For doctoral degrees, the examination committee will be constituted according to procedures in the home graduate department and will include a member from that collaborating department.

**Course List**

Not all courses are offered every year. Students should contact the Institute office for details.

- **BME 1010H** Graduate Seminar
- **BME 1011H** Graduate Seminar
- **BME 1405H** Clinical Engineering Instrumentation I
- **BME 1436H** Clinical Engineering
- **BME 1439H** Clinical Engineering Instrumentation II
- **BME 1450H** Bioengineering Science
- **BME 1452H** Signal Processing for Bioengineering
- **BME 1453H** Cell and Tissue Engineering
- **BME 1454H** Regenerative Medicine: Fundamentals and Applications
- **BME 1456H** Changing Health Care Technologies, People, and Places
- **BME 1457H** Biomedical Nanotechnology
- **BME 1458H** Pattern Discovery Methods for Biomedical Engineering
- **BME 1459H** Protein Engineering
- **BME 4444Y+** Practice in Clinical Engineering
- **CHE 1107H** Applied Mathematics
- **CHE 1141H** Advanced Chemical Reaction Engineering
- **CHE 1143H** Transport Phenomena
- **CHE 1310H** Chemical Properties of Polymers
- **DEN 1070H** Advances in Dental Materials Science
- **DEN 1081H** Bone Interfacing Implants
- **ECE 1228H** Electromagnetic Theory
- **ECE 1352H** Analog Circuit Design I
- **ECE 1475H** Bio-Photonics
- **ECE 1502H** Information Theory
- **ECE 1511H** Signal Processing
- **ECE 1521H** Statistical Communication Theory
- **ECE 1647H** Nonlinear Control System Analysis
- **JCB 1349H** Molecular Assemblies: Structure/Function/Properties
- **JEB 1365H** Ultrasound: Theory and Applications in Biology and Medicine
- **JEB 1375H** Practical Optimization
- **JEB 1433H** Medical Imaging
- **JEB 1444H** Neural Engineering
- **JEB 1447H** Sensory Communications
- **JEB 1451H** Neural Bioelectricity
- **JNP 1017H+** Molecular and Biochemical Basis of Toxicology
- **JNP 1018H+** Current Topics in Molecular and Biochemical Toxicology
- **JNR 1444Y** Fundamentals of Neuroscience: Cellular and Molecular
- **JNS 1000Y** Fundamentals of Neuroscience: Systems and Behaviour
- **JPB 1022H** Human Physiology as Related to Biomedical Engineering
- **JTC 1135H** Applied Surface Chemistry
- **JTC 1331H** Biomaterials Science
- **MBP 1007H** Fundamentals in Molecular and Cell Biology I
- **MBP 1008H** Fundamentals in Molecular and Cell Biology II

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Collaborative Programs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBP 1022H</td>
<td>Advanced Cell Biology for Physical Scientists</td>
</tr>
<tr>
<td>MIE 1001H</td>
<td>Dynamics II</td>
</tr>
<tr>
<td>MIE 1062H</td>
<td>Robot Kinematics and Dynamics</td>
</tr>
<tr>
<td>MIE 1101H</td>
<td>Thermodynamics II</td>
</tr>
<tr>
<td>MIE 1201H</td>
<td>Fluid Mechanics III</td>
</tr>
<tr>
<td>MMS 1026H</td>
<td>Analytical Electron Microscopy</td>
</tr>
<tr>
<td>PHM 1109H</td>
<td>Recent Developments in Dosage Form</td>
</tr>
<tr>
<td>PHM 1110H</td>
<td>Chemical Basis of Drug Metabolism</td>
</tr>
<tr>
<td>PHM 1117H</td>
<td>DNA-Drug Interactions</td>
</tr>
<tr>
<td>PSL 1432H</td>
<td>Theoretical Physiology</td>
</tr>
<tr>
<td>PSL 1052H</td>
<td>Fundamentals of Ion Channel Function</td>
</tr>
<tr>
<td>REH 1100H</td>
<td>Theory and Research in Rehabilitation</td>
</tr>
</tbody>
</table>

Program Committee

Rini, James - PhD – Biochemistry
Chan, Warren - BSc, PhD – Biomedical Engineering
Dolan, Alf - BSc, MSc – Biomedical Engineering
Popovic, Milos - MSc, MASc, PhD – Biomedical Engineering
Yip, Christopher - BASc, MSc, PhD, PEng – Biomedical Engineering (Associate Director; Coordinator)
Papangelakis, Vladimiro G. - Dipl Eng, MEng, PhD – Chemical Engineering & Applied Chemistry
Donaldson, James - PhD – Chemistry
Santerre, Paul - BSc, MScEng, PhD – Dentistry
Wong, Willy - BSc, MSc, PhD – Electrical & Computer Engineering
Bardakjian, Berj - BSc, BEd, MASc, PhD, PEng – Electrical & Computer Engineering
Elsholtz, Harry - BSc, MSc, PhD – Laboratory Medicine & Pathobiology
Wang, Zhirui - BEng, MSc, PhD – Materials Science & Engineering
Sullivan, Pierre - BSME, MSME, PhD, PEng – Mechanical & Industrial Engineering
Liu, Mingyao - MSc, MD – Medical Science
Lee, Ping - PhD – Pharmaceutical Sciences
Pang, K Sandy - BScPhm, PhD – Pharmaceutical Sciences
Shepherd, Theodore - BSc, PhD – Physics
Chariton, Milton - PhD – Physiology
MacDonald, John - BSc, PhD – Physiology
Biomedical Toxicology

Lead Faculty
Medicine

Participating Degree Programs
Ecology and Evolutionary Biology – MSc, PhD
Laboratory Medicine and Pathobiology – MSc, PhD
Medical Science – MSc, PhD
Nutritional Sciences – MSc, PhD
Pharmaceutical Sciences – MSc, PhD
Pharmacology – MSc, PhD

Overview
The Collaborative Program in Biomedical Toxicology provides graduate students with a unique opportunity to gain breadth and depth of knowledge in biomedical toxicology beyond their thesis research area. This program aims to prepare participants for careers related to toxicology. It emphasizes the development of critical thinking and communication skills in addition to acquiring greater knowledge of basic principles and specific aspects of biomedical toxicology.

The graduate programs listed above participate in this collaborative program. Students may pursue an MSc or PhD degree. Graduate units participating in the program contribute graduate courses, provide facilities, and provide supervision for graduate research.

Graduate students from departments other than the participating units listed who are interested in pursuing a program in toxicology should contact the Director of the Collaborative Program in Biomedical Toxicology and the graduate advisor(s) in their home department to discuss the possibility. Detailed program information is available on the collaborative program’s website and from the Department of Pharmacology and Toxicology.

Upon successful completion, the student receives, in addition to the MSc or PhD degree in their departmental area, a notation on the transcript reading “Completed MSc Collaborative Program in Biomedical Toxicology” or “Completed PhD Collaborative Program in Biomedical Toxicology”.

Contact and Address
Web: www.pharmtox.utoronto.ca/programs/cpbt.htm
Email: pharmtox.dept@utoronto.ca
Telephone: (416) 978-5244
Fax: (416) 978-6395

Collaborative Program in Biomedical Toxicology
Department of Pharmacology and Toxicology
University of Toronto
Medical Sciences Building
Room 4207, 1 King’s College Circle
Toronto, Ontario M5S 1A8
Canada

Master’s Level

Admission Requirements
• Applicants who wish to enrol in the collaborative program must first apply to and be accepted by one of the participating home departments under its regulations. Once students have been admitted to their home department, they should register in the Collaborative Program in Biomedical Toxicology by contacting the Program Director.

Program Requirements
• Complete JNP 1014Y Interdisciplinary Toxicology and JNP 1016H Graduate Seminar in Toxicology.
• Attend a minimum of six academic seminars related to toxicology during the master’s program.
• Complete a research thesis or project as required by the home department. It is understood that the research topic will be in the area of biomedical toxicology.

Doctoral Level

Admission Requirements
• Applicants who wish to enrol in the collaborative program must first apply to and be accepted by one of the participating home departments under its regulations. Once students have been admitted to their home department, they should register in the Collaborative Program in Biomedical Toxicology by contacting the Program Director.

Program Requirements
• Complete JNP 1014Y Interdisciplinary Toxicology; JNP 1016H Graduate Seminar in Toxicology, plus a 0.5 full-course equivalent (FCE) in the area of toxicology (approved by the Director of the collaborative program). The home department and the Director of the Collaborative Program in Biomedical Toxicology will decide whether these courses are in addition to home departmental requirements or substitutions for home departmental requirements.
• Attend a minimum of 12 academic seminars related to toxicology during the doctoral program.
• Complete a research thesis or project as required by the home department. It is understood that the research topic will be in the area of biomedical toxicology.

Course List
JNP 1014Y Interdisciplinary Toxicology
JNP 1016H Graduate Seminar in Toxicology
Collaborative Programs

Program Committee
Jackson, Donald - BSc, MSc, PhD – Ecology & Evolutionary Biology
Elsholtz, Harry - BSc, MSc, PhD – Laboratory Medicine & Pathobiology
Liu, Mingyao - MD, FRCP(C) – Medical Science
Ward, Wendy - BASc, MSc, PhD – Nutritional Sciences
O’Brien, Peter John - BSc, MSc, PhD – Pharmaceutical Sciences
Grant, Denis - BSc, PhD – Pharmacology & Toxicology
Riddick, David - BSc, PhD – Pharmacology & Toxicology
Woodland, Cindy - BSc, MSc, PhD – Pharmacology & Toxicology (Director)
Biomolecular Structure

Lead Faculty
Medicine

Participating Degree Programs
- Biochemistry – PhD
- Chemistry – PhD
- Medical Biophysics – PhD
- Molecular Genetics – PhD

Overview
The graduate program in Biomolecular Structure is a collaborative program involving the graduate programs listed above. The program is open to PhD students wishing to train under the supervision of one of the participating investigators. The program will appeal to students from a wide variety of backgrounds with an interest in studying the structure and function of biomolecules.

Contact and Address
Web: http://biochemistry.utoronto.ca/BMS
Email: james.rini@utoronto.ca
Telephone: (416) 978-0557
Fax: (416) 978-6885

J. M. Rini, Coordinator
Collaborative Program in Biomolecular Structure
Department of Molecular Genetics
University of Toronto
Medical Sciences Building
Room 5360, 1 King’s College Circle
Toronto, Ontario M5S 1A8
Canada

Doctoral Level

Admission Requirements
- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments. Applicants must first be admitted to one of the collaborating graduate units before applying to the collaborative program.

Program Requirements
- Complete JBB 2026H Protein Structure, Folding and Design and an additional 0.5 full-course equivalent (FCE) in a specialized topic.
- Participate in the Biomolecular Structure Program seminar series.

Course List
- Not all courses will be offered every year. Departments should be consulted each year to confirm course offerings.
  - JBB 2026H Protein Structure, Folding and Design
  - JBB 2025H Protein Crystallography

Program Committee
Forman-Kay, Julie - BSc, PhD – Biochemistry
Woolley, G Andrew - BSc, PhD – Chemistry
Rose, David - BA, PhD – Medical Biophysics
Kay, Lewis - BSc, PhD, Canada Research Chair – Molecular Genetics
Rini, James - BSc, PhD – Molecular Genetics (Coordinator)
Collaborative Programs

Book History and Print Culture

Lead Faculty
Arts and Science

Participating Degree Programs
Classics – MA, PhD
Comparative Literature – MA, PhD
East Asian Studies – MA, PhD
English – MA, PhD
French Language and Literature – MA, PhD
History – MA, PhD
History and Philosophy of Science and Technology – MA, PhD
History of Art – MA, PhD
Information – MI
Information Studies – PhD
Italian Studies – MA, PhD
Medieval Studies – MA, PhD
Museum Studies – MMSt
Music – MA, PhD
Religion – MA, PhD

Overview

Histoire du livre, History of the Book, Textual Studies, Print Culture, Sociology of the Text—all these names have been used to describe a growing international academic movement. The graduate programs listed above, in conjunction with Massey College, sponsor an interdisciplinary program in Book History and Print Culture (BHPC) in which the rich physical and human resources of the University of Toronto are brought to bear on multiple aspects of the creation, transmission, and reception of the written word. BHPC brings together graduate students from a variety of disciplines based on their common research interest in the physical, cultural, and theoretical aspects of the book. As a collaborative program, it is designed to augment the learning and research potential of existing master’s and doctoral programs by pooling the expertise of U of T faculty members in this field from several disciplines.

Students register first for a master’s or doctoral degree in their home unit and then apply to the collaborative program. If they satisfy the requirements of both programs, they receive their degree with the notation “Collaborative Program in Book History and Print Culture” on the transcript.

Contact and Address
Web: http://bookhistory.fis.utoronto.ca
Email: book.history@utoronto.ca
Telephone: (416) 946-3560
Fax: (416) 978-1759

Dan White, Director
Collaborative Program in Book History and Print Culture
University of Toronto
Massey College
4 Devonshire Place
Toronto, Ontario M5S 2E1
Canada

Master’s Level

Admission Requirements

- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and one of the participating degree programs (home unit). Applicants to the collaborative program write to the Director giving information about their background and relevant interests, identifying the degree and home unit for which they are applying, and outlining a proposed program of study by April 1 for September admission. Applicants need not wait for a final decision from the home unit before applying to the collaborative program. Academic transcript(s) should be included in the application; unofficial transcripts are acceptable and may be sent either as scans attached to your email or as printouts from a student web service mailed to the program office. Advice is available from the Director and the Program Committee.

- Applications from the participating units have priority in admissions. If there is space in the program, students from other units may apply; they should consult the graduate coordinator in their home unit and the Director of the BHPC program. Since course requirements vary from unit to unit, it is essential that there be close consultation between the collaborative program and the home unit at the time of the application.

Program Requirements

- Students must fulfil the degree requirements of the unit in which they are enrolled.
- BKS 1001H Introduction to Book History (0.5 FCE), and BKS 1002H Book History in Practice (0.5 FCE), both of which should be taken in the first year of study.
- At least 1.0 FCE in additional courses related to book history and print culture. The additional 1.0 FCE will come from our roster of cross-listed courses, though students may substitute other courses with the approval of the Director. Students are encouraged, if possible, to take courses outside their home unit.
- Depending on the regulations of the home unit, a master’s thesis in the area of book history and print
Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and one of the participating degree programs (home unit). Applicants to the collaborative program write to the Director giving information about their background and relevant interests, identifying the degree and home unit for which they are applying, and outlining a proposed program of study by April 1 for September admission. Applicants need not wait for a final decision from the home unit before applying to the collaborative program. Academic transcript(s) should be included in the application; unofficial transcripts are acceptable and may be sent either as scans attached to your email or as printouts from a student web service mailed to the program office. Advice is available from the Director and the Program Committee.

- Applications from the participating units have priority in admissions. If there is space in the program, students from other units may apply; they should consult the graduate coordinator in their home unit and the Director of the BHPC program. Since course requirements vary from unit to unit, it is essential that there be close consultation between the collaborative program and the home unit at the time of the application.

Program Requirements

- Students must fulfil the degree requirements of the unit in which they are enrolled. Their program of study must also be approved by the BHPC Program Committee.

- The program of study includes BKS 1001H Introduction to Book History (if that course has not been taken previously at the master’s level), BKS 2000H Advanced Seminar in Book History and Print Culture, and BKS 2001H Individual Practicum in Book History and Print Culture. BKS 1001H must be taken as a prerequisite or co-requisite to BKS 2000H and BKS 2001H.

- The dissertation topic will be in the area of book history and print culture. The advisory committee will include at least one faculty member affiliated with BHPC, and students are encouraged, but not required, to seek representation on the committee from outside the home unit.

- The program may be completed on a flexible-time basis only by Faculty of Information students registered for the Information flexible-time PhD.

Course List

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BKS 1001H</td>
<td>Introduction to Book History</td>
</tr>
<tr>
<td>BKS 1002H</td>
<td>Book History in Practice</td>
</tr>
<tr>
<td>BKS 2000H</td>
<td>Advanced Seminar in Book History and Print Culture</td>
</tr>
<tr>
<td>BKS 2001H</td>
<td>Individual Practicum in Book History and Print Culture</td>
</tr>
</tbody>
</table>

For further details and for listings of appropriate courses in various graduate units, see http://bookhistory.fis.utoronto.ca.

Program Committee

Galbraith, David - MA, PHD – English (Director)
White, Dan - BA, MA, PhD – English
Galey, Alan - BA, MA, PhD – Information
Master’s Delegate - BA, MS – Massey College
Glinoer, Anthony - MA, PhD – French
McGowan, Mark - BA, MA, PhD – History, Book & Media Studies

Master’s Student Representative
Doctoral Student Representative
**Cardiovascular Sciences**

**Lead Faculty**
Medicine

**Participating Degree Programs**
- Biomedical Engineering – MSc, PhD
- Dentistry – MSc, PhD
- Exercise Sciences – MSc, PhD
- Health Policy, Management and Evaluation – MSc, PhD
- Laboratory Medicine and Pathobiology – MSc, PhD
- Medical Biophysics – MSc, PhD
- Medical Science – MSc, PhD
- Nursing Science – MN, PhD
- Pharmacology – MSc, PhD
- Pharmaceutical Sciences – MSc, PhD
- Physiology – MSc, PhD
- Public Health Sciences – MSc, PhD
- Rehabilitation Science – MSc, PhD

**Overview**
The graduate programs listed above, together with the clinical departments of Anesthesia, Medicine, and Surgery, participate in the graduate Cardiovascular Sciences Collaborative Program at the University of Toronto. Units participating in the program contribute graduate courses and provide facilities and supervision for graduate research. Applicants must first be accepted by one of the participating graduate units and then complete a separate application to register in the collaborative program. Students follow a program of study acceptable to both the participating unit and the Cardiovascular Sciences Program. Upon successful completion of the requirements, students receive, in addition to the master’s or doctoral degree in their home graduate unit, a separate certificate from the program, and the notation “Completed Collaborative Program in Cardiovascular Sciences” on their transcript.

**Contact and Address**
Web: www.cscp.utoronto.ca
Email: cv.program@utoronto.ca
Telephone: (416) 978-0746
Fax: (416) 946-5713
Cardiovascular Sciences Collaborative Program
University of Toronto
FitzGerald Building
Room 83E, 150 College Street
Toronto, Ontario M5S 3E2
Canada

**Master's Level**

**Admission Requirements**
- normally, an A- average in previous coursework (publications and research work may be considered for mature students)
- student has already been accepted into a home graduate unit that participates in the Cardiovascular Sciences Collaborative Program
- acceptance by a supervisor who is a faculty member of the Cardiovascular Sciences Collaborative Program
- research area falls within mandate of the Cardiovascular Sciences Collaborative Program

**Program Requirements**
- Students must meet the requirements of their home graduate unit in terms of coursework and thesis work.
- Write a thesis under the supervision of a faculty member of the collaborative program. The thesis topic will be in the area of cardiovascular sciences. An unbound copy of the accepted thesis in final form must be submitted to the Cardiovascular Sciences Collaborative Program.
- To qualify for the Cardiovascular Sciences specialization, students obtaining their master’s degree must complete 0.5 full-course equivalent (FCE) in an approved cardiovascular course listed under approved “Courses of Instruction”.
- Attend and make a presentation, demonstrating excellence in cardiovascular research, at the annual Student Research Day.

**Doctoral Level**

**Admission Requirements**
- normally, an A- average in previous coursework (publications and research work may be considered for mature students)
- student has already been accepted into a home graduate unit that participates in the Cardiovascular Sciences Collaborative Program
- acceptance by a supervisor who is a faculty member of the Cardiovascular Sciences Collaborative Program
- research area falls within mandate of the Cardiovascular Sciences Collaborative Program

**Program Requirements**
- Students must meet the requirements of their home graduate unit in terms of coursework and thesis work.
Write a thesis under the supervision of a faculty member of the collaborative program. The thesis topic will be in the area of cardiovascular sciences. An unbound copy of the accepted thesis in final form must be submitted to the Cardiovascular Sciences Collaborative Program.

To qualify for the Cardiovascular Sciences specialization, students obtaining their doctoral degree must have 1.0 full-course equivalent (FCE; 1.0 FCE = two half-courses) chosen from among the following four courses: JCV 3060H, JCV 3061H, JCV 3062H, JCV 3063H.

Attend and make a presentation, demonstrating excellence in cardiovascular research, at the annual Student Research Day.

Course List
Cardiovascular sciences courses offered by the participating units are listed below. Not all courses are offered each year. For course details, consult the program’s website, www.cscp.utoronto.ca.

EXS 5508H Cardiovascular Disease and Exercise
JCV 1060H Developmental Cardiovascular Physiology
JCV 3060H Advanced Topics in Cardiovascular Sciences—Molecular Biology and Heart Signal Transduction
JCV 3061H Advanced Topics in Cardiovascular Sciences—Hormones
JCV 3062H Advanced Topics in Cardiovascular Sciences—Heart Function
JCV 3063H Advanced Topics in Cardiovascular Sciences—Vascular
JEB 1365H Ultrasound: Theory and Applications in Biology and Medicine
JTC 1331H Biomaterials Science
LMP 1015H Vascular Pathobiology
LMP 1504H Cell and Molecular Biology of Cardiovascular Diseases
PSL 1462H Molecular Aspects of Cardiac Function

Program Committee
Steinman, David - BASc, MASc, PhD – Biomedical Engineering
Thomas, Scott - BSc, MSc, PhD – Exercise Sciences
Rand, Margaret - BSc, PhD – Laboratory Medicine & Pathobiology
Wright, Graham - BASc, MASc, PhD – Medical Biophysics
Li, Ren-Ke - BSc, PhD, MD, FRCSC – Medical Science
Wittnich, Carin - MSc, DVM – Medical Science, Physiology (Director)
Clarke, Sean - RN, PhD, FAAN – Nursing Science
Wu, Xiao Yu - BSc, MScEng, PhD – Pharmaceutical Sciences
Parker, John - MD – Pharmacology
Heximer, Scott - PhD, Canada Research Chair – Physiology

Silverman, Frances - BSc, MSc, PhD – Public Health Sciences
Brooks, Dina - BSc(PT), MSc, PhD – Rehabilitation Science
Student Representatives
Collaborative Programs

Community Development

Lead Faculty
Architecture, Landscape and Design

Participating Degree Programs
Adult Education and Community Development – MA, MEd
Counselling Psychology – MA, MEd
Nursing Science – MN
Planning – MScPI
Public Health Sciences – MPH
Social Work – MSW

Overview
The Collaborative Program in Community Development provides students with a multidisciplinary graduate education in community development. Community development involves working with community members and groups to effect positive change in the social, economic, organizational, or physical structures of a community that improve both the welfare of community members and the community’s ability to direct its future.

Students must first apply to and register in one of the participating master’s degree programs listed above, and then apply to the collaborative program. Students must follow a course of study acceptable to both the home unit and the collaborative program. Upon completion of both programs, the student receives the degree from their home unit and the following notation on their transcript: “Completed the Collaborative Program in Community Development”.

Contact and Address
Web: www.urbancentre.utoronto.ca/communitydevelopment.html
Email: urban.centre@utoronto.ca
Telephone: (416) 978-2072
Fax: (416) 978-7162

Collaborative Program in Community Development
Centre for Urban and Community Studies
University of Toronto
Suite 400, 455 Spadina Avenue
Toronto, Ontario M5S 2G8
Canada

Master’s Level
Admission Requirements
- Collaborative programs are administered under the auspices of the School of Graduate Studies.
- Applicants must be accepted for admission to a participating graduate unit and comply with the admission procedures of that unit before applying to the Collaborative Program in Community Development.
- Applicants must submit the following to the Program Committee of the Collaborative Program in Community Development:
  - a copy of the letter accepting you into one of the participating graduate units
  - a resume or curriculum vitae
  - a letter explaining how your program of study, your specific interests, and your career goals relate to community development (i.e. why you want to enrol in the Collaborative Program in Community Development); maximum length: 500 words; include reference to any relevant experience (volunteer, work, education, etc.)

Program Requirements
- Students must register in the master’s degree program through one of the participating home graduate units. They must meet all respective degree requirements of the School of Graduate Studies and their participating home graduate unit.
- To fulfill the requirements of the Collaborative Program in Community Development, they must complete the following:
  - the core course UCS 1000H Community Development: Theory and Practice
  - an additional 1.0 full-course equivalent (FCE) in the subject area of the collaborative program, to be approved by the Collaborative Program Director, of which at least 0.5 FCE must be external to the home graduate unit
  - participation in a non-credit coordinating seminar on community development
  - where required by the home degree program, a thesis or the major research paper (as designated by the home degree program) on a topic related to community development; a member of the thesis committee or the reader of the major research paper must be a faculty member associated with the collaborative program
- Normally, the required courses listed below are taken as options within regular departmental or faculty degree requirements, not as additional courses.

Course List
Core Course
UCS 1000H Community Development: Theory and Practice

Students must take an additional 1.0 FCE in the subject area of the collaborative program, to be approved by the Collaborative Program Director. The
following is a list of the currently approved courses; list is reviewed annually and posted on the program website.

**Adult Education**

- **AEC 1102H** Community Development: Innovative Models
- **AEC 1104H** Community Education and Organizing
- **AEC 1131H** Special Topics in Adult Education
- **AEC 3119H** Global Perspectives on Feminist Education, Community Development and Community Transformation
- **AEC 3131H** Special Topics in Adult Education
- **AEC 3182H** Citizenship Learning and Participatory Democracy

**Counselling Psychology**

- **AEC 1275H** Special Topics in Counselling Psychology
- **AEC 1409H** Creative Empowerment Work with the Disenfranchised: Healing and Collective Action

**Planning**

- **JPG 1421H** Health in Urban Environments
- **PLA 1503H** Planning and Social Policy
- **JPG 1507H** Housing and Housing Policy
- **JPG 1508H** Planning with the Urban Poor in Developing Countries
- **JPG 1512H** Place, Politics and the Urban
- **JPG 1615H** Planning the Social Economy

**Public Health Sciences**

- **CHL 5801H** Health Promotion
- **CHL 7001H** Directed Reading in an Approved Field of Community Health

**Social Work**

- **SWK 4210H** Promoting Empowerment
- **SWK 4306H** Process of Social Exclusion, Marginalization, and Resistance
- **SWK 4422H** Social Housing and Homelessness

**Program Committee**

- Schugurensky, Daniel - BEd, MEd, PhD – Adult Education & Counselling Psychology
- Stewart, Suzanne - BA, MA, PhD – Adult Education & Counselling Psychology
- Wakefield, Sarah - BA, MA, PhD – Geography
- Poland, Blake - BA, MA, PhD – Public Health Sciences
- Hulchanski, J David - BA, MSc(Pl), PhD, MCIP, Chow Yei Ching Social Work Chair in Housing – Social Work
Comparative, International and Development Education

Lead Faculty
Ontario Institute for Studies in Education

Participating Degree Programs
Adult Education and Community Development – MA, MEd, EdD, PhD
Curriculum Studies and Teacher Development – MA, MEd, PhD
Educational Administration – MA, MEd, EdD, PhD
Higher Education – MA, MEd, EdD, PhD
History and Philosophy of Education – MA, MEd
Second Language Education – MA, MEd, EdD, PhD
Sociology in Education – MA, MEd, EdD, PhD

Overview
Comparative, International and Development Education (CIDE) is one of the world’s largest, most diverse and dynamic graduate programs in the field of comparative education. Research interests span an exciting range of theoretical and practical issues, from the study of ethnicity and identity to the issues of globalization and global governance, from non-formal learning and citizenship education to concrete problems of educational reform, social equality, language education, conflict resolution and community development. We approach these issues from a range of theoretical and disciplinary frames: more traditional, sociological, historical, and philosophical approaches are taught alongside vibrant interpretations of feminist, critical, post-structuralist and cultural theories.

The CIDE program will interest Canadian students who wish to work and live in other cultures. It will also interest international students who wish to relate their studies at OISE/UT directly to their own societies and learning systems. Students can take courses in such fields as political science, feminist studies, sociology, and geography. The CIDE program is linked with events and programs at the Munk School of Global Affairs at the University of Toronto.

Successful students receive a notation on their transcript identifying their specialization in Comparative, International and Development Education.

Contact and Address
Web: www.oise.utoronto.ca/cidec
Email: cidec.oise@utoronto.ca
Telephone: (416) 978-0892
Fax: (416) 926-4749

Master’s Level

Admission Requirements
• Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
• Applicants should apply to the appropriate degree program in one (or more) of the collaborating departments that corresponds most closely to their general background and interests.
• Applicants to the CIDE Collaborative Program are normally expected to have had at least one year of international or cross-cultural experience.
• Prospective applicants should review the detailed information about the CIDE program available on the CIDE web page at www.oise.utoronto.ca/cidec.

Program Requirements
• Individual student programs of study must meet the requirements of both the home department and the collaborative program. Normally, a careful selection of courses will satisfy this requirement without any additional course load.
• Courses as follows:
  o 0.5 full-course equivalent (FCE) required introduction: CIE 1001H Introduction to Comparative, International and Development Education
  o 0.5 core FCE CIDE master’s level course
  o 1.0 FCE (equivalent to two half-courses) other core CIDE or affiliated master’s-level courses
• Regular participation in and attendance at the CIDE Seminar Series. Participation at a minimum of five seminars required.
• In master’s programs requiring a major research paper or a thesis, the topic must relate to and demonstrate master’s-level understanding of the research/theory base of CIDE. Participating CIDE faculty and the home department must be represented on the thesis committee.
Collaborative Programs

Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments. Applicants should apply to the appropriate degree program in one (or more) of the collaborating departments that corresponds most closely to their general background and interests.
- Applicants to the CIDE Collaborative Program are normally expected to have had at least one year of international or cross-cultural experience.
- Prospective applicants should review the detailed information about the CIDE program available on the CIDE web page at www.oise.utoronto.ca/cidec. They are strongly advised to contact one of the core CIDE faculty members in their home department to discuss their research interests and goals.

Program Requirements

- Individual student programs of study must meet the requirements of both the home department and the collaborative program. Normally, a careful selection of courses will satisfy this requirement without any additional course load.
- Courses as follows:
  - 0.5 full-course equivalent (FCE) required introduction: CIE 1001H Introduction to Comparative, International and Development Education, if not already taken, or equivalent if transferring from another university.
  - 0.5 FCE core CIDE doctoral level course
  - 1.0 FCE (equivalent to two half-courses) other core CIDE or affiliated doctoral-level courses
  - Regular participation in and contribution to the CIDE Seminar Series (at least one major presentation to the seminar group related to the student’s thesis research/development work in addition to regular participation). Participation at a minimum of five seminars required.
  - Completion of a thesis that contributes to the research/theory base of CIDE. Participating CIDE faculty and the home department must be represented on the thesis committee.

Course List

Not all courses are offered each year. Refer to www.oise.utoronto.ca/cidec for current course offerings.

Core Courses

Comparative Education
- CIE 1001H Introduction to Comparative, International and Development Education
- CIE 1002H Practicum for Comparative, International and Development Education

Adult Education and Counselling Psychology
- AEC 1114H Comparative and International Perspectives in Adult Education
- AEC 1146H Women, War and Learning
- AEC 3104H Adult Education and Marxism
- AEC 3180H Global Governance and Educational Change: the Politics of International Cooperation in Education
- AEC 3182H Citizenship Learning and Participatory Democracy

Curriculum, Teaching and Learning
- CTL 1037H Comparative and Cross-Cultural Perspectives
- CTL 1060H Education and Social Development
- CTL 1312H Democratic Citizenship Education
- CTL 1318H Teaching Conflict and Conflict Resolution
- CTL 1864H Methodologies for Comparing Educational Systems

Sociology and Equity Studies in Education
- SES 1924H Modernization, Development, and Education in African Contexts
- SES 1927H Migration and Globalization
- SES 3911H Cultural Knowledges, Representation and Colonial Education

Theory and Policy Studies in Education
- TPS 1016H School Program Development and Implementation
- TPS 1019H Diversity and the Ethics of Educational Administration
- TPS 1807H Strategic and Long-Range Planning for Postsecondary Systems
- TPS 1825H Comparative Education: Theory and Methodology
- TPS 1826H Comparative Higher Education
- TPS 3810H International Academic Relations

Affiliated Courses

The list of CIDE affiliated courses may change. Please refer to www.oise.utoronto.ca/cidec for current list.

Adult Education and Counselling Psychology
- AEC 1102H Community Development: Innovative Models
Collaborative Programs

AEC 1145H  Participatory Research in the Community and the Workplace
AEC 1180H  Aboriginal World Views: Implications for Education
AEC 1181H  Embodied Learning and Qi Gong
AEC 1131H  Special Topics in Adult Education
AEC 3103H  Teaching about Global and Social Issues
AEC 3119H  Global Perspectives on Feminist Education, Community Development, and Community Transformation
AEC 3132H  Special Topics in Women in Development and Community Transformation
AEC 3140H  Post-Colonial Relations and Transformative Education

Curriculum, Teaching and Learning
CTL 1033H  Multicultural Perspectives in Teacher Development: Reflective Practicum
CTL 1816H  Official Discourses and Minority Education (Doctoral students only)
CTL 3008H  Critical Pedagogy, Language, and Cultural Diversity
CTL 3015H  Seminar in Second-Language Literacy Education
CTL 3018H  Language Planning and Policy (Politique et aménagement linguistique)
CTL 3024H  Second Language Teacher Education

Sociology and Equity Studies in Education
SES 1912H  Foucault and Research in Education and Culture: Discourse, Power and the Subject
SES 1921Y  The Principles of Anti-Racism Education
SES 1922H  Sociology of Race and Ethnicity
SES 1925H  Indigenous Knowledge and Decolonization: Pedagogical Implications
SES 1956H  Social Relations of Cultural Production in Education
SES 2999H  Special Topics in Sociological Research in Education (as designated by CIDE)
SES 3910H  Advanced Seminar on Race and Anti-Racism Research Methodology in Education
SES 3933H  Theorizing Transnationality: Feminist Perspectives

Theory and Policy Studies in Education
TPS 1020H  Teachers and Educational Change
TPS 1027H  The Search for Educational Quality and Excellence in a Global Economy
TPS 1029H  Special Applications of the Administrative Process: Improving Student Outcomes on a System Wide Scale
TPS 1047H  Managing Changes in Classroom Practice
TPS 1400H  The Origins of Modern Schooling I: Problems in Education Before the Industrial Revolution
TPS 1420H  European Popular Culture and the Social History of Education I
TPS 1422H  Education and Family Life in the Modern World I
TPS 1430H  Gendered Colonialisms, Imperialisms and Nationalisms in History
TPS 1447H  Technology in Education: Philosophical Issues
TPS 1448H  Popular Culture and the Social History of Education II
TPS 1803Y  Recurring Issues in Postsecondary Education
TPS 1806H  Systems of Higher Education
TPS 1832H  East Asian Higher Education
TPS 2006H  Educational Finance and Economics (Students who have taken TPS 1017H or TPS 1841H are not eligible to take TPS 2006H)
TPS 3029H  Special Topics in Educational Administration: Advanced Topics for Educational Administration
TPS 3041H  Administrative Theory and Educational Problems II: Doctoral Seminar on Policy Issues in Education
TPS 3045H  Educational Policy and Program Evaluation

Geography
JPG 1509H  Feminism, Postcoloniality and Development

Political Science
JPE 2408Y  Political Economy of International Development

Program Committee
Mojab, Shahrzad – MEd, PhD – Adult Education & Counselling Psychology
Mundy, Karen – BA, MA, PhD, Canada Research Chair - Adult Education & Counselling Psychology (Director)
Bickmore, Kathy – BA, MA, PhD – Curriculum, Teaching & Learning
Cumming, Alister – BA, MA, PhD – Curriculum, Teaching & Learning
Evans, Mark – PhD – Curriculum, Teaching & Learning, (Associate Dean, Teacher Education)
Farrell, Joseph – BSc, PhD – Curriculum, Teaching & Learning
Feuerverger, Grace – BA, MA, PhD – Curriculum, Teaching & Learning
Masemann, Vandra Lea – PhD – Curriculum, Teaching & Learning
Niyozov, Sarfaroz – BA, MA, PhD – Curriculum, Teaching & Learning (Co-Director)
Dei, George J. S. – BA, MA, PhD – Sociology & Equity Studies in Education
Olson, Paul – BA, MA – Sociology & Equity Studies in Education
Anderson, Stephen – PhD – Theory & Policy Studies in Education
Hayhoe, Ruth – BA, MA, PhD – Theory & Policy Studies in Education
Joshee, Reva – BA, MA, PhD – Theory & Policy Studies in Education
Developmental Biology

Lead Faculty
Medicine

Participating Degree Programs
Biochemistry – MSc, PhD
Cell and Systems Biology – MSc, PhD
Immunology – MSc, PhD
Laboratory Medicine and Pathobiology – MSc, PhD
Molecular Genetics – MSc, PhD
Physiology – MSc, PhD

Overview
The graduate programs listed above participate in the Collaborative Program in Developmental Biology. The objectives of the program are to:
1. promote and foster excellence in developmental biology research in Toronto.
2. provide a means for MSc and PhD graduate students working on developmental biology projects to be exposed to a broad range of issues and approaches in modern developmental biology.
3. provide a single comprehensive advanced PhD-level graduate course to complement a number of introductory courses provided by different departments.
4. provide a forum for interaction between investigators in Developmental Biology in different departments via participation in student seminars, supervisory committees, journal clubs, retreats and seminars/symposia.

Upon successful completion of the MSc or PhD requirements of the host department and the program, students receive the notation “Completed Program in Developmental Biology” on their transcript.

Contact and Address
Web: www.utoronto.ca/devbiol
Email: dev.bio@utoronto.ca
Telephone: (416) 586-8267
Fax: (416) 586-8857

Dr. Helen McNeill, Director
Collaborative Program in Developmental Biology
Department of Molecular Genetics
University of Toronto
Room 884, 600 University Avenue
Toronto, Ontario M5G 1X5
Canada

Master's Level
Admission Requirements
- Students who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.

Program Requirements
Students must:
- be registered in the master’s program of one of the participating departments and must be undertaking research in developmental biology under the supervision of a member of the collaborative program.
- complete all degree program requirements of the participating department. In addition, they must complete the interdepartmental course JDB 1024Y.
- complete a MSc thesis in the topic area of developmental biology.

Doctoral Level
Admission Requirements
- Students who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
- Prospective students should contact the Collaborative Program Director for additional details on admission procedures and course requirements.

Program Requirements
Students must:
- meet all respective degree requirements of the School of Graduate Studies, the home department, and the collaborative program.
- be registered in the doctoral program of one of the host departments and must be undertaking research in developmental biology under the supervision of a member of the program.
- complete all degree requirements of the participating department. In addition, they must complete the interdepartmental course JDB 1025H and the seminar course JDB 1026Y. These courses may be taken in place of some host department courses.
- complete a PhD thesis in the topic area of developmental biology.

Course List
The following courses are offered by the program every year:
JDB 1024Y  Topics in Developmental Biology
Collaborative Programs

JDB 1025H Developmental Biology
JDB 1026Y Student Seminars in Developmental Biology

Program Committee
Biechele, Steffen – Molecular Genetics (Student Representative)
Borovina, Antonia – Molecular Genetics (Student Representative)
Harris, Tony - PhD – Cell & Systems Biology
Zuniga-Pflucker, JC - PhD – Immunology
Brill, Julie - PhD – Molecular Genetics
McNeill, Helen - PhD – Molecular Genetics (Director)
Roy, Peter - PhD – Molecular Genetics
Zhen, Mei - PhD – Molecular Genetics

Course that may continue over a program. The course is graded when completed.
Diaspora and Transnational Studies

Lead Faculty
Arts and Science

Participating Degree Programs
- Anthropology – MA, MSc, PhD
- Cinema Studies – MA
- Comparative Literature – MA, PhD
- Criminology – MA, PhD
- Drama – MA, PhD
- English – MA, PhD
- Geography – MA, MSc, PhD
- German Literature, Culture and Theory – MA, PhD
- History – MA, PhD
- History of Art – MA, PhD
- Near and Middle Eastern Civilizations – MA, PhD
- Political Science – MA, PhD
- Religion – MA, PhD
- Slavic Languages and Literatures – MA, PhD
- Sociology – MA, PhD
- Sociology in Education – MA, MEd, EdD, PhD
- Spanish – MA, PhD
- Women and Gender Studies – MA

Supporting Units
Centre for Jewish Studies
Centre for Diaspora and Transnational Studies

Overview
Diaspora in contemporary thought involves the shifting relations between homelands and host nations from the perspective of those who have moved, whether voluntarily or not. Diaspora emphasizes the inescapable lived translocal experiences of many migrant communities that exceed the boundaries of the nation-state. Questions of nostalgia, of the dynamics of co-ethnic identification, of the politics of homeland and host nation, and of the inter-generational shifts in responses to all these are central to studies of diaspora.

Transnationalism, on the other hand, focuses on flows and counterflows and the multistratified connections to which they give rise. It encompasses in its ambit not just the movement of people but also concepts of citizenship and multinational governance, the resources of information technology, and the realities of the global marketplace, among others.

Taken together, the two concepts of diaspora and transnationalism enable our understanding of the complex realities of vast movements of people, goods, ideas, images, technologies, and finance in the world today.

This collaborative program is designed to bring together both social science and humanities perspectives to augment our existing tri-campus undergraduate program and to contribute to increased research collaboration between participants in the program.

Contact and Address
Web: www.utoronto.ca/cdts/graduate.html
Email: cdts@utoronto.ca
Telephone: (416) 946 8464
Fax: (416) 978 7045
Diaspora and Transnational Studies Collaborative Program
Suite 230, 170 St. George Street
Toronto, Ontario M5R 2M8
Canada

Master’s Level

Admission Requirements
- Applicants are enrolled in a participating master’s degree program in the graduate unit in which the research is conducted, which is known as the participating home graduate unit. The applicant must meet the admission requirements of both the home graduate unit and the collaborative program.

Program Requirements
- Students must meet all respective degree requirements of the School of Graduate Studies and the participating unit.
- Students must meet the requirements of the collaborative program as follows:
  - 0.5 full-course equivalent (FCE) seminar in Comparative Research Methods in Diaspora and Transnational Studies (DTS). As part of the Research Methods seminar, students are required to submit an ethnographic, archival, or documentary paper on a diasporic community in Toronto or elsewhere.
  - 0.5 FCE DTS topics course (DTS 2000H); course theme to be decided each year by the Program Committee. With the approval of the Program Director, a student may substitute a course from their home department for the DTS topics course.
  - The DTS collaborative components may be taken as electives for the purpose of satisfying home department requirements.
  - If the student undertakes a major paper or thesis in their home department, this will be on a topic in diaspora and transnational studies, approved by the Program Committee.
Collaborative Programs

Doctoral Level

Admission Requirements

- Applicants shall be enrolled in a participating doctoral degree program in the graduate unit in which the research is conducted, which is known as the participating home graduate unit. The applicant shall meet the admission requirements of both the home graduate unit and the collaborative program.
- Students who complete the collaborative program at the master’s level will not be eligible for the program at the doctoral level.

Program Requirements

- Meet all respective degree requirements of the School of Graduate Studies and the participating unit.
- Meet the requirement of the collaborative program as follows:
  - 0.5 full-course equivalent (FCE) seminar in Comparative Research Methods in Diaspora and Transnational Studies. As part of the Research Methods seminar, students are required to submit an ethnographic, archival, or documentary paper on a diasporic community in Toronto or elsewhere.
  - 0.5 FCE DTS topics course (DTS 2000H); course theme to be decided each year by the Program Committee. With the approval of the Program Director, a student may substitute a course from their home department for the DTS topics course.
  - The DTS collaborative components may be taken as electives for the purpose of satisfying home department requirements.
  - The student’s dissertation in their home department must be on a topic in diaspora and transnational studies, approved by the Program Committee.

Course List

DTS 1000H Comparative Research Methods in Diaspora and Transnationalism
DTS 2000H Graduate Topics in Diaspora Studies

Program Committee

Lambek, Michael - BA, MA, PhD – Anthropology
Columpar, Corinn - BA, PhD – Cinema Studies
Johnson, Stephen - BA, MA, PhD – Drama
Most, Andrea - BA, MA, PhD – English
Quayson, Ato - BA, PhD – English (Director)
MacDonald, Ken - BA, MA, PhD – Geography
Kwee, Hui Kian - BA, MA, PhD – History
Terpstra, Nicholas - BA, MA, PhD – History (Acting Director)
Dehli, Kari - BA, MA, PhD – Sociology & Equity Studies
Klassen, Pamela - BA, MA, PhD – Religion
Najman, Hindy - AB, MA, PhD – Religion
O’Neill, Kevin - BA, MA, PhD – Religion
Reitz, Jeffrey - PhD – Sociology
Blackmore, Josiah - PhD – Spanish
Dynamics of Global Change

Lead Faculty
Arts and Science

Participating Degree Programs
Adult Education and Community Development
- PhD
**Anthropology** – PhD
**Computer Science** – PhD
**Economics** – PhD
**Educational Administration** – PhD
**Geography** – PhD
**Health Policy Management and Evaluation** – PhD
**Law** – SJD
**Management** – PhD
**Medicine** – PhD
**Political Science** – PhD

Overview
The Collaborative Program in the Dynamics of Global Change is a multidisciplinary program that explores the frontiers of global change across a wide range of issues and identifies the underlying dynamics of change. In a rapidly evolving, complex, and loosely structured global system that engages new actors, change occurs at multiple levels and can have amplifying effects in unexpected ways. This program explores these complex interconnections across disciplinary fields and issue areas. From their home departments, students may take up questions from their own disciplines but explore them through the theoretical and methodological lens of global change.

Contact and Address
Web: www.utoronto.ca/mcis/dgc
Email: cis.mair@utoronto.ca
Telephone: (416) 946-8917
Megan Ball
Program Administrator
Collaborative Program in Dynamics of Global Change
Munk School of Global Affairs
University of Toronto
1 Devonshire Place
Toronto, Ontario M5S 3K7
Canada

Doctoral Level
Admission Requirements
- Each graduate student in the Program shall be enrolled in a participating degree program in the graduate unit where the research is conducted, which is known as the home graduate unit. The student shall meet the admission requirements of both the home graduate unit and the collaborative program.

Program Requirements
- Students must meet all respective degree requirements of the School of Graduate Studies, the participating graduate unit, and the collaborative program.
- Collaborative program course requirements:
  - 0.5 full-course equivalent (FCE) core course in the Dynamics of Global Change
  - 0.5 FCE comprising two intensive, modular courses in the Dynamics of Global Change
- Students will pursue a dissertation topic related to the dynamics of global change. Normally, the dissertation supervisor will be a core faculty member of the Program. At least one member of the dissertation committee should be drawn from a graduate unit different from and cognate to the student’s home unit.
- Each student’s course of study and overall progress will be reviewed annually by the Collaborative Program Director, though ultimate responsibility for the student’s progress will remain with the graduate chair of the home program.

Course List
- **DGC 1000H** Core Issues in the Dynamics of Global Change
- **DGC 2000H** Special Topics in the Dynamics of Global Change
- **DGC 2001H** Special Topics in the Dynamics of Global Change
- **DGC 2002H** Special Topics in the Dynamics of Global Change
- **DGC 2003H** Special Topics in the Dynamics of Global Change

Program Committee
Mundy, Karen - BA, MA, PhD, Canada Research Chair – Adult Education & Counselling Psychology
Boddy, Janice - BA, MA, PhD, FRSC – Anthropology
Easterbrook, Steve - BSc, PhD – Computer Science
Hosios, Arthur - BEng, MA, MEng, PhD – Economics
Daniere, Amrita - AB, MPP, PhD, MCIP – Geography
Lemieux-Charles, Louise - BScN, MScN, PhD – Health Policy, Management & Evaluation
Dyzenhaus, David - BA, LLB, DPhil, FRSC – Law
Pauly, Peter - MA, PhD – Management
Cameron, David - MSc, BA, PhD – Political Science
Joshee, Reva - BA, MA, PhD – Theory & Policy Studies in Education
Levin, Ben - BA, EdM, PhD – Theory & Policy Studies in Education
Editing Medieval Texts

Lead Faculty
Arts and Science

Participating Degree Programs
Classics – PhD
English – PhD
History – PhD
Italian Studies – PhD
Medieval Studies – PhD
Music – PhD
Philosophy – PhD
Religion – PhD
Spanish – PhD

Overview
The Collaborative Program in Editing Medieval Texts offers intensive training in the editing of medieval Latin and vernacular texts, including music. Training in all areas is based on a sound knowledge of Latin, a facility in examining manuscript documents, and an understanding of the principles of editorial method. Students can choose to focus on editing texts in Latin, texts in Old and Middle English, or texts in other vernacular languages. Students in the program complete a series of courses that deal with the techniques of reading, transcribing, and editing manuscripts, and then complete an editorial project.

Contact and Address
Web: http://projects.chass.utoronto.ca/textualediting
Email: medieval.studies@utoronto.ca
Telephone: (416) 978-4884
Fax: (416) 978-8294

Collaborative Program in Editing Medieval Texts
Centre for Medieval Studies
University of Toronto
3rd Floor, 125 Queen’s Park
Toronto, Ontario M5S 2C7
Canada

Doctoral Level
Admission Requirements
• The Collaborative Program in Editing Medieval texts is only available to doctoral students in one of the collaborating departments.
• Students who wish to be admitted to the program must have passed the Centre for Medieval Studies’ Level One Latin examination.

Program Requirements
• MST 1104H and either MST 1105H or MST 1115H.
• 1.0 full-course equivalent (FCE) chosen from MST 1101H, MST 1107H, MST 1110H, MST 1113H, MST 1385H, ENG 1093H, or another approved course.
• An approved editorial project, which can be a paper for a course in any of the collaborating departments, an independent publishable project, or the student’s dissertation.

Course List

English
ENG 1093H The Medieval Vernacular Book

Italian Studies
ITA 1165H Introduction to Italian Philology
ITA 1170H Textual Criticism and the Editing of Early Italian Texts

Medieval Studies
MST 1000Y Introductory Medieval Latin
MST 1101H Codicology (PR)
MST 1104H Latin Palaeography I (PR)
MST 1105H Latin Palaeography II (PR)
MST 1107H Latin Textual Criticism (PR)
MST 1110H Diplomatics and Diplomatic Editing (PR)
MST 1113H Vernacular Text-Editing: A Collaborative Project
MST 1115H English Palaeography (PR)
MST 1384H The Exeter Book of Old English Verse (PR)
MST 1392H Editing and Appreciating Wulfstan’s Prose (PR)
MST 3230H The Common Law of Medieval Europe

Program Committee
Magee, John - BA, MA, PhD – Classics
Robins, William - BA, MPhil, PhD – English
Meyerson, Mark - BA, MA, PhD – History
Lettieri, Michael - BA, MA, PhD – Italian Studies
Andrée, U.O. Alexander - BA, PhD – Medieval Studies
Orchard, Andrew - BA, MA, PhD – Medieval Studies
Townsend, David Robert - BA, MA, PhD – Medieval Studies
Bowen, William - BA, BMus, MA, PhD – Music
King, Peter - AB, PhD – Philosophy
Goering, Joseph - BA, MAR, MA, MSL, PhD – Religion
Blackmore, Josiah - BA, MA, PhD – Spanish

2011/2012 School of Graduate Studies Calendar
Educational Policy

Lead Faculty
Ontario Institute for Studies in Education

Participating Degree Programs
Adult Education and Community Development – MEd, MA, PhD
Curriculum Studies and Teacher Development – MEd, MA, PhD
Developmental Psychology and Education – MEd, MA, PhD
Educational Administration – MEd, MA, EdD, PhD
Higher Education – MEd, MA, EdD, PhD
History and Philosophy of Education – MEd, MA
Second Language Education – MEd, MA, PhD
Sociology in Education – MEd, MA, EdD, PhD

Overview
The Collaborative Program in Educational Policy serves students interested in developing an understanding of the factors associated with educational policy development and implementation, with particular emphasis on developing theoretical and practical strategies for improving educational processes. The collaborative program's intellectual objectives include providing students with exposure to cross-field and cross-disciplinary approaches to educational problem framing and problem solving in order to broaden the possibilities for innovative and effective policy analysis; helping students understand how to apply theoretical concepts to particular social and educational problems in particular settings; and understanding the broader social, institutional and policy contexts within which educational policy processes occur.

Annual activities including a lecture series, conferences for educators and researchers, publications and cross-specialization research initiatives both enhance the intellectual infrastructure of the academic program and provide a basis for collaborative work. Canada Research Chairs, the Ontario Research Chair, endowed chairs and others with policy expertise in TPS, across OISE, the University of Toronto and other educational institutions link their work through these program-related activities.

Upon successful completion of the degree requirements of the home department and the collaborative program, students receive the notation “Completed Collaborative Program in Educational Policy” on their transcript.

Contact and Address
Web: www.oise.utoronto.ca/tps/Programs/Educational_Policy/
Telephone: (416) 978-1203 or (416) 978-1159
Fax: (416) 926-4741

Master's Level

Admission Requirements
- Applicants must apply to and be accepted by both their “home” program and the Collaborative Program in Educational Policy.
- In addition to corresponding to all home program requirements, the applicant shall submit a sample of writing, no longer than three pages, that includes:
  - Relevant personal and/or professional experiences, a career plan, and motivation in seeking admission to the Collaborative Program in Educational Policy.
  - An indication of specific courses of interest.
  - For thesis students, a brief outline of proposed research project.
  - For thesis students, indication of preference of supervisor.
- Applicants who are interested in applying to the collaborative program at the time of their initial application to their home graduate program should indicate this on their application and advise referees that letters of support will be used in application for both the home program and the collaborative program.
- Students who develop an interest in admission to the collaborative program after they have been admitted to their home program may also apply during their course of study. Requests from students already enrolled will be considered once a year at the same time as initial admission files are reviewed.

Program Requirements
- All master's students in the collaborative program:
  - take the core half-course TPS 3045H Policy and Program Evaluation.
  - attend the Collaborative Program in Educational Policy Seminar Series over two consecutive sessions. Collaborative Educational Policy Seminars occur once a month; attendance is required.
  - are encouraged, but not required, to enrol in an elective half course in the area of educational policy selected from the list of electives below.
  - take the remaining courses for the fulfillment of the degree requirements of the home program.

Collaborative Program in Educational Policy
Department of Theory and Policy Studies in Education
Ontario institute for Studies in Education
University of Toronto
Room 6-119, 252 Bloor Street West,
Toronto, Ontario M5S 1V6
Canada
Collaborative Programs

- enrolled in home programs requiring a master's research project or thesis will be required to incorporate educational policy issues in their research; a member of the collaborative program core faculty will serve as supervisor or commit-tee member.
- MEd Program: The total number of courses re-quired for graduation will equal 6, 8, or 10.
- MA Program: The total number of courses required for graduation will equal 6 or 8.

Course List

Master’s-Level Electives

- AEC 1171H Aboriginal Education: Contemporary Policies and Programs
- CTL 1816H Official Discourses and Minority Education
- CTL 3000H Foundations of Bilingual and Multicultural Education
- CTL 3008H Critical Pedagogy, Language and Cultural Diversity
- CTL 3018H Language Planning and Policy
- HDP 1211H Psychological Foundations of Early Development and Education
- HDP 1241H Outcomes of Early Education and Child Care
- HDP 1259H Child and Family Relationships – Implications for Education
- SES 1902H Introduction to Sociological Methods in Education
- SES 1903H Introduction to Sociological Theory in Education
- SES 1912H Foucault and Research in Education
- SES 1948H Sociology of Race and Ethnicity
- SES 1951H School and Community
- SES 2942H Marginality and the Politics of Resistance
- TPS 1020H Education and Work
- TPS 1428H Teachers and Educational Change
- TPS 1429H Social Inequality in Education and Work
- TPS 1429H Immigration and the History of Canadian Education
- TPS 1429H Ethnicity and the History of Canadian Education

Doctoral-Level Electives

- CTL 1816H Official Discourses and Minority Education
- CTL 3008H Critical Pedagogy, Language and Cultural Diversity
- CTL 3018H Language Planning and Policy
- SES 2942H Social Inequality in Education
- SES 2999H Aboriginal Peoples and Citizenship
- JSA 5147H Language, Nationalism and Postnationalism
- WPL 3931H Doctoral Seminar in Workplace Learning and Social Change

Doctoral Level

Admission Requirements

- Students interested in participating in the Collaborative Program in Educational Policy at the doctoral level must apply to and be accepted by both their “home” program and the collaborative program.
- In addition to corresponding to all home program requirements, the application shall include a sample of writing, no longer than three pages, that includes:
  - Relevant personal and/or professional experiences, a career plan, and motivation in seeking admission to the Collaborative Program in Educational Policy.
  - An indication of specific courses of interest.
  - A brief outline of proposed research project.
  - Indication of preference of supervisor.
- Applicants who are interested in applying to the collaborative program at the time of their initial application to their home graduate program should indicate this on their application and advise referees that letters of support will be used in application for both the home program and the collaborative program.
- Students who develop an interest in admission to the collaborative program after they have been admitted to their home program may also apply during their course of study. Requests from students already enrolled will be considered once a year at the same time as initial admission files are reviewed.

Program Requirements

- All doctoral students in the collaborative program:
  - take the core half-course: TPS 3045H Policy and Program Evaluation, if not already taken.
  - take the core half-course TPS 3145 Advanced Issues in Educational Policy Analysis and Program Evaluation.
  - attend the Collaborative Program in Educational Policy Seminar Series over two consecutive sessions. Collaborative Educational Policy Seminars occur once a month; attendance is required.
  - are encouraged, but not required, to consider one or more elective half courses in the area of educational policy selected from the list of electives below. The remaining half-courses will be those required for the fulfillment of the degree requirements of the home program.
  - are required to complete a thesis which incorporates issues of educational policy. A member of the collaborative program core faculty will serve as supervisor or committee member.
- The total number of courses required for graduation for both the EdD and PhD will equal 8, depending on the requirements of the student’s home program.

Course List

Doctoral-Level Electives

- CTL 1816H Official Discourses and Minority Education
- CTL 3008H Critical Pedagogy, Language and Cultural Diversity
- CTL 3018H Language Planning and Policy
- SES 2942H Social Inequality in Education
- SES 2999H Aboriginal Peoples and Citizenship
- JSA 5147H Language, Nationalism and Postnationalism
- WPL 3931H Doctoral Seminar in Workplace Learning and Social Change
Environment and Health

Lead Faculty
Arts and Science

Participating Degree Programs
Geography – MA, MSc, PhD
Medical Science – MSc, PhD
Planning – MScPl, PhD
Public Health Sciences – MPH, MSc, PhD
Women and Gender Studies – MA

Overview
The graduate degree programs listed above participate in the Environment and Health (EH) Collaborative Program. The health implications of human impacts on the environment cover a very broad range of issues including air and water quality, contaminated land, and shifts in the distribution of vector-borne diseases (related to changes in land use, climate, and human migration). The EH Collaborative Program provides students in the health sciences with a broad environmental perspective while at the same time exposes environmental studies students to the health implications of environmental quality. This program may also be of interest to students who are concerned with sociological and policy approaches to the field of environment and health.

Students who complete the collaborative program receive the following notation on their transcripts: “Completed the Collaborative Program in Environment and Health” and an official parchment from the School of Graduate Studies.

Contact and Address
Web: www.environment.utoronto.ca/Graduate/Programs/EnvironmentHealthCollaborativeProgram.aspx
Email: centre.environment@utoronto.ca
Telephone: (416) 978-3475
Fax: (416) 978-3884
Centre for Environment
University of Toronto
Earth Sciences Centre
Room 1016V, 33 Willcocks Street
University of Toronto
Toronto, Ontario M5S 3E8
Canada

Master’s Level and Doctoral Level

Admission Requirements
• Students who wish to enrol in the EH Collaborative Program offered by the Centre for Environment must first apply to and be accepted into a master’s or doctoral program in a degree granting unit, also called a “home department.” Information about applying to a home department can be found at the School of Graduate Studies website, www.sgs.utoronto.ca.

• Prospective students who are planning to enrol in the EH Collaborative Program are strongly encouraged to submit copies of the documents indicated on the Centre’s website by the application deadline established by the home department. Please contact the home department to which you intend to apply in order to confirm its application deadline. The Centre for Environment also allows potential students to enrol in its EH Collaborative Program beyond the deadline set by their home department.

Program Requirements
• Students must complete the requirements below in addition to the degree requirements of their home departments. Typically, students complete up to 1.0 full-course equivalent (FCE) and conduct research on an environment and health topic. Specific collaborative program requirements for each participating degree program are listed on the Centre’s website under the Environment and Health Collaborative Program.

Master’s Degrees
• Complete the core course ENV 4001H (0.5 FCE).
• Complete one elective half-course (0.5 FCE) from the list of approved electives below.
• For degree programs that require a thesis or research project, the topic should be within the field of environment and health, as approved by the home department and the collaborative program committee. A copy of the final thesis or project must be submitted to the Centre for Environment.

PhD Degrees
• Complete the core course EN V4001H (0.5 FCE), unless already completed at the master’s level.
• Complete one elective half-course (0.5 FCE) from the list of approved electives below.
• Present a seminar either in the Environment and Health Seminar Series or at the Centre for Environment’s Research Day.
• Complete a thesis on a theme in environment and health. The thesis committee membership will include a supervisor (from the student’s home department who is a member of the core faculty of the collaborative program and a member of the graduate faculty in the Centre for Environment) and at least one other member from a collaborating unit. A copy of the final thesis must be submitted to the Centre for Environment.
Collaborative Programs

Course List

The Centre for Environment offers individual credit courses that are open to graduate students from all parts of the university, subject to enrolment limits. With the exception of the core course, not all courses are offered every year. Graduate students enrolled in the Environment and Health Collaborative Program are also allowed to take elective courses listed under the Environmental Studies Collaborative Program toward completing their Environment and Health Collaborative Program requirements (these are listed under Environmental Studies Collaborative Program in this Calendar).

Core Course

ENV 4001H  Graduate Seminar in Environment and Health

Elective Courses

CHL 5416H  Environmental Epidemiology
CHL 5903H  Environmental Health
CHL 5916H  Environmental Health Policy
ENV 1703H  Water Resources Management and Policy
ENV 1704H  Environmental Risk Analysis and Management
ENV 3000H  Special Topics—Environmental and Health
ENV 4002H  Environment and Health of Vulnerable Populations
GGR 1504H  Health, Place and Difference
JGE 1212H  Fate of Contaminants in the Environment
JNC 2503H  Environmental Pathways
JNP 1014Y  Interdisciplinary Toxicology
JNP 1016H  Graduate Seminar in Toxicology
JPG 1421H  Health in Urban Environments
TPS 1837H  Environmental Health, Transformative Higher Education and Policy Changes

Program Committee

DiFrancesco, Richard - PhD, MCIP, RPP – Geography, Environment (Graduate Coordinator)
Jackson, Donald - BSc, MSc, PhD – Ecology & Evolutionary Biology, Environment
Wiseman, Clare - BS, MSc, PhD – Environment
Maclaren, Virginia - BA, MPI, MS, PhD – Geography
Rotstein, Ori - MSc, MD, FRCS – Medical Science
Rankin, Katharine – BA, MRP, PhD – Planning
Lemieux-Charles, Louise - PhD – Public Health Sciences
McElhinny, Bonnie - BA, MA, PhD – Women & Gender Studies
Environmental Engineering

Lead Faculty
Applied Science and Engineering

Participating Degree Programs
Chemical Engineering and Applied Chemistry – MASc, MEng, PhD
Civil Engineering – MASc, MEng, PhD
Materials Science and Engineering – MASc, MEng, PhD
Mechanical and Industrial Engineering – MASc, MEng, PhD

Overview
The Environmental Engineering Collaborative Program (EECP) is an interdisciplinary Collaborative Program designed for students interested in taking a concentration of courses and conducting research in environmental engineering. It is open to MASc, MEng, and PhD students in the collaborating graduate programs listed above in the Faculty of Applied Science and Engineering.

About 50 full-time faculty members in these departments carry out advanced research and teach postgraduate courses in a wide range of environmental engineering specialties.

The collaborative program is administered and coordinated by the Division of Environmental Engineering and Energy Systems in conjunction with the participating departments and the Centre for Environment.

Students who complete the EECP program requirements will obtain the following statement on their transcripts: "Completed Collaborative Program in Environmental Engineering".

Contact and Address
Web: www.energy.engineering.utoronto.ca
Email: eep@ecf.utoronto.ca
Telephone: (416) 978-3532
Fax: (416) 946-0371

Environmental Engineering Collaborative Program
Division of Environmental Engineering and Energy Systems
University of Toronto

Office address:
Room 1015, 44 St. George Street
University of Toronto

Mailing address:
35 St. George Street
Toronto, Ontario M5S 1A4
Canada

Master's Level

Admission Requirements

- Students who wish to enrol in the collaborative program must first apply to and be accepted into a master's program in one of the collaborating departments. (See the departmental entries in this calendar for details on admission requirements and degree programs.) Students should generally apply to the department that most closely matches their undergraduate degree.

- Once a student has registered in one of the collaborating departments, he or she may apply to and enrol in the EECP; this should be done no later than the end of the first session of study.

- Application forms for the collaborative program are available from the Division or any of the collaborating departments.

Program Requirements

- Degree requirements include coursework and generally a research thesis or project, with details varying among the collaborating departments (see the departmental entries in this calendar).

- Graduate courses and research are available in a wide range of environmental engineering specialties offered by the collaborating departments. Many additional courses relevant to environmental engineering are offered by the Centre for Environment. See the calendar entries for the collaborating departments and the Centre for Environment for lists of courses. More detailed information on faculty, areas of research, and courses is available on the Division’s website and from the Division.

- The EECP requirements are:
  - Completion of a concentration of study in environmental engineering as demonstrated in coursework and, where it is part of the degree requirement, a thesis or project. This is generally met through the student’s home department degree requirements.
  - Completion of one non-engineering course with substantial interdisciplinary content and student interaction that is related to the environment but is outside the student’s technical field. A list of approved courses is available on the Division’s website.
  - Participation in EDE 3000H, the Environmental Engineering Research Seminar Series, for at least two sessions. This is mandatory for MASc students and recommended for MEng students.
Collaborative Programs

Doctoral Level

Admission Requirements

- Students who wish to enrol in the collaborative program must first apply to and be accepted into a doctoral program in one of the collaborating departments. (See the departmental entries in this calendar for details on admission requirements and degree programs.) Students should generally apply to the department that most closely matches their undergraduate or master’s degree.

- Once a student has registered in one of the collaborating departments, he or she may apply to and enrol in the EECP; this should be done no later than the end of the first session of study.

- Application forms for the collaborative program are available from the Division or any of the collaborating departments.

Program Requirements

- Degree requirements include coursework and a research thesis, with details varying among the collaborating departments (see the departmental entries in this calendar).

- Graduate courses and research are available in a wide range of environmental engineering specialties offered by the collaborating departments. Many additional courses relevant to environmental engineering are offered by the Centre for Environment. See the calendar entries for the collaborating departments and the Centre for Environment for lists of courses. More detailed information on faculty, areas of research, and courses is available on the Division’s website and from the Division.

- The EECP requirements are:
  - Completion of a concentration of study in environmental engineering as demonstrated in coursework and a thesis. This is generally met through the student’s home department degree requirements.
  - Completion of one non-engineering course with substantial interdisciplinary content and student interaction that is related to the environment but is outside the student’s technical field. A list of approved courses is available on the Division’s website.
  - Participation in EDE 3000H, the Environmental Engineering Research Seminar Series, for at least two sessions.

Program Committee

Kirk, Donald - BASc, MASc, PhD, PEng – Chemical Engineering & Applied Chemistry
Adams, Barry - BSc, MS, PhD – Civil Engineering
Karney, Bryan - BASc, MEng, PhD, PEng – Civil Engineering (Director)

Utigard, Torstein - BSc, MASc, PhD, PEng – Materials Science & Engineering
Bussmann, Markus - BASc, MASc, PhD – Mechanical & Industrial Engineering
Environmental Studies

Lead Faculty
Arts and Science

Participating Degree Programs
Adult Education and Community Development – MA, MEd, PhD
Anthropology – MA, MSc, PhD
Chemical Engineering and Applied Chemistry – MASc, MEng, PhD
Chemistry – MSc, PhD
Counselling Psychology – MA, MEd, EdD, PhD
Ecology and Evolutionary Biology – PhD
Economics – MA
Forestry – MScF, MFC, PhD
Geography – MA, MSc, PhD
Geology – MASc, MSc, PhD
Information – MI
Information Studies – PhD
Management – MBA, PhD
Philosophy – MA, PhD
Physics – MSc, PhD
Planning – MScPl, PhD
Political Science – MA, PhD
Religion – MA, PhD
Sociology – MA, PhD
Sociology in Education – MA, MEd, EdD, PhD
Women and Gender Studies – MA

Overview
The graduate programs listed above participate in the Environmental Studies (ES) Collaborative Program which is offered through the Centre for Environment (CFE) at the University of Toronto. Graduate students admitted to a participating “home” department can apply to the collaborative program and pursue coursework and research in environmental areas. The Centre currently has graduate students from across the disciplinary spectrum.

The Centre offers a unique and comprehensive program of graduate study. By utilizing the University’s extensive library holdings and faculty resources, it offers one of North America’s most engaging and cross-disciplinary programs in the environment. One of the compelling strengths of the Centre’s program is the interdisciplinary environment in which teaching and research is conducted. For example, in its core courses, professors from the humanities team teach with faculty from the social sciences, engineering, biology, and chemistry. Students are both able to specialize in an area of environmental research and gain exposure to a wide range of intellectual and methodological disciplines focused on environmental issues.

Students who complete the collaborative program receive the following notation on their transcripts: “Completed Collaborative Program in Environmental Studies” and an official parchment from the School of Graduate Studies.

Contact and Address
Web: www.environment.utoronto.ca/Graduate/Programs/EnvironmentalStudiesCollaborativeProgram.aspx
Email: centre.environment@utoronto.ca
Telephone: (416) 978-3475
Fax: (416) 978-3884
Centre for Environment
University of Toronto
Earth Sciences Centre
Room 1016V, 33 Willcocks Street
Toronto, Ontario M5S 3E8
Canada

Master’s Level and Doctoral Level

Admission Requirements
- Students who wish to enrol in the Environmental Studies (ES) Collaborative Program offered by the Centre for Environment must first apply to and be accepted into a master’s or doctoral program in a degree granting unit, also called a “home department.” Information about applying to a home department can be found at the School of Graduate Studies website, www.sgs.utoronto.ca.

- Prospective students are strongly encouraged to submit copies of the documents indicated on the Centre’s website by the application deadline established by the home department. Please contact the home department to which you intend to apply in order to confirm its application deadline. The Centre for Environment also allows potential students to enrol in its ES Collaborative Program beyond the deadline set by their home department.

Program Requirements
- Students must complete the requirements below in addition to the degree requirements of their home departments. Typically, students complete up to 1.0 full-course equivalent (FCE) and conduct research on an environmental topic. Please note that requirements in some participating programs vary slightly. Therefore, we encourage students to check the calendar entries for their respective “home” department programs. The Centre also offers students in non-thesis master’s degree stream the opportunity to complete an internship in fulfilment of the collaborative program. Specific collaborative program requirements for each participating degree program are listed on the Centre’s website under the Environmental Studies Collaborative Program.
Collaborative Programs

Master's Degrees
- Complete the core course ENV 1001H (0.5 FCE).
- Complete one half-course elective (0.5 FCE).
- Complete internship of approximately three months (ENV 4444Y; 1.0 FCE).
- Produce a research paper related to the internship (ENV 5555Y; 1.0 FCE).

Master's Thesis Option
- Complete the core course ENV 1001H (0.5 FCE).
- Complete one half-course elective (0.5 FCE).
- Write a thesis in the home department on an environment-related topic.

PhD Degrees
- Complete the core course ENV 1001H (0.5 FCE), unless already completed at the master's level.
- Complete one half-course elective (0.5 FCE).
- Complete a thesis on an environmental topic in the home department.
- Present a seminar on thesis research, either in the Centre's seminar series or at the Centre for Environment Research Day.
- Additional courses may be required by the home department and/or by the supervisor or supervisory committee, depending on academic and/or career goals of the student, as well as departmental regulations.
- A supervisor or supervisory committee may be appointed for each student by the home department and the Centre for Environment.

Course List
The Centre for Environment offers individual credit courses that are open to graduate students from all parts of the University, subject to enrolment limits. With the exception of the core course, not all courses are offered every year. Graduate students enrolled in the Environmental Studies Collaborative Program are also allowed to take elective courses listed under the Environmental Health Collaborative Program toward completing their Environmental Studies Collaborative Program requirements (these are listed under Environmental Health Collaborative Program in this Calendar). For current graduate course listing, please refer to the Centre for Environment website at www.environment.utoronto.ca/Graduate/CourseSchedules.aspx.

Core Course
ENV 1001H  Environmental Decision Making

CFE Elective Courses
- ENV 1002H  Environmental Policy
- ENV 1004H  Urban Sustainability and Ecological Technology
- ENV 1005H  Business and Environmental Politics
- ENV 1008H  Worldviews and Ecology
- ENV 1444H  Capitalist Nature
- ENV 1701H  Environmental Law
- ENV 1707H  Environmental Finance and Sustainable Investing
- ENV 2000H,Y  Topics in Environmental Studies
- ENV 2002H  Special Topics—Environmental Studies
- ENV 4444Y  Internship
- ENV 5555Y  Research Paper

Other Elective Courses

Adult Education and Counselling Psychology
- AEC 1104H  Community Education and Organizing
- AEC 1131H  Special Topics in Adult Education: Adult Education for Sustainability
- AEC 1160H  Introduction to Transformative Learning Studies
- AEC 1178H  Practitioner/Ecological Identity and Reflexive Inquiry
- AEC 3176H  Sense of Place in Professional and Natural Contexts

Chemical Engineering and Applied Chemistry
- JNC 2503H  Environmental Pathways

Forestry and Social Work
- JFS 1460H  Community Based Natural Resource Management

Geography
- JGE 1413H  Environmental Impact Assessment
- JGE 1420H  Urban Waste Management
- GGR 1214H  Global Ecology and Biogeochemical Cycles

Geography and Planning
- JPG 1402H  Environment and Development
- JPG 1403H  Political Ecology of African Environments
- JPG 1404H  Issues in Global Warming
- JPG 1407H  Efficient Use of Energy
- JPG 1408H  Carbon-Free Energy
- JPG 1414H  Cities as Ecosystems
- JPG 1415H  Global Environmental Justice and Social Movements
- JPG 1419H  Aboriginal/Canadian Relations in Environment and Resource Management
- JGE 1609H  Cities, Industry and Environment

History
- HIS 1111H  Topics in North American Environmental History

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
Collaborative Programs

Mechanical and Industrial Engineering
JEI 1901H Technology, Society, and the Environment I
JEI 1902H Technology, Society, and the Environment II

Political Science
JPV 1201H Politics, Bureaucracy, and the Environment

Philosophy
JVP 2147H Environmental Philosophy

Sociology and Equity Studies in Education
SES 1909H Environmental Sustainability and Social Justice I

Program Committee
Watson, Jeanne - BA, MA, PhD – Adult Education & Counselling Psychology
Boddy, Janice - BA, MA, PhD – Anthropology
Reeve, Douglas - BSc, MASc, PhD, PEng – Chemical Engineering & Applied Chemistry
Morris, Robert - BSc, PhD – Chemistry
Rowe, Locke - BSc, MSc, PhD – Ecology and Evolutionary Biology
Hosios, Arthur - BEng, MA, MEng, PhD – Economics
Stefanovic, Ingrid - BA, MA, PhD – Environment
Smith, Sandy - BScAgr, MSc, PhD – Forestry
Maclaren, Virginia - BA, MPI, MS, PhD – Geography
DiFrancesco, Richard - PhD, MCIP, RPP – Geography, Environment
Cruden, Alexander - BSc, PhD – Geology
Ross, Seamus - BA, MA, PhD – Information
Martin, Roger - AB, MBA – Management
Boyle, Joseph - BA, PhD – Philosophy
Shepherd, Theodore - BSc, PhD – Physics
Rankin, Katharine - BA, MRP, PhD – Planning
Cameron, David - MSc, BA, PhD – Political Science
Kloppenborg, John - BA, MA, PhD – Religion
Wheaton, Blair - BA, MA, PhD – Sociology
Dehli, Kari - BA, MA, PhD – Sociology and Equity Studies in Education
McElhinny, Bonnie - PhD – Women & Gender Studies
Ethnic and Pluralism Studies

Lead Faculty
Arts and Science

Participating Degree Programs

- Anthropology – MA, PhD
- European, Russian, and Eurasian Studies – MA
- Educational Administration – MA, MEd, EdD, PhD
- Geography – MA, PhD
- History – MA, PhD
- History and Philosophy of Education – MA, MEd
- Industrial Relations and Human Resources – MIRHR, PhD
- Nursing Science – MN, PhD
- Political Science – MA, PhD
- Public Policy – MA
- Religion – MA, PhD
- Social Work – MSW, PhD
- Sociology – MA, PhD
- Sociology in Education – MA, MEd, Ed, PhD
- Women and Gender Studies – MA

Overview

The graduate programs listed above participate in the Ethnic and Pluralism Studies Collaborative Program at the University of Toronto. Participating graduate units in the program contribute courses and provide facilities and supervision for graduate research.

Upon successful completion of the requirements, students receive the notation "Completed Collaborative Program in Ethnic and Pluralism Studies" on their transcripts, in addition to the master's or doctoral degree in their departmental area.

Contact and Address

Web: www.utoronto.ca/ethnicstudies
Email: ethnic.studies@utoronto.ca
Telephone: (416) 978-4783
Fax: (416) 978-3963

Collaborative Program in Ethnic and Pluralism Studies
Department of Sociology
University of Toronto
725 Spadina Avenue
Toronto, Ontario M5S 2J4
Canada

Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating graduate units.

Program Requirements

- Students must follow a program of studies acceptable to both the participating graduate unit and the Ethnic and Pluralism Studies Program.
- Collaborative program requirements may be met concurrent with, or in addition to, departmental requirements. Students should consult specific departmental listings for information.
- 1.0 full-course equivalent (FCE) in ethnicity, of which at least 0.5 FCE will be in a discipline other than the one in which the student is enrolled. Normally, these courses are taken as options within regular departmental or faculty degree requirements, not as additional courses.
- A coordinating 0.5 FCE seminar in ethnicity. The seminar is the place to discuss, compare, and bring together the various approaches to the study of ethnicity. As well, students will be expected to present and discuss their projects.
- When a practicum is required, it will focus on ethnicity.
- It is understood that the major paper or thesis as required by the graduate unit will be in an ethnic studies area.

Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating graduate units.
- Applicants to the Doctor of Philosophy degree program are accepted under the general regulations.

Program Requirements

- Students must follow a program of studies acceptable to both the participating graduate unit and the Ethnic and Pluralism Studies Program.
- Collaborative program requirements may be met concurrent with, or in addition to, departmental requirements. Students should consult specific departmental listings for information.
- 2.0 full-course equivalents (FCEs) in ethnicity, including master's-level courses, of which at least 1.0 will be in disciplines other than the one in which the student is enrolled. Normally, these courses are
Collaborative Programs

Ethnic and Pluralism Studies

Courses eligible for credit toward meeting program requirements in Ethnic and Pluralism Studies are listed below.

1. Students should check with the professor responsible for each course since a prerequisite may be required.
2. Not all courses are offered each year. Please consult the Program office or the appropriate graduate unit for course availability.
3. Students wishing to use courses other than those listed below for credit toward meeting program requirements must submit a formal request in writing.

Coordinating Seminar

JTH 3000H Ethnic Relations Theory, Research, and Policy

Anthropology

ANT 6003H Critical Issues in Ethnography I
ANT 6004H Critical Issues in Ethnography II
ANT 6034H Advanced Research Seminar IV (Ethnicity)
ANT 6040H Approaches to Field Work I
ANT 6041H Approaches to Field Work II
ANT 6050H Reading Course in Specific Area and Theory I

Economics

ECO 2800H Labour Economics I (Prerequisite: an undergraduate course in statistics and a graduate course in applied statistics.)

European, Russian, and Eurasian Studies

ERE 1188H Identity, Ethnicity, and Cultural Change in Eastern Europe

Geography

PLA 1503H Planning and Social Policy
JPG 1505H The Multicultural City: Diversity, Policy, and Planning
JPG 1506H State/Space/Difference: Understanding the New Social Geography
GGR 1712H Historical Geography of Ethnic Groups in Canada

History

HIS 1102H Spiritual Invasion: Natives of the Americas Confront Christianity
HIS 1120H Topics in Aboriginal/Non-Aboriginal Relations in Canada
HIS 1164H Irish Migration to Canada: Sources and Methods
HIS 1166H Immigrants, Minorities, and the Racialized Other: Canada in a Comparative Context (Prerequisite: any previous course in the history of Canada.)
HIS 1274H The Nazis, Occupied Europe, and the Jews
HIS 1287H Polish Jews Since the Partitions of Poland (joint graduate/undergraduate)
HIS 1297H Problems of National Survival in Eastern Europe Since 1848
HIS 1528H Crossing Boundaries: Race, Ethnicity, Class, and Gender in America, 1880–1930
HIS 1545H Race, Segregation and Protest: South Africa and the United States

Industrial Relations and Human Resources

IRE 3630H Workplace Diversity and Inclusivity

Law

Participation in LAW courses is at the discretion of the Faculty of Law upon presentation, to the Faculty of Law Records Office, of a signed permission form from the student’s home department. Note that preference is given to JD students and that many law courses are full by the end of the Faculty of Law add/drop period.

LAW 117H Introduction to Islamic Law
LAW 261H Citizenship: Inside and Out
LAW 370H Aboriginal and Treaty Rights in Canada
LAW 410H Discrimination Law: Equality in the Private Sector
LAW 456H Canadian Migration Law
LAW 547H Law of Forced Migration

Nursing Science

NUR 1013H Transcultural Health Care Issues
NUR 1014H Politics of Aboriginal Health

www.sgs.utoronto.ca/calendar/2011-12
### Collaborative Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 1068H</td>
<td>Youth and Mental Health Promotion</td>
</tr>
<tr>
<td><strong>Political Science</strong></td>
<td></td>
</tr>
<tr>
<td>POL 2001Y</td>
<td>Problems of Political Community</td>
</tr>
<tr>
<td>POL 2026H</td>
<td>Topics in Political Thought I: Nationalism and Political Philosophy</td>
</tr>
<tr>
<td>POL 2038Y</td>
<td>Problems of Pluralism and Equality</td>
</tr>
<tr>
<td>POL 2127H</td>
<td>Canadian Theories of Multiculturalism</td>
</tr>
<tr>
<td>POL 2321H</td>
<td>Topics in Comparative Politics I: Citizenship and Immigration in Europe and North America</td>
</tr>
<tr>
<td>POL 2324H</td>
<td>Ethnonationalism and State-Building: The Communist and Post-Communist Experience</td>
</tr>
<tr>
<td>POL 2413Y</td>
<td>Politics, Culture, and Identity in Southeast Asia</td>
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<tr>
<td><strong>Religion</strong></td>
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<tr>
<td>RLG 2037H</td>
<td>Religion and Healing</td>
</tr>
<tr>
<td>RLG 3236H</td>
<td>Religious Pluralism and the Church</td>
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<tr>
<td>RLG 3512H</td>
<td>Introduction to Islamic Law</td>
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<tr>
<td>RLG 3931H</td>
<td>Topics in North American Religions</td>
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<tr>
<td><strong>Social Work</strong></td>
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<tr>
<td>SWK 4210H</td>
<td>Promoting Empowerment: Working at the Margins</td>
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<tr>
<td>SWK 4304H</td>
<td>Globalization and Trans-nationalization: Social Work Responses Locally and Globally</td>
</tr>
<tr>
<td>SWK 4617H</td>
<td>Cross-Cultural Social Work Practice</td>
</tr>
<tr>
<td>SWK 4658H</td>
<td>Social Work with Immigrants and Refugees</td>
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<tr>
<td>SWK 4801H</td>
<td>Special Studies I</td>
</tr>
<tr>
<td>SWK 4802H</td>
<td>Special Studies II</td>
</tr>
<tr>
<td><strong>Sociology</strong></td>
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<tr>
<td>SOC 6002H</td>
<td>Immigration I: Contemporary International Migration</td>
</tr>
<tr>
<td>SOC 6003H</td>
<td>Immigration II: Sociology of Immigration, Ethnicity and Employment</td>
</tr>
<tr>
<td>SOC 6009H</td>
<td>Ethnicity I</td>
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<tr>
<td>SOC 6016H</td>
<td>Social Demography I</td>
</tr>
<tr>
<td>SOC 6109H</td>
<td>Ethnicity II</td>
</tr>
<tr>
<td>SOC 6116H</td>
<td>Social Demography II</td>
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<tr>
<td><strong>Sociology and Equity Studies in Education</strong></td>
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<tr>
<td>SES 1921Y</td>
<td>The Principles of Anti-Racism Education</td>
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<tr>
<td>SES 1926H</td>
<td>Race, Space and Citizenship: Research Methods</td>
</tr>
<tr>
<td>SES 1952H</td>
<td>Language, Culture, and Education</td>
</tr>
<tr>
<td>SES 3933H</td>
<td>Theorizing Transnationality: Feminist Perspectives</td>
</tr>
<tr>
<td>JSA 5147H</td>
<td>Language, Nationalism and Post-Nationalism</td>
</tr>
</tbody>
</table>

### Theory and Policy Studies in Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>TPS 1029H</td>
<td>Special Topics in Educational Administration: Multicultural and Diversity</td>
</tr>
<tr>
<td>TPS 1042H</td>
<td>Educational Leadership and Cultural Diversity</td>
</tr>
<tr>
<td>TPS 1428H</td>
<td>Immigration and the History of Canadian Education</td>
</tr>
<tr>
<td>TPS 1429H</td>
<td>Ethnicity and the History of Canadian Education</td>
</tr>
<tr>
<td>TPS 3042H</td>
<td>Field Research in Educational Administration</td>
</tr>
<tr>
<td>TPS 3428H</td>
<td>Minority Concerns and Education in Canadian History: Selected Topics</td>
</tr>
</tbody>
</table>

### Program Committee

Levin, Michael - BA, MA, PhD – Anthropology  
Baker, Michael - BCom, MA, PhD, Royal Bank Chair in Public and Economic Policy – Economics  
Mahtani, Minelle - BA, PhD – Geography  
Iacovetta, Franca - BA, MA, PhD – History  
Verma, Anil - BSB, MA, PhD – Industrial Relations & Human Resources  
Macklin, Audrey - BA, LLB, LLM – Law  
Gastaldo, Denise - BSN, MA, PhD – Nursing Science  
Kopstein, Jeffrey - PhD, MA, BA – Political Science  
Phil Triadafilopoulos - BA, MA, PhD – Political Science  
Mittermaier, Amira - MA, PhD – Religion  
Reitz, Jeffrey - BS, PhD, FRSC, Robert F. Harney Professor of Ethnic, Immigration & Pluralism Studies – Sociology (Director)  
Fong, Eric - BA, MA, PhD – Sociology  
Razack, Sherene - BA, MA, PhD – Sociology & Equity Studies in Education  
Sakamoto, Izumi - BA, MA, MSW, MS, PhD – Social Work  
Troper, Harold - BA, MA, PhD – Theory & Policy Studies in Education  
McElhinny, Bonnie - PhD – Women & Gender Studies
Genome Biology and Bioinformatics

Lead Faculty
Medicine

Participating Degree Programs
Biochemistry – PhD
Biomedical Engineering – PhD
Cell and Systems Biology – PhD
Chemical Engineering and Applied Chemistry – PhD
Computer Science – PhD
Ecology and Evolutionary Biology – PhD
Laboratory Medicine and Pathobiology – PhD
Medical Biophysics – PhD
Medical Science – PhD
Molecular Genetics – PhD

Overview
The recent elucidation of the genomes of many organisms has led to the appreciation that our knowledge of the function of the proteome and other "omes" of any given organism is far from complete. A wide range of computational, theoretical, biochemical, structural, cell biological and genetic approaches need to cooperate to establish the connections between sequence, structure and function. The Collaborative Program in Genome Biology and Bioinformatics addresses this need for cooperation with a coherent course of study that educates and trains doctoral graduate students across these diverse disciplines. The program serves as a model for a content-driven, inter-departmental unit that responds to the University’s need to adapt to cutting-edge scientific developments.

The graduate programs listed above participate in the Collaborative Program in Genome Biology and Bioinformatics. Upon successful completion of the PhD requirements of the host department and the program, students receive the notation "Completed Program in Genome Biology and Bioinformatics" on their transcripts.

Contact and Address
Web: www.gbb.utoronto.ca
Email: rob.reedijk@utoronto.ca
Telephone: (416) 978-0774

Mr. Rob Reedijk, Administrative Coordinator
Collaborative Program in Genome Biology and Bioinformatics
Department of Biochemistry
University of Toronto
Room 5207, Medical Sciences Building
Toronto, Ontario M5S 1A8
Canada

Doctoral Level
Admission Requirements
• Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments. Since this is a PhD program, students must be registered in the doctoral program of one of the host departments and must be undertaking research with a significant genome biology and/or bioinformatics component under the supervision of a member of the program.

Program Requirements
• Complete a PhD thesis and any core courses as required by the student’s host department.
• Complete the interdepartmental courses* or alternates (one of JBB 2026H, JBZ 1472H, JTB 2010H*, or EEB 1460H; and one of BME 1458H, CSC 2417H, CSC 2418H, CSC 2515H, or JTB 2020H*). The interdepartmental courses may be taken in place of some host department PhD course requirements after a student obtains written permission from the host department. Courses not included in the Course List below will be considered by the Director on a case-by-case basis. Requests, along with the syllabus of the course in question, should be submitted to the Director.
• Participate in the seminar series and participate in collaborative traineeships in which an aggregate time of two to four months is spent in a collaborating laboratory, thematically working on an aspect of the thesis project but with a complementary method. The goal of the collaborative traineeship is ideally a joint publication between the two member labs.

Course List
Students should take one genome biology/"omics" course (Group I) and one computational biology/bioinformatics course (Group II) from the following lists. Courses not on these lists will be considered by the Director on a case-by-case basis. Requests, along with the syllabus of the course in question, should be submitted to the Director.

Interdepartmental courses mounted by the Genome Biology and Bioinformatics program are marked with an asterisk (*).

Group I
EEB 1460H Molecular Evolution
JBB 2026H Protein Structure, Folding and Design
JBZ 1472H Computational Genomics and Bioinformatics
Collaborative Programs

JTB 2010H* Proteomics and Functional Genomics

**Group II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 1458H</td>
<td>Pattern Discovery Methods for Biomedical Engineering</td>
</tr>
<tr>
<td>CSC 2417H</td>
<td>Algorithms for Genome Sequence Analysis</td>
</tr>
<tr>
<td>CSC 2418H</td>
<td>Computational Structural Biology</td>
</tr>
<tr>
<td>CSC 2515H</td>
<td>Machine Learning</td>
</tr>
<tr>
<td>JTB 2020H*</td>
<td>Applied Bioinformatics</td>
</tr>
</tbody>
</table>

**Program Committee**

Steipe, Boris - MD, PhD – Biochemistry
Yip, Christopher - BASc, MSc, PhD, PEng, Canada
Research Chair – Biomaterials & Biomedical Engineering,
Mahadevan, Radhakrishnan - BTech, PhD – Chemical Engineering & Applied Chemistry
Provart, Nicholas - BSc, MSc, PhD – Cell & Systems Biology (Director)
Brudno, Michael (Mikhail) - BA, MSc, PhD – Computer Science
Chang, Belinda - BA, PhD, Canada Research Chair – Ecology & Evolutionary Biology
Irwin, David - BSc, PhD – Laboratory Medicine & Pathobiology
Tillier, Elisabeth - PhD – Medical Biophysics
Stanford, William - BA, PhD, Canada Research Chair in Stem Cell Biology & Functional Genomics – Medical Science
Emili, Andrew - BSc, MSc, PhD – Molecular Genetics
Geology and Physics

Lead Faculty
Arts and Science

Participating Degree Programs
Geology – MSc, PhD
Physics – MSc, PhD

Overview
The graduate programs listed above participate in the Collaborative MSc and PhD Programs in Geology and Physics. These programs foster graduate education in those areas of study that overlap traditional departmental boundaries.

Students who successfully complete the requirements of the collaborative program will receive the notation “Completed Collaborative Program in Geology and Physics” on their transcript.

Contact and Address
Email: bailey@geology.utoronto.ca
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Collaborative Program in Geology and Physics
c/o R. C. Bailey
University of Toronto
McLennan Physical Laboratories
Room 501, 60 St. George Street
Toronto, Ontario M5S 1A7
Canada

Master's Level
Admission Requirements
- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both a graduate degree program in one of the collaborating departments, this being either Geology or Physics, and to the collaborative program. Note that MSc students enrolled in Option I in Physics or in the course-only option in Geology are not eligible to enrol in the collaborative program.
- Applicants must submit a supplementary brief application form, available from either home department or the collaborative program office, to the collaborative program Director.
- Normal deadlines for application to the School of Graduate Studies apply. Students who have already been admitted to one of the two home departments may apply to the collaborative program until October 1.

Program Requirements
- Students must meet all respective degree requirements of the School of Graduate Studies, the home department, and the collaborative program.
- The MSc research, thesis, and thesis defence requirements are the same as those of the home department.
- The MSc will normally require work equivalent to 5.5 FCEs as follows:
  - The core course GLG 1101H (0.5 FCE)
  - Two lecture courses in Geology (1.0 FCE)
  - Two lecture courses in Physics (1.0 FCE)
  - A supervised research project in the field of geophysics or the overlap area of physics and geology (3.0 FCEs)
- The supervised research project and associated report or thesis will be completed under the regulations of the home department.
- Students are expected to attend the regular seminar series of both the Geology Department and the Geophysics Lab in the Physics Department and to participate in the graduate student seminar programs of both the Geology Department and the Geophysics Lab.
- Program requirements are normally completed within 12 months of entry to the program.

Doctoral Level
Admission Requirements
- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both a graduate degree program in one of the collaborating departments, this being either Geology or Physics, and to the collaborative program.
- Applicants must submit a supplementary brief application form, available from either home department or the collaborative program office, to the collaborative program Director.
- Normal deadlines for application to the School of Graduate Studies apply. Students who have already been admitted to one of the two home departments may apply to the collaborative program until October 1.

Program Requirements
- Students must meet all respective degree requirements of the School of Graduate Studies, the home department, and the collaborative program.
- The PhD research, thesis, and thesis defence requirements are the same as those of the home department.
Collaborative Programs

- The lecture course requirements are the Geology graduate seminar course in addition to the course requirements of the home department, and at least 1.0 FCE in the non-home department.
- The student’s research supervisor will normally be a faculty member in the student’s home department, unless an explicit exception is approved by both departments.

Program Committee
Pysklywec, Russell - BSc, PhD – Geology
Bailey, Richard - BSc, PhD – Geology and Physics
(Chair)
Shepherd, Theodore - BSc, PhD – Physics
Global Health

Lead Faculty
Medicine

Participating Degree Programs
Anthropology – PhD
Health Policy, Management and Evaluation – PhD
Law – SJD
Nursing Science – PhD
Pharmaceutical Science – PhD
Political Science – PhD
Public Health Sciences – PhD
Rehabilitation Science – PhD

Overview
The graduate programs listed above participate in the Collaborative Doctoral Program in Global Health. This program offers doctoral students the opportunity to develop cooperative and interdisciplinary graduate education and research in global health. We view global health as an integrative construct that focuses on the inter-relationships between local, regional, national, and international factors influencing health and effective interventions and policies that will address these factors. This collaborative program enhances the student experience by offering a broad base of faculty expertise and an opportunity to share research ideas and results from multiple disciplinary perspectives. The Collaborative Doctoral Program in Global Health signals the University’s commitment to improving the well-being of people in Canada and around the world through higher education and advanced research in global health.

Student research is supervised by a member of the graduate faculty in the home unit. Normally students in the collaborative program are supervised by a member of the collaborative program’s core faculty, or have a core faculty member serve on the supervisory committee. The home unit shall recommend the granting of the degree. With the approval of the Collaborative Program Director, upon completion of the program requirements, the designation “Completed the Collaborative Graduate Program in Global Health” shall be shown on the transcript.

Contact and Address
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Director: donald.cole@utoronto.ca
Telephone: (416) 978-2058
Fax: (416) 978-1883

Collaborative Doctoral Program in Global Health
c/o Department of Public Health Sciences
University of Toronto
Health Sciences Building
6th floor, 155 College Street
Toronto, Ontario M5T 3M7
Canada

Doctoral Level

Admission Requirements
• Applicants must meet the admission requirements of both the home graduate program in which they are registered as well as the collaborative program.
• Applicants must be admitted to a doctoral program in one of the home departments before they may apply to the Collaborative Doctoral Program in Global Health.

Program Requirements
• Meet all the degree requirements of the School of Graduate Studies, the home graduate unit, and the Collaborative Doctoral Program in Global Health.
• Successfully complete:
  ○ NUR 1083H Comparative Politics of Health and Health Policy in a Globalizing World
  ○ one elective (outside of the home department) selected from the list below
  ○ participation in CHL 5701H (0.5 FCE) global health research seminar series for the equivalent of three academic sessions
  ○ a thesis on an issue related to global health, to be approved by both the home unit and the collaborative program committee

Course List
Not all courses are offered every year. Please refer to the participating graduate units’ websites for a current list of course offerings.

Core Course
CHL 5701H Doctoral Seminar, Collaborative Program in Global Health.
NUR 1083H Comparative Politics of Health Policy in a Globalizing World (Where possible, this required core course may be taken as an elective within regular departmental degree requirements, not as an additional course.)

Elective Courses
Anthropology
ANT 6003H Critical Issues in Ethnography I
ANT 6004H Critical Issues in Ethnography II
Collaborative Programs

ANT 6023H Governmentality, Development and the Improvement of the World
ANT 6032H Social Movements: Interrogating Power and Protest in a Global Context
ANT 6040H Approaches to Fieldwork I
ANT 7001H Medical Anthropology I
ANT 7002H Medical Anthropology II

Bioethics
CHL 5121H Genomics, Bioethics and Public Policy
MSC 3003Y Empirical Approaches to Bioethics
MSC 3010Y International Research Ethics
PHL 2146Y Topics in Bioethics
JHM 1000H Issues Analysis in Interdisciplinary International Health Research

Health Policy, Management and Evaluation
HAD 5768H International Perspectives on Health Services Management
HAD 5770H Program Planning and Evaluation
HAD 5771H Resource Allocation Ethics
HAD 5774H Comparative Health Care Systems

Law
Participation in LAW courses is at the discretion of the Faculty of Law upon presentation, to the Faculty of Law Records Office, of a signed permission form from the student’s home department. Note that preference is given to JD students and that many law courses are full by the end of the Faculty of Law add/drop period.

LAW 294H The Law and Praxis of International Human Rights
LAW 301H Women’s Rights in International Law
LAW 386H Reproductive and Sexual Health Law
LAW 388H Public Health Law
LAW 576H Can there be Universal Human Rights

Nursing
NUR 1024H Foundations of Qualitative Inquiry
NUR 1025H Doing Qualitative Research: Design and Data Collection
NUR 1082H Knowledge Production in Nursing and Health
NUR 1083H Comparative Politics of Health Policy in a Globalizing World (required course)

Pharmacy
PHM 1124H The Power and Politics of Global Pharmaceutical Policy
PHM 1125H Complementary/Alternative Medicine: Health System and Policy Issues

Political Science
JPD 2232H International Governance
JPE 2408Y Political Economy of International Development
JPF 2430Y Cities
POL 2205H Topics in International Politics I
POL 2207H Topics in International Politics III
POL 2212Y Canada and the Third World
POL 2217Y Politics of the International System
POL 2226H Ethics and International Relations
POL 2318H Comparative Public Policy: Selected areas
POL 2409Y Politics and Planning in third world Cities

Public Health Sciences
CHL 5119H Qualitative Analysis and Interpretation
CHL 5117H A Global Perspective on the Health of Women and Children
CHL 5118H International Health, Human Rights and Peace-Building
CHL 5411H International Health
CHL 5419H Empirical Perspectives on Social Organization and Health
CHL 5420H Global Health Research
CHL 5421H Aboriginal Health
CHL 5702H History of International Health
CHL 5903H Environmental Health
CHL 7001H History of International Health

Program Committee
Sellen, Daniel - BA, MA, PhD, CRC – Anthropology
Wardlow, Holly - BA, MPH, PhD – Anthropology
Howard, Andrew - MD, MSc, FRCS(C) – Health Policy, Management & Evaluation
Lemmens, Trudo - LLM, DCL – Law
Muntaner, Carles - MD, PhD – Nursing Science
Cohen-Kohler, Jillian - BA, MA, PhD – Pharmaceutical Sciences
Birn, Anne-Emanuelle - BA, MA, DSc – Public Health Sciences
Cole, Donald C. - MSc, MD – Public Health Sciences
Orbinski, James - MA, MSc, MD – Public Health Sciences
Samuels, Jeannie - MA – Public Health Sciences
Taleski, Sarah - MHS – Public Health Sciences
Nixon, Stephanie - BHSc, MSc, PhD – Rehabilitation Sciences
Health Care, Technology and Place

Lead Faculty
Medicine

Participating Degree Programs
Biomedical Engineering – PhD
English – PhD
Health Policy, Management and Evaluation – PhD
Mechanical and Industrial Engineering – PhD
Medical Science – PhD
Nursing Science – PhD
Pharmaceutical Sciences – PhD
Public Health Sciences – PhD
Rehabilitation Science – PhD
Social Work – PhD

Overview
The graduate programs listed above participate in the HCTP Collaborative Program. The objectives of the Health Care, Technology and Place (HCTP) Collaborative Program are to:
1. prepare doctoral students to understand, explain, and improve health outcomes associated with geographically-dispersed and technologically-mediated health care;
2. bridge knowledge gaps among doctoral students working in the life sciences, physical sciences, social sciences, and humanities who are concerned with the interconnectedness of bodies, technologies, places, and modes of work in contemporary health care; and
3. provide mentorship in interdisciplinary scholarship, including leadership skills, collaboration, grant writing, and knowledge exchange. Ultimately the goal is to facilitate research conducted by scientifically-informed humanists and philosophically-informed physical and social scientists.

Collaborative programs are administered under the auspices of the School of Graduate Studies. Students who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments. Applicants may apply concurrently to the participating home graduate unit and to the HCTP Collaborative Program. Students follow a course of study acceptable to both the home unit and the HCTP Collaborative Program.

Contact and Address
Web: www.hctp.utoronto.ca
Email: hctp.program@utoronto.ca
Telephone: (416) 978-2067
Fax: (416) 978-7350

Doctoral Level
Admission Requirements
• Applicants must apply to a participating graduate unit and comply with the admission procedures of that unit.
• Applicants must forward the following to the Program Committee of the HCTP Collaborative Program:
  ○ a copy of the School of Graduate Studies application form submitted to the participating graduate unit;
  ○ copies of official undergraduate and graduate transcripts from all institutions previously or currently attended, which should reflect a minimum 3.5 GPA (A-);
  ○ a resume or curriculum vitae;
  ○ a research plan (maximum 800 words) summarizing research goals and past research experience, the relevance of the HCTP Program to this plan, and justification for the identified HCTP project mentor;
  ○ two confidential letters of recommendation from scholars familiar with the applicant’s research background and aptitude for the interdisciplinary study;
  ○ a confidential letter from an HCTP mentor providing: formal agreement to participate on the applicant’s dissertation committee; and commentary written for reviewers outside the discipline, evaluating the applicant’s level of achievement relative to peers in the same discipline, the objectives and methods of the proposed program of research, and the relative merit of such research within the applicant’s home discipline.

Program Requirements
• At least 0.5 HCTP full-course equivalent (FCE).
• Students must participate actively in the seminar series during their involvement with HCTP.
• Students must participate in at least one Annual Interdisciplinary Research Workshop.
• Completion of a dissertation under the supervision of a core faculty member in the student’s home department. The dissertation must address the theme of "health care, technology, and place."
Collaborative Programs

- It is the objective of this collaborative program to enrich the PhD experience without unduly extending the duration of students’ graduate education. Every student enrolled in the collaborative doctoral program must complete the requirements of the collaborative program and the requirements of the doctoral program in their home graduate unit. It will be up to each participating home department to determine whether HCTP courses are completed in addition to the department’s customary course requirements or as a part of those requirements.

Core Courses

JNH 5001H  Health Care Settings, Sites and Human Well-Being
JNH 5002H  The Body, Health Care, Technology and Place
BME 1456H  Changing Health Care Technologies, People and Places
NUR 1031H  Technology and Place in Contemporary Health Care Work

Program Committee

Fernie, Geoffrey - BSc, PhD, PEng, CCE – Biomedical Engineering
Bewell, Alan - BA, MA, PhD – English
Coyte, Peter C. - BA, MA, PhD – Health Policy, Management & Evaluation (Director)
Rotstein, Ori - MSc, MD, FRCS(C) – Medical Science
O’Brien-Pallas, Lind - RN, PhD, FCAHS – Nursing Science
MacKeigan, Linda - BScPhm, PhD – Pharmaceutical Sciences
Ahmad, Farah - MBBS, MPH, PhD – Public Health Sciences
Reid, Denise - BSc(OT), MEd, PhD – Rehabilitation Science
Newman, Peter - BA, MSW, MS, PhD – Social Work
Health Services and Policy Research

Lead Faculty

Medicine

Participating Degree Programs

Exercise Sciences – MSc, PhD
Health Policy, Management and Evaluation – MSc, PhD
Medical Science – MSc, PhD
Nursing Science – PhD
Pharmaceutical Science – MSc, PhD
Public Health Sciences – MPH, PhD
Rehabilitation Sciences – MSc, PhD
Social Work – MSW, PhD

Overview

The Collaborative Program in Health Services and Policy Research is part of the Ontario Training Centre in Health Services and Policy Research (OTC). The OTC is a consortium of six Ontario Universities seeking to improve graduate education for students who are interested in becoming health services and policy researchers. The consortium includes Lakehead, Laurentian, McMaster, and York Universities as well as the Universities of Ottawa and Toronto. Participating graduate programs at the University of Toronto are listed above.

Graduates of the collaborative program demonstrate knowledge of Canada’s health-care system, health services and policy research tools, and theories of population health, knowledge production and knowledge transfer. Students complete relevant courses required by the collaborative program as well as by the home unit. Students must complete a dissertation under the supervision of a core faculty member of the collaborative program in the student’s home department that addresses the theme of health services and policy research.

Contact and Address

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Collaborative Graduate Program in Health Services and Policy Research
c/o Professor R.W. Cockerill
Department of Health Policy, Management and Evaluation
Faculty of Medicine
University of Toronto
Suite 428, 4th Floor, 55 College Street
Toronto, Ontario M5T 3M6
Canada

Master’s Level

Admission Requirements

• Students who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
• Master’s students are accepted under the School of Graduate Studies general regulations and the specific criteria of the participating unit.
• An overall B+ average in the last two years of an appropriate bachelor’s degree from a recognized university.
• An interest in health services and policy research outlined in an autobiographical letter including the student’s reasons for becoming a health services or policy researcher.

Program Requirements

• Students follow a program of study acceptable to both the participating unit and the collaborative program.
• Students must complete the requirements of the collaborative program (completion of a practicum and participation in one Summer Institute) in addition to those requirements for the masters degree program specified by their home graduate unit.
• Students are required to write a thesis under the supervision of a core faculty member of the collaborative program. The thesis must address the theme of health services and policy research.
• In addition to the requirements for the degree program specified by the home graduate unit, students must complete a practicum and participate in one Summer Institute hosted by the OTC.

Doctoral Level

Admission Requirements

• Students who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
• Doctoral students are accepted under the School of Graduate Studies general regulations and the specific criteria of the participating unit.
• Applicants are required to:
  o demonstrate academic excellence in completed courses (B+ average in graduate courses), scholarships and academic awards received;
  o demonstrate aptitude for health services and policy research (letter of recommendation from a previous professor or thesis supervisor)
commenting on the student’s academic abilities and likelihood for success as a health services researcher); 

- outline career plans (in an autobiographical letter including their reasons for becoming a health services researcher and their career plans); and

- propose a plan of study in the collaborative program.

- Students who complete the collaborative program at the master’s level are not eligible to participate at the PhD level.

Program Requirements

- Students follow a program of study acceptable to both the participating unit and the collaborative program.

- Students must complete the requirements of the collaborative program (completion of a practicum and participation in one Summer Institute) in addition to those requirements for the doctoral degree program specified by their home graduate unit.

- Students are required to complete a dissertation under the supervision of a core faculty member of the collaborative program. The dissertation must address the theme of health services and policy research.

- In addition to the requirements for the degree program specified by the home graduate unit, students must complete a practicum and participate in one Summer Institute hosted by the OTC.

Course List

1. Courses offered by the University of Toronto departments involved in the OTC are listed in the separate calendar entries of Health Policy, Management and Evaluation; Medical Science, Nursing Science; Pharmaceutical Sciences; Public Health Sciences; Rehabilitation Science; and Social Work.

2. Research and Policy Practicum - HSR 1000H Research and/or Policy Practicum. By working with a health services and policy research team, the student develops practical skills in completing a research and/or policy project and effectively communicating the results of that research to stakeholders.

3. Summer Institute - a five-day workshop held at one of the participating universities. All students must participate and are graded on a Credit/No Credit (CR/NCR) basis.

Program Committee

Thomas, Scott - BSc, MSc, PhD – Exercise Sciences
Cockerill, Rhonda - BA, MA, PhD – Health Policy, Management & Evaluation (Director)

Coyte, Peter C. - BA, MA, PhD – Health Policy, Management & Evaluation
Bierman, Arlene - BA, MS, MD – Medical Sciences
Doran, Diane - RN, BA, MHSc, PhD – Nursing Science
Goering, Paula - RN, BSN, MSN, PhD – Nursing Science
O’Brien-Pallas, Linda-Lee - BScN, MScN, PhD, National Research Chair in Nursing Human Resources – Nursing Science
Boon, Heather - BScPhm, PhD – Pharmaceutical Sciences
Harvey, Bart - BA, MD, MSc, FRCP(C), FACPM, PhD – Public Health Sciences
Jaglal, Susan - BSc, MSc, PhD – Rehabilitation Science
Williams, Charmaine - BSc, BA, MSW, PhD – Social Work
Jewish Studies

Lead Faculty
Arts and Science

Participating Degree Programs
- Anthropology – MA, PhD
- Classics – MA, PhD
- Comparative Literature – MA
- Drama – MA, PhD
- English – MA, PhD
- European, Russian, and Eurasian Studies – MA
- German Literature, Culture, and Theory – MA, PhD
- History – MA, PhD
- History of Art – MA, PhD
- Medieval Studies – MA, PhD
- Near and Middle Eastern Civilizations – MA, PhD
- Philosophy – MA, PhD
- Political Science – MA, PhD
- Religion – MA, PhD
- Slavic Languages and Literatures – MA, PhD
- Sociology – MA, PhD
- Women and Gender Studies – MA

Overview
The Collaborative Program in Jewish Studies offers both broad and intensive exposure to the constituent fields within Jewish Studies. Because of Jewish civilization’s vast chronological and geographical range, as well as its constant interaction and cross-fertilization with other cultures, graduate work within Jewish Studies demands intensive exposure to a wide variety of languages, textual traditions, and scholarly disciplines.

The collaborative program involves the graduate doctoral and master’s programs listed above. Upon successful completion of the master’s requirements of the home department and the program, students receive the designation “Completed Collaborative Program in Jewish Studies” on their transcript. Upon successful completion of the doctoral requirements of the home department and the program, students receive, in addition to the doctoral degree in their home department, the notation “Completed Collaborative Program in Jewish Studies.”

Contact and Address
Web: www.cjs.utoronto.ca
Email: cjs.director@utoronto.ca
Telephone: (416) 978-1624
Fax: (416) 946-7719

Master's Level

Admission Requirements
- In addition to the admission requirements of the home department, sufficient linguistic knowledge, textual training, and familiarity with relevant scholarship in order to carry out graduate work in Jewish Studies within the chosen field are required.

Program Requirements
- Completion of CJS 1000H, the core methods seminar in Jewish Studies. This seminar will introduce students to the different disciplines, methods, and approaches within Jewish Studies.
- 0.5 full course equivalent (FCE) in Jewish Studies taken within the student’s home department or in another department (may count towards the course requirements of the student’s home department).
- A comprehensive exam in Jewish Studies, supervised by a faculty member chosen from Jewish Studies and in consultation with the graduate chair from the student’s home department, in which the student will be asked to show knowledge of areas of Jewish Studies relevant to his or her disciplinary focus.
- If the student’s home program requires a major research paper or thesis, the focus of the paper must pertain to Jewish Studies, and the topic must be approved by the Director of the Collaborative Master’s Program.

Doctoral Level

Admission Requirements
- In addition to the admission requirements of the home department, sufficient linguistic knowledge, textual training, and familiarity with relevant scholarship in order to carry out graduate work in Jewish Studies within the chosen field are required.

Program Requirements
- Completion of CJS 2000H, the core research colloquium in Jewish Studies that runs biweekly throughout the year.
- Two half-courses (1.0 FCE) one within and one outside of the student’s home department, taught by a member of the CJS faculty (may count towards
the course requirements of the student’s home department).

- A doctoral dissertation that deals substantively with topics in Jewish Studies and is supervised or co-supervised by a CJS graduate faculty member.

- Students will be required to give one presentation at the Jewish Studies graduate student conference over the course of their doctoral program. The conference will be held each year in the spring. The paper presentation needs to be completed before the completion of the doctoral program.

Course List

Not all courses are offered every year. Please consult the graduate unit for information about course availability.

Courses marked with # are taught by Program faculty and incorporate themes within and outside of Jewish Studies. Major research and writing assignments for such courses must focus on topics in Jewish Studies.

Core Courses

CJS 1000H Jewish Studies Master’s Seminar
CJS 2000H Jewish Studies Doctoral Seminar

Elective Courses

Anthropology

ANT 5146H# Colonial and Post-Colonial Discourses

Comparative Literature/Germanic Languages and Literatures

JGC 1750H# Modernity and its Discontents

English

ENG 1027H# Construction of the Other in Medieval Literature (Jews and Muslims)
ENG 5023H Elegy, the Elegiac and the Judaic in Twentieth-Century Anglo-American Poetry
ENG 5573H# Performance and Identity in America
ENG 5578H Parvenus and Passing in Modern American Literature

Germanic Languages and Literatures

GER 1530H Heine and Critical Theory

History

HIS 1267H Nationalism
HIS 1274H The Nazis, Occupied Europe, and the Jews
HIS 1276H The Third Reich and the Holocaust
HIS 1277H Topics in Jewish History
HIS 1279H World War II in East Central Europe
HIS 1287H Polish Jews Since the Partitions of Poland

Medieval Studies

MST 3210H Medieval Spain
MST 3225H# Jews and Christians in Medieval and Renaissance Europe

Near and Middle Eastern Civilizations

NMC 1100Y# Introduction to Aramaic
NMC 1101Y# Early Syriac Texts
NMC 1102Y Palestinian Aramaic Texts
NMC 1104Y# Aramaic Epigraphy
NMC 1105Y# Syriac Historical Texts
NMC 1106Y# Syriac Exegetical Texts
NMC 1111Y# Babylonian Aramaic
NMC 1300Y Intensive Prerequisite Hebrew
NMC 1304Y Biblical Narrative
NMC 1306H Scribes, Manuscripts, and Translations of the Hebrew Bible
NMC 1308H# Prophecy in Ancient Israel
NMC 1309H# Wisdom in Ancient Israel
NMC 1311Y Post Biblical Hebrew: Mishnah and Midrashim
NMC 1312H Midrash Before the Rabbis: The Beginnings of Biblical Interpretation
NMC 1313H Mishna and Tosefta
NMC 1316H Modern Hebrew Poetry
NMC 1317H Modern Hebrew Prose
NMC 1318Y Midreshei Halakha
NMC 1324Y Hebrew Legal Codes
NMC 1326Y Topics in Midrashic Literature
NMC 1608Y Life Cycle and Personal Status in Judaism: Reproductive Technology and Jewish Law
NMC 1609Y# Gender-related Topics in Law and Religion

Philosophy

Various courses, depending upon their content in a given year. Consult the Collaborative Program Director.

PHL 2084H# Seminar in Nineteenth-Century Continental Philosophy
PHL 2089H# Seminar in Twentieth-Century Continental Philosophy
PHL 2090H# Hermeneutics

Political Science

POL 2021Y# Topics in Comparative Jewish and Non-Jewish Political Thought

Religion

RLG 2012Y Natural Law in Judaism and Christianity
RLG 2018H# Religion and Bioethics
RLG 3103H Problems in Israelite Religion
RLG 3611H Topics in Rabbinic Midrash
RLG 3641H Interpretations of Jewish Tradition
RLG 3621H Modern Jewish Thought
RLG 3622H Maimonides and his Modern Interpreters
RLG 3623H The Thought of Leo Strauss: Philosophy, Theology and Politics
RLG 3624Y# The Jurisprudence of Maimonides
RLG 3634H# Worship and Scripture at Qumran
Collaborative Programs

RLG 3641H Interpretations of Jewish Tradition
RLG 3645Y The Jewish Legal Tradition
RLG 3647H Early Rabbinic Judaism
RLG 3661H# Judaism and Philosophy
RLG 3692H# Themes in Jewish Studies II
RLG 3655H Readings in Jewish Literature

Slavic Languages and Literatures
SLA 1207H The Imaginary Jew

Program Committee
Kalmar, Ivan - BA, MA, PhD – Anthropology
Cohen, Adam - BA, MA, PhD – Art
Inwood, Brad - BA, MA, PhD – Classics
Ross, Jill - BA, MA, PhD – Comparative Literature
Most, Andrea - BA, MA, PhD – English
Goetschel, Willi - LicPhil, PhD – German
Penslar, Derek - BA, MA, PhD – History
Meyerson, Mark - BA, MA, PhD – Medieval Studies
Meacham, Tirzah - BA, MA, PhD – Near & Middle Eastern Civilizations
Gibbs, Robert - BA, MA, PhD – Philosophy
Kopstein, Jeffrey - BA, MA, PhD – Political Science
Novak, David - AB, MHL, rabbinical diploma, PhD – Religion
Livak, Leonid - BA, MA, PhD – Slavic Languages & Literatures
Bodemann, Michal - MA, PhD – Sociology
Knowledge Media Design

Lead Faculty

Information

Participating Degree Programs

Architecture – MArch
Computer Science – MSc, PhD
Curriculum Studies and Teacher Development – MA, MEd, PhD
History and Philosophy of Education – MA, MEd
Information – MI
Information Studies – PhD
Landscape Architecture – MLA
Mechanical and Industrial Engineering – MASc, MEng, PhD
Medical Science – MSc, PhD
Sociology – MA, PhD
Urban Design – MUD
Visual Studies – MVS

Overview

The Collaborative Program in Knowledge Media Design (KMD) was launched in 2002 as the teaching arm of the Knowledge Media Design Institute (KMDI). The collaborative program provides a specialization for graduate students from a variety of academic backgrounds to engage in the design, prototyping, evaluation, and use of knowledge media. In keeping with KMDI's human-centred approach, students explore the design and use of new media in the context of real world practices of individuals and communities. Access to an intensely collaborative and cross-disciplinary faculty encourages students to take a broader view of technological and social change and to be constructively critical of technological utopian and dystopian visions alike. The goal is for students to take into account heritage and history, to understand the realities of today, and to design for tomorrow.

Students have access to a community of scholars and the network of relationships that the Institute coordinates. They gain first-hand experience of a living network of innovation, an environment in which the resources are people and knowledge and the social capital and value that are generated through collaboration.

The collaborative program is open to master's and PhD students in the collaborating graduate programs listed above.

Contact and Address

Web: http://kmdi.utoronto.ca/graduate-study
Email: admissions@kmdi.utoronto.ca
Telephone: (416) 946-8515
Fax: (416) 978-5634

Collaborative Program in Knowledge Media Design
Knowledge Media Design Institute
University of Toronto
Bahen Building
7th Floor, 40 St. George Street
Toronto, Ontario M5S 2E4
Canada

Master's Level

Admission Requirements

• Students wishing to apply to the collaborative program must be enrolled, or anticipate being enrolled, in a collaborating degree program in one of the collaborating graduate programs. Applying to the collaborative program is a separate procedure. A collaborative program application includes: a completed Application for Admission Form, a statement of research interest, a resume, two letters of reference, and academic transcripts. Consult the KMDI website for application guidelines. Admission will be subject to the approval of the graduate department concerned and the Program Committee of the collaborative program.

Program Requirements

• Students must meet all the requirements of their home department.
• Master’s students must successfully complete KMD 1001H, KMD 1002H, and 0.5 full-course equivalent (FCE) from the KMD 2001–2004 series or a list of recognized affiliate courses. They also must submit a portfolio that includes completed student research in knowledge media design. The program committee of the collaborative program will review all portfolios for their quality and contribution to the field.
• Master’s students are encouraged, but not obligated, to complete a thesis/research project component in their home department, the topic of which should be relevant to the field of knowledge media design. Students’ KMD portfolio will be a component of their thesis/research project.
• Collaborative program courses may count towards the home department degree requirements or may be in addition to the degree requirements, depending on the participating department’s individual program regulations.

Doctoral Level

Admission Requirements

• Students wishing to apply to the collaborative program must be enrolled, or anticipate being
enrolled, in a collaborating degree program in one of the collaborating graduate programs. Applying to the collaborative program is a separate procedure. Consult the KMDI website for application guidelines. Admission will be subject to the approval of the graduate department concerned and the Program Committee of the collaborative program.

Program Requirements

- Doctoral students are required to take KMD 1001H and KMD 1002H if not already taken in the master’s program, and 0.5 full-course equivalent (FCE) from the KMD 2001–2004 series or a list of recognized affiliate courses. They also must submit a portfolio that includes completed student research in knowledge media design. The Program Committee of the collaborative program will review all portfolios for their quality and contribution to the field.
- The dissertation topic must be in the field of knowledge media design. The thesis advisor and at least one other committee member must be from participating units. Students’ KMD portfolio will most often be connected with their dissertation proposal.
- The home graduate unit and the student’s supervising committee will determine further requirements. The collaborating units cooperate in jointly developing a program that is individually tailored to meet the needs of each student.

Course List

For courses offered in a particular year, check the collaborative program website, http://kmdi.utoronto.ca/graduate.

Knowledge Media Design

Required

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMD 1001H</td>
<td>Core Seminar in Knowledge Media Design I—Fundamental Concepts</td>
</tr>
<tr>
<td>KMD 1002H</td>
<td>Pro-seminar in Knowledge Media Design II—Contexts and Practices</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMD 2001H</td>
<td>Human-centred Design</td>
</tr>
<tr>
<td>KMD 2002H</td>
<td>Technologies for Knowledge Media</td>
</tr>
<tr>
<td>KMD 2003H</td>
<td>Knowledge Media and Learning (exclusion: CTL 1926H)</td>
</tr>
<tr>
<td>KMD 2004H</td>
<td>Knowledge Media, Culture and Society</td>
</tr>
</tbody>
</table>

Participating Department Electives

Existing courses from the participating departments that satisfy KMD requirements are listed below. These courses may not be offered every year. Courses that are mandatory for a student’s degree from the home department cannot normally be counted. Some of the elective courses may require a significant amount of background knowledge and experience. Enrolment in such courses may require the permission of the instructor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC 1033H</td>
<td>Architecture, Media and Communications</td>
</tr>
<tr>
<td>C&amp;T 1004H</td>
<td>Communications: History/Theory/Technology</td>
</tr>
<tr>
<td>C&amp;T 1005H</td>
<td>Understanding McLuhan</td>
</tr>
<tr>
<td>C&amp;T 1006H</td>
<td>Media, Mind and Society I</td>
</tr>
<tr>
<td>C&amp;T 1009H</td>
<td>New Media and Policy</td>
</tr>
<tr>
<td>CSC 2501H</td>
<td>Computational Linguistics</td>
</tr>
<tr>
<td>CSC 2502H</td>
<td>Knowledge Representation and Reasoning</td>
</tr>
<tr>
<td>CSC 2504H</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>CSC 2507H</td>
<td>Conceptual Modelling</td>
</tr>
<tr>
<td>CSC 2511H</td>
<td>Natural Language Computing</td>
</tr>
<tr>
<td>CSC 2514H</td>
<td>Human-Computer Interaction</td>
</tr>
<tr>
<td>CSC 2518H</td>
<td>Spoken Language Processing</td>
</tr>
<tr>
<td>CSC 2527H</td>
<td>The Business of Software</td>
</tr>
<tr>
<td>CTL 1602H</td>
<td>Introduction to Computers in Education</td>
</tr>
<tr>
<td>CTL 1603H</td>
<td>Introduction to Knowledge Building</td>
</tr>
<tr>
<td>CTL 1608H</td>
<td>Constructive Learning and Design of Online Environments</td>
</tr>
<tr>
<td>CTL 1609H</td>
<td>Educational Applications of Computer Mediated Communication</td>
</tr>
<tr>
<td>CTL 1923H</td>
<td>Technology Supported in Situ Learning</td>
</tr>
<tr>
<td>CTL 1926H</td>
<td>Knowledge Media and Learning (exclusion: KMD 2003H)</td>
</tr>
<tr>
<td>FAH 1478H</td>
<td>Art and Animation</td>
</tr>
<tr>
<td>INF 1230H</td>
<td>Management of Information Organizations</td>
</tr>
<tr>
<td>INF 1340H</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>INF 1341H</td>
<td>Analyzing Information Systems</td>
</tr>
<tr>
<td>INF 1342H</td>
<td>Designing Information Systems</td>
</tr>
<tr>
<td>INF 1343H</td>
<td>Data Modeling and Database Design</td>
</tr>
<tr>
<td>INF 2149H</td>
<td>Administrative Decision-Making in Information Organizations</td>
</tr>
<tr>
<td>INF 2150H</td>
<td>Advanced Management of Information Organizations</td>
</tr>
<tr>
<td>INF 2164H</td>
<td>Authority and Credibility in Online Communications</td>
</tr>
<tr>
<td>INF 2169H</td>
<td>User-Centred Information Systems Development</td>
</tr>
<tr>
<td>INF 2183H</td>
<td>Knowledge Management and Systems</td>
</tr>
<tr>
<td>INF 2241H</td>
<td>Critical Making: Information Studies, Social Values and Physical Computing</td>
</tr>
<tr>
<td>MIE 1402H</td>
<td>Experimental Methods in Human Factors Research</td>
</tr>
<tr>
<td>MIE 1403H</td>
<td>Analytical Methods in Human Factors Research</td>
</tr>
<tr>
<td>MIE 1407H</td>
<td>Engineering Psychology and Human Performance</td>
</tr>
<tr>
<td>MIE 1502H</td>
<td>Information Technology and Systems: Management Strategies</td>
</tr>
<tr>
<td>MIE 1504H</td>
<td>Management of Technological Change</td>
</tr>
<tr>
<td>MSL 2325H</td>
<td>Museums and New Media Practice</td>
</tr>
<tr>
<td>SOC 6008H</td>
<td>Network Analysis I</td>
</tr>
<tr>
<td>SOC 6108H</td>
<td>Network Analysis II</td>
</tr>
<tr>
<td>SOC 6303H</td>
<td>Field Methods</td>
</tr>
<tr>
<td>SOC 6312H</td>
<td>Social Aspects of Technology and Work</td>
</tr>
<tr>
<td>SOC 6501H</td>
<td>Research Design and Hypothesis Testing in Sociology</td>
</tr>
</tbody>
</table>
Collaborative Programs

TPS 1447H Technology in Education: Philosophical Issues
TPS 1839H Administration of Technology in Higher Education
TPS 1005H The Computer in Educational Administration
VIS 1010H Contemporary Art Since 1960
VIS 1020H Contemporary Art: Theory and Criticism
VIS 2002H Contemporary Art Issues

Program Committee
Danahy, John - BLA, C UrbDes, M Sc UrbDesPl – Architecture, Landscape, & Design
Penn, Gerald - BSc, MSc, PhD – Computer Science
Slotta, James - MA, PhD – Curriculum Studies and Teacher Development, Curriculum Teaching & Learning

(B) Director
Boler, Megan - BA, PhD – History & Philosophy of Education, Theory & Policy Studies in Education
Caidi, Nadia - BA, MA, MLS, PhD – Information
Chignell, Mark - BSc, MSc, PhD – Mechanical & Industrial Engineering
Soren, Barbara - BPHE, BEd, MSc(T), PhD – Museum Studies, Information
Berry, Brent - BA, PhD – Sociology
Steele, Lisa - RCA, honourary PhD OCAD – Visual Studies, Art
Management and Economics

Lead Faculty
Arts and Science

Participating Degree Programs
Economics – PhD
Management – PhD

Overview
The Rotman School of Management and the Department of Economics offer a limited enrolment collaborative program in Management and Economics. The student will undertake a program of study that includes: developing a basic understanding in one of the core areas of management (accounting, economics, finance, marketing, operations management, organizational behaviour); developing an in-depth understanding of economics and econometrics (PhD-level work); and carrying out PhD-level work in one of the areas of management. At present, only finance is available in the collaborative program.

Contact and Address
Web: www.economics.utoronto.ca
Email: ecograd@chass.utoronto.ca
Telephone: (416) 978-7169
Fax: (416) 978-6713

Collaborative Program in Management and Economics
Department of Economics
University of Toronto
Room 4072, Sidney Smith Hall
Toronto, Ontario M5S 3G3
Canada

Doctoral Level

Admission Requirements
- Admission to the program is by permission of graduate coordinators in Economics and Management. Prospective applicants should apply to the Department of Economics, and must meet admission requirements of the Department of Economics.
- Minimum admission requirements are the same as for the PhD program in Economics. Students should have a strong undergraduate and master’s background in economic theory and mathematics.
- Preference is given to students with undergraduate or other previous coursework in commerce or business, especially finance and accounting.

Program Requirements
- The PhD is a full-time program. Applicants must be registered as full-time students for a minimum period of three years.
- The PhD is a research degree that requires:
  - demonstrated competence in core economics, in finance, and a second special field in economics;
  - fulfillment of a breadth/distribution requirement in management and finance;
  - a thesis based on original research.
- To fulfill the program requirements outlined below, students will complete all of their comprehensive exams in two years, and their required coursework in 2.5 years.
  - Year 1: Students must take the Math-Stat Review (ECO 1011H), the PhD microeconomic theory sequence (ECO 2020H and ECO 2030H), the PhD econometrics sequence (ECO 2400H and ECO 2401H), and the first two courses of the Rotman Finance sequence (MGT 3030H and MGT 3031H). They must also complete (or be exempt from) Financial Accounting (MGT 1221H or MGT 1222H), and Business Finance by the end of Year 1. Students can satisfy the Business Finance requirement by taking ECO 2503H. Students must pass the microeconomic theory comprehensive exam by the end of Year 1.
  - Year 2: Students complete the PhD sequence in macroeconomics (ECO 2021H and ECO 2031H), and satisfy their main field requirement by completing the PhD Finance sequence (MGT 3032H, MGT 3033H, and MGT 3034H). Students must pass the comprehensive exam in macro, as well as the Rotman Finance comprehensive exam. Students satisfy the distributional requirement in economics by taking two courses from a list approved by the Department of Economics. This comprises the minor field; note that the Financial Economics field is excluded from this list. Students should also attend the Finance seminar on a regular basis, beginning in Year 2.
  - Year 3: Students complete their management distributional requirement by taking two courses in a stream approved by the Rotman School of Management, drawn from the second-year MBA courses (i.e., MGT 2300 series). Students must participate in the Graduate Research Seminar (ECO 4060Y), and present a “second year” paper proposal by February of Year 3. The completed “second year” paper must be presented in the Finance Seminar by the Fall of Year 4.
  - Years 4 and 5: Students complete their dissertation.
Collaborative Programs

Course List
See the separate entries in this calendar for the Economics and Management PhD programs.

Program Committee
Yatchew, Adonis - BA, MA, PhD – Economics
Pauly, Peter - MA, PhD – Management
Neuroscience

Lead Faculty
Medicine

Participating Degree Programs
Biochemistry – MSc, PhD
Biomedical Engineering – MASc, MSc, PhD
Cell and Systems Biology – MSc, PhD
Dentistry – MSc, PhD
Developmental Psychology and Education – MA, PhD
Laboratory Medicine and Pathobiology – MSc, PhD
Medical Biophysics – MSc, PhD
Medical Science – MSc, PhD
Molecular Genetics – MSc, PhD
Pharmacology – MSc, PhD
Pharmaceutical Sciences – MSc, PhD
Physiology – MSc, PhD
Psychology – MA, PhD
Rehabilitation Science – MSc, PhD
School and Clinical Child Psychology – MA, PhD
Speech-Language Pathology – MSc, PhD

Overview
The graduate programs listed above participate in the Collaborative Program in Neuroscience. Participating graduate units contribute courses and provide facilities and supervision for graduate research. Students must follow a program of studies acceptable to both the participating unit and the Neuroscience Program. Upon successful completion of the requirements, students receive, in addition to the master’s or PhD degree in their discipline, the notation “Completed Collaborative Program in Neuroscience” on their transcripts as well as a certificate.

Students interested in joining the program should contact the Collaborative Program in Neuroscience office to obtain an application form. Students should register within one month of initial registration in the participating unit. The Neuroscience website provides areas of research for all the faculty in the collaborative program and their graduate unit affiliations and contact information, as well as additional information on neuroscience courses.

Students in the program receive the University of Toronto Neuroscience Program (UTNP) newsletter and a monthly calendar listing neuroscience lectures held on campus. The program runs a Distinguished Lecturer series of talks by eminent neuroscientists and an annual poster day which students are required to attend.

Contact and Address
Web: www.neuroscience.utoronto.ca
Email: p.neuroscience@utoronto.ca
Telephone: (416) 978-8761
Fax: (416) 978-8511

Collaborative Program in Neuroscience
University of Toronto
Leslie Dan Faculty of Pharmacy Building
Room 904, 144 College Street
Toronto, Ontario M5S 3M2
Canada

Master’s Level
Admission Requirements
- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating units.

Program Requirements
- The thesis topic must be in the neuroscience area.
- The student’s supervisor must be a member of the Collaborative Program in Neuroscience (CPIN).
- The student must complete at least 0.5 full-course equivalent (FCE) for the master’s degree chosen from the list of courses approved by the Collaborative Program in Neuroscience which is listed below.
- The student must attend the Annual Poster Day and present his/her work at least once.
- The student must attend at least 75% of the lectures in the UTNP Distinguished Lecturers Series for a minimum of one year in consecutive sessions during their studies.

Doctoral Level
Admission Requirements
- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating units.

Program Requirements
- The thesis topic must be in the neuroscience area.
- The student’s supervisor must be a member of the Collaborative Program in Neuroscience (CPIN).
- All PhD students must take JNR 1444Y Fundamentals of Neuroscience: Cellular and Molecular, or JNS 1000Y Fundamentals of Neuroscience: Systems and Behaviour, or one of
Collaborative Programs

Neuroscience

- Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.

several additional courses in cognitive psychology or imaging (1.0 FCE) to be determined by the CPIN Program Committee and posted on the CPIN website in July of each year.

- The student must attend the Annual PIN Poster Day and present his/her work at least twice.
- The student must attend at least 75% of the lectures in the UTNP Distinguished Lecturers Series for a minimum of three consecutive years during their studies.
- After completing the MSc or MA, students who wish to continue on to a PhD degree in Neuroscience must register again and fulfill all the program requirements (e.g., students must again present posters in the doctoral program).

Course List

Neuroscience courses offered by the participating units are listed below. Not all courses are offered each year.

- **DEN 1060H** Oral Physiology: Sensory and Neuromuscular Function
- **HDP 3286H** Developmental Neurobiology
- **JNR 1444Y** Fundamentals of Neuroscience: Cellular and Molecular
- **JNS 1000Y** Fundamentals of Neuroscience: Systems and Behaviour
- **JPM 1005Y** Behavioural Pharmacology
- **JPY 1007Y** Neuropharmacology of Neurotransmitter Receptors
- **JYG 1555H** Topics in Cellular and Molecular Neurobiology
- **MSC 1006H** Advanced Neuroanatomy
- **MSC 1085H** Molecular Approaches to Mental Health and Addictions
- **MSC 6000H** Special Topics in Anatomy (Requires prior permission of the Neuroscience Program Director)
- **PCL 1012H** Cognitive Neuropharmacology
- **PSL 1024H** Advanced Topics: Endocrinology and Neuroendocrinology
- **PSL 1026H** Advanced Topics: Experimental Cell Physiology
- **PSL 1047H** Advanced Topics: Somatosensory and Pain Neuroscience
- **PSL 1053H** Advanced Topics: Critical Assessment of Ion Channel Function
- **PSL 1068H** Advanced Topics: Molecular Basis of Behaviour
- **PSY 4706H** Human Brain Neuroanatomy
- **PSY 5101H** Mechanisms of Behaviour
- **PSY 5103H** Learning and Plasticity
- **PSY 5104H** Neuropsychology
- **PSY 5110H** Advanced Topics in Behavioural Neuroscience I
- **PSY 5111H** Advanced Topics in Behavioural Neuroscience II
- **PSY 5112H** Advanced Topics in Behavioural Neuroscience III
- **PSY 5121H** Advanced Topics in Animal Behaviour and Motivation II
- **PSY 5130H** Advanced Topics in Neuropsychology I
- **PSY 5131H** Advanced Topics in Neuropsychology II
- **PSY 5132H** Advanced Topics in Neuropsychology III
- **PSY 5201H** Audition
- **PSY 5202H** Vision
- **PSY 5203H** Higher Cognition
- **PSY 5204H** Attention
- **PSY 5205H** Memory
- **PSY 5210H** Advanced Topics in Perception I
- **PSY 5211H** Advanced Topics in Perception II
- **PSY 5212H** Advanced Topics in Perception III
- **PSY 5220H** Advanced Topics in Cognition I
- **PSY 5221H** Advanced Topics in Cognition II
- **PSY 5222H** Advanced Topics in Cognition III
- **PSY 5311H** Advanced Topics in Developmental Neuroscience II
- **REH 1510H** Disordered Restorative Motor Control
- **JEB 1444H** Neural Engineering
- **JEB 1451H** Neural Bioelectricity
- **MSC 1081H** Studies in Schizophrenia
- **MSC 1086H** Integrative perspectives in Consciousness and Self-Awareness
- **MSC 1087H** Neuroimaging Methods Using Magnetic Resonance Imaging
- **MSC 1088H** Brain Positron Emission Tomography
- **PSL 1050H** Advanced Topics: The Hippocampus from Cell to Behaviour
- **PSL 1071H** Advanced Topics: Computational Neuroscience
- **PSL 1441H** Systems Level Neuroplasticity
- **PSL 1445H** Mechanistic Molecular & Cellular Neuroscience
- **PSL 1446H** Molecular & Cellular Aspects of Neural Disorders

Other Courses

Courses not specifically in neuroscience which do not fulfill the program requirements as neuroscience courses but might be useful for neuroscience students.

- **JBL 1507H** Biochemistry of Inherited Disease
- **JDB 1025Y** Developmental Biology
- **JNP 1017H** The Molecular and Biochemical Basis of Toxicology
- **JNP 1018H** Current Topics in Molecular and Biochemical Toxicology
- **PHM 1122H** Fundamentals of Drug Discovery
- **PSL 1054H** Physiological Instrumentation and Electronics
- **PSL 1472H** Sleep Physiology and Chronobiology
- **PSY 5102H** Motivational Processes
- **SLP 1522Y** Speech Physiology and Acoustics
- **SLP 1533Y** Aphasias
- **SLP 1534Y** Motor Speech Disorders

+ Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.
SLP 3001H  Theoretical Foundations of Communication Sciences

Program Committee
Trimble, William - BSc, PhD, Canada Research Chair – Biochemistry
Shoichet, Molly - BSc, MSc, PhD, Canada Research Chair – Biomedical Engineering
Sessle, Barry - BDS, BSc, MD, PhD, FRSC, Canada Research Chair – Dentistry
Lewis, Marc - BA, MA, PhD, CPsych - Human Development & Applied Psychology
Schmitt-Ulms, Gerold - BSc, MSc, DrRerNat – Laboratory Medicine & Pathobiology
Stefanovic, B. - PhD – Medical Biophysics
Carlen, Peter - MD, FRCP(C) – Medical Science
Roder, John - BA, PhD, Canada Research Chair – Molecular Genetics
Hampson, David - PhD – Pharmaceutical Sciences (CPIN Director)
Wells, James - BScPhm, MSc, PhD – Pharmaceutical Sciences
Burnham, Willets - BA, PhD – Pharmacology
Dostrovsky, Jonathan - BSc, MSc, PhD – Physiology (CPIN Advisor)
Jia, Zhengping - PhD – Physiology
Yeomans, John - BA, PhD – Psychology
Zebjec, Karl - PhD – Rehabilitation Science
De Nil, Luc - MSc, PhD – Speech-Language Pathology
Peever, John - BSc, MSc, PhD – Cell & Systems Biology
Collaborative Programs

Optics

Lead Faculty
Arts and Science

Participating Degree Programs
Chemistry – MSc
Electrical and Computer Engineering – MASc
Materials Science and Engineering – MASc
Physics – MSc

Overview
The graduate programs listed above participate in the Collaborative Master’s Program in Optics. The program focuses on the study of optics, photonics, and the interaction of light and matter. Optics is a truly multidisciplinary field, crossing the boundaries between pure and applied science. The collaborative program allows students to explore these multidisciplinary aspects.

Students who wish to participate in the collaborative program must be admitted to both a master’s program in one of the collaborating graduate departments mentioned above and the collaborative program. Submit an application form, available from the collaborative program office (the Institute for Optical Sciences); normal deadlines for application to the School of Graduate Studies apply. Students who have already been admitted to a master’s program in a home department may apply to the collaborative program within the first month of their program.

Upon certification by the Director that all requirements of the collaborative program have been fulfilled, the home department recommends the granting of the MSc or MASc degree; the designation “Completed Collaborative Program in Optics” will appear on the transcript.

Contact and Address
Web: www.optics.utoronto.ca
Email: eistrate@optics.utoronto.ca
Telephone: (416) 978-1804
Fax: (416) 978-3936
Collaborative Master’s Program in Optics
Institute for Optical Sciences
University of Toronto
Suite 331, 60 St. George Street
Toronto, Ontario M5S 1A7
Canada

Master's Level

Admission Requirements
• Admission to a MSc or MASc degree program in one of the four collaborating units.
• Commitment to make optics or photonics the main focus of study in that program, as stated in the application form for the collaborative program.

Program Requirements
• Meet all respective degree requirements of the School of Graduate Studies and the home department.
• Successful completion of the collaborative program core course IOS 1500H.
• If a thesis is required by the home graduate unit, its topic must fall in the broad area of optics. A member of the collaborative program’s faculty must be part of the examination committee.

Course List
IOS 1500H Selected Topics in Optics
See also full course listings in the Departments of Chemistry, Electrical and Computer Engineering, Materials Science and Engineering, and Physics.

Program Committee
Miller, R. J. Dwayne - BSc, PhD, FRSC, Canada
Research Chair – Chemistry, Physics
Walker, Gilbert - BA, PhD – Chemistry
Helmy, Amr - BSc, MSc, PhD – Electrical & Computer Engineering
Lu, Zheng-Hong - BSc, MSc, PhD – Materials Science & Engineering
Goh, M Cynthia - PHD – Medical Science (Director)
Sipe, John - BSc, MSc, PhD – Physics
Resuscitation Sciences

Lead Faculty
Medicine

Participating Degree Programs
Biomedical Engineering – PhD
Clinical Engineering – MHSc
Community Health – MScCH
Health Policy, Management and Evaluation – MSc, PhD
Immunology – MSc, PhD
Laboratory Medicine and Pathobiology – MSc, PhD
Mechanical and Industrial Engineering – MEng, PhD
Medical Science – MSc, PhD
Nursing Science – MN, PhD
Pharmaceutical Sciences – MSc, PhD
Pharmacology – MSc, PhD
Physiology – MSc, PhD
Public Health Sciences – MPH, MSc, PhD
Rehabilitation Science – MSc, PhD

Overview
The goal of the Collaborative Program in Resuscitation Sciences is to train scientists pursuing research in the optimal care of the acutely ill and injured patient and, ultimately, to create leaders in the discipline who will supervise others providing this level of scientific inquiry. The program appeals to students from a wide variety of backgrounds with an interest in any aspect of resuscitation science. Resuscitation Sciences includes a number of medical areas such as trauma, critical care, emergency medicine, neurotrauma, anesthesia, shock, sepsis, acute coronary syndrome, paediatric care, cardiovascular, peripheral vascular, and rehabilitation medicine. Many non-medicine disciplines such as engineering, basic science, and public health, as well as allied health professions such as nursing, pharmacy, and paramedicine, will find synergies in the Resuscitation Sciences program. Research programs can use methodologies ranging from molecular medicine and genomics through clinical trials and outcomes to engineering, health administration, and health prevention strategies. Resultant advances in knowledge will ultimately be applied to the clinical setting.

Interested students must first apply to and be accepted in one of the participating degree programs listed above, and then apply to the collaborative program. Students must follow a course of study acceptable to both the home unit and the collaborative program. Upon successful completion of the requirements of the host department and the program, students receive the degree from their home unit and the notation “Completed the Collaborative Program in Resuscitation Sciences” on their transcript.

Contact and Address
Web: www.resuscitationscience.ca
Email: cprsinfo@smh.ca
Telephone: (416) 864-6060 ext. 7843
Fax: (416) 864-5934

Collaborative Program in Resuscitation Sciences
c/o Rescu, St. Michael’s Hospital
30 Bond Street
Toronto, Ontario M5B 1W8
Canada

Master’s Level

Admission Requirements
• Collaborative programs are administered under the auspices of the School of Graduate Studies.
• Applicants must be accepted for admission to a participating graduate unit and comply with the admission procedures of that unit before applying to the Collaborative Program in Resuscitation Sciences.
• Applicants must submit the following to the Program Committee of the Collaborative Program in Resuscitation Sciences:
  ○ a resume or curriculum vitae
  ○ a personal statement explaining how their program of study and specific research interests relate to resuscitation science
  ○ a letter of recommendation from a faculty member, usually the thesis supervisor in a thesis-based graduate program, commenting on the student’s academic abilities and likelihood for research success in the field of resuscitation sciences.

Program Requirements
• Students must register in the master’s degree program through one of the participating home graduate units. They must meet all respective degree requirements of the School of Graduate Studies and their participating home graduate unit.
• In addition to meeting the home graduate unit program requirements, students will be required to:
  ○ take the core course MSC 4001H Foundations in Resuscitation Science Research
  ○ attend at least 75% of the SRM 3333H Resuscitation Sciences Graduate Seminar Series over two consecutive sessions
Collaborative Programs

- complete a thesis, comprehensive paper, or practicum (whichever is included in their program of study) in the area of resuscitation sciences under the supervision of a faculty member affiliated with the program.
- present their research at the annual CPRS Scientific Meeting at least once, and attend the annual Scientific Meeting each year of their enrolment in the program.

Doctoral Level

Admission Requirements

- Collaborative programs are administered under the auspices of the School of Graduate Studies.
- Applicants must be accepted for admission to a participating graduate unit and comply with the admission procedures of that unit before applying to the Collaborative Program in Resuscitation Sciences.
- Applicants must submit the following to the Program Committee of the Collaborative Program in Resuscitation Sciences:
  - a resume or curriculum vitae
  - a personal statement explaining how their program of study and specific research interests relate to resuscitation science
  - a letter of recommendation from a faculty member, usually the thesis supervisor in a thesis-based graduate program, commenting on the student’s academic abilities, and likelihood for research success in the field of resuscitation sciences.

Program Requirements

- Students must register in the degree program through one of the participating home graduate units. They must meet all respective degree requirements of the School of Graduate Studies and their participating home graduate unit.
- In addition to meeting the home graduate unit program requirements, students will be required to:
  - take the core course MSC 4001H *Foundations in Resuscitation Science Research* (doctoral students who have already taken this course as part of their master’s program will be exempted)
  - take MSC 4002H *Advanced Topics in Resuscitation Science Research*, a type 2 graduate seminar series
  - complete a thesis in the area of resuscitation sciences
  - attend at least 75% of the SRD4444H *Resuscitation Sciences Graduate Seminar Series* over two consecutive years
  - present their research at the annual CPRS Scientific Meeting at least twice, and attend the annual Scientific Meeting each year of their enrolment in the program.

Course List

MSC 4001H Foundations in Resuscitation Science Research
MSC 4002H Advanced Topics in Resuscitation Science Research (PhD students only)
SRM 3333H Resuscitation Sciences Graduate Seminar Series (master’s level)
SRD 4444H Resuscitation Sciences Graduate Seminar Series (doctoral level)

Program Committee

Chau, Tom - PhD – Biomaterials and Biomedical Engineering
Redelmeier, Don - MD, MSHSR – Health Policy, Management and Evaluation
Ratcliffe, Michael - PhD – Immunology
Palaniyar, Nades - MSc, PhD – Laboratory Medicine and Pathobiology
Carter, Michael - PhD – Mechanical and Industrial Engineering
Morrison, Laurie - BSc – Medical Science (Director)
Rotstein, Ori - MD MSc – Medical Science
Rose, Louise - MN, PhD – Nursing Science
Mamdani, Muhammad - MPH, MA, PharmD – Pharmaceutical Sciences
Dorian, Paul - MD MSc – Pharmacology and Toxicology
Hare, Greg - MD, PhD – Physiology
Corey, Paul - PhD – Public Health Sciences
Sexual Diversity Studies

Lead Faculty
Arts and Science

Participating Degree Programs
- Anthropology – MA, MSc, PhD
- Cinema Studies – MA
- Classics – MA, PhD
- Counselling Psychology – MA, MEd, EdD, PhD
- Criminology – MA, JD/MA, PhD
- Curriculum Studies & Teacher Development – MA, MEd, PhD
- Drama – MA, PhD
- East Asian Studies – MA, PhD
- Educational Administration – MA, MEd, EdD, PhD
- English – MA, PhD
- Exercise Sciences – MSc, PhD
- Higher Education – MA, MEd, EdD, PhD
- History – MA, PhD
- History and Philosophy of Education – MA, MEd
- History and Philosophy of Science and Technology – MA, PhD
- History of Art – MA, PhD
- Italian Studies – MA, PhD
- Information – MA
- Information Studies – PhD
- Law – LLM, MSL, SJD
- Linguistics – MA, PhD
- Medieval Studies – MA, PhD
- Museum Studies – MMSst
- Near and Middle Eastern Civilizations – MA, PhD
- Philosophy – MA, PhD
- Political Science – MA, PhD
- Psychology – MA, PhD
- Public Health Sciences – MPH, MSc, PhD
- Public Policy – MPP
- Religion – MA, PhD
- Social Work – MSW, PhD
- Sociology – MA, PhD
- Sociology and Equity Studies in Education – MA, MEd, EdD, PhD
- Visual Studies – MVS
- Women and Gender Studies – MA

Supporting Units
Jewish Studies Collaborative Program

Overview
The Collaborative Program in Sexual Diversity Studies, offered by the Mark S. Bonham Centre for Sexual Diversity Studies, is a rigorously interdisciplinary program recognizing sexual diversity studies as an interdisciplinary field of inquiry. While it has emerged as an autonomous scholarly area, many of those who work within it engage questions of gender, ethnicity, race, Aboriginal status, (dis)ability, and class, to highlight the importance of exploring their interaction with sexual differences.

The graduate degree programs listed above participate in the collaborative program. From their home departments, students may take up questions from their own disciplinary or programmatic perspective, but explore it through the theoretical and methodological lens of sexuality studies.

Contact and Address
Web: www.utoronto.ca/sexualdiversity
Email: sexual.diversity@utoronto.ca
Telephone: (416) 978-6276 for general inquiries
Fax: (416) 971-2027

Director
Sexual Diversity Studies Collaborative Program
Mark S. Bonham Centre for Sexual Diversity Studies
University of Toronto
Room 251, University College
15 King’s College Circle
Toronto, Ontario M5S 3H7
Canada

Master's Level

Admission Requirements
- Each graduate student in the Program shall be enrolled in a participating degree program in the graduate unit where the research is conducted, which is known as the home graduate unit. The student shall meet the admission requirements of both the home graduate unit and the collaborative program.

Program Requirements
- Students must meet all respective degree requirements of the School of Graduate Studies and the participating graduate unit, and meet the requirements of the collaborative program as follows:
  - 0.5 full-course equivalent (FCE) core course in Sexual Diversity Studies (SDS 1000H)
  - 0.5 FCE in other courses with substantial treatment of sexual diversity
    - thesis or major research paper (if applicable) must be on a sexual diversity studies topic
- Courses may be counted toward the 0.5 FCE beyond the core course if a significant portion of the course addresses questions related to sexuality, or if most of the session work completed in association with it explores such questions.
- All course selection for the additional 0.5 FCE must be approved by the director of the collaborative program.
Collaborative Programs

Doctoral Level

Admission Requirements

- Each graduate student in the Program shall be enrolled in a participating degree program in the graduate unit where the research is conducted, which is known as the home graduate unit. The student shall meet the admission requirements of both the home graduate unit and the collaborative program.

Program Requirements

- Students must meet all respective degree requirements of the School of Graduate Studies and the participating graduate unit; and meet the requirements of the collaborative program as follows:
  - 0.5 FCE core course in Sexual Diversity Studies (SDS 1000H)
  - 0.5 FCE in other courses with substantial treatment of sexual diversity
  - thesis or major research paper (if applicable) must be on a sexual diversity studies topic.
- Doctoral students in the program who have completed the collaborative program at the master’s level will not be required to repeat SDS 1000H. All course selection for the additional 0.5 FCE must be approved by the director of the collaborative program.
- The doctoral thesis committee should include at least one faculty member associated with SDS. In most cases, the supervisor would be associated with SDS, though in some cases, the student’s particular analytical perspective will suggest another faculty member in her or his discipline.
- The student’s course of study and overall progress will be reviewed annually by the Collaborative Program Director, though ultimate responsibility for the student’s progress will remain with the graduate chair of the home program.

Course List

SDS 1000H  Theoretical and Methodological Issues in Sexual Diversity Studies
SDS 1999H  Special Topics in Sexual Diversity Studies

Program Executive Committee

The full Graduate Committee includes one representative of each partner program. That Committee has approved the creation of a Graduate Program Executive Committee, composed as follows:

Valverde, Mariana - BA, MA, PhD, FRSC – Criminology
Johnson, Stephen - BA, MA, PhD – Drama
Ruti, Marjut - BA, MA, PhD – English
Cossman, Brenda - BA, LLB, LLM – Law
Rayside, David - BA, AM, PhD – Political Science
Walcott, Rinaldo - BA, MA, PhD – Sociology & Equity Studies in Education
Georgis, Dina - BA, MA, PhD – Women & Gender Studies

Two graduate students (committee members for other than admission decisions).
South Asian Studies

Lead Faculty
Arts and Science

Participating Degree Programs
Anthropology – MA, MSc, PhD
Comparative Literature – MA, PhD
Drama – MA
East Asian Studies – MA, PhD
English – MA, PhD
Geography – MA, PhD
History – MA, PhD
Music – MA, PhD
Political Science – PhD
Religion – MA, PhD
Sociology in Education – MA, MEd, EdD, PhD
Women and Gender Studies – MA

Overview
The interdisciplinary Collaborative Master's and Doctoral Program in South Asian Studies is designed for students who wish to acquire a nuanced understanding of South Asia as a secondary area of specialization while pursuing graduate studies in another discipline. The focus of this program is necessarily broad in that it provides students with an understanding of ancient and modern history, social change, economic development, contemporary politics, religious traditions, literary culture, and a spectrum of related topics.

The Centre for South Asian Studies, which administers the collaborative program, provides a nucleus for the participation of South Asian Studies scholars from across the University. Students will benefit from the physical presence of the Centre and its regular activities of research fora, conferences, and visiting lecturer and scholar programs. In addition, the University’s library collection in South Asian studies is the largest in Canada.

Master's Level
Admission Requirements
- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
- Applicants must meet the admission requirements of the graduate unit in which they intend to enrol. Admission will be subject to the approval of the graduate unit concerned and the Program Committee of the collaborative program.

Program Requirements
- A mandatory half-year core course entitled Issues in South Asian Studies taught by the core faculty. The core course will be the same for both master’s and doctoral students. Master’s students who proceed to the doctoral program will not be required to take the core course again. With the permission of the home graduate unit, the core course can be taken in lieu of one of the courses required by the home unit.
- Attendance at the visiting lecture series organized by the Centre for South Asian Studies during the academic year in which the student takes the core course.
- If writing a thesis, it is expected to include a significant South Asian component.
- For master's students writing a research paper, the home unit will determine whether a South Asian component is required in the research paper.
- For master's students writing a thesis and master’s students writing a research paper, language requirements will be assessed on a case-by-case basis.

Doctoral Level
Admission Requirements
- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
- Applicants must meet the admission requirements of the graduate unit in which they intend to enrol.
Collaborative Programs

Admission will be subject to the approval of the graduate unit concerned and the program committee of the collaborative program.

Program Requirements

- A mandatory half-year core course entitled Issues in South Asian Studies taught by the core faculty (unless already taken in the master’s program). With the permission of the home graduate unit, the core course can be taken in lieu of one of the courses required by the home unit.
- Attendance at the visiting lecture series organized by the Centre for South Asian Studies for a total of two years, including the academic year in which the student takes the core course.
- The dissertation to include a significant South Asian component.
- A research presentation to the Program Committee on a South Asian topic in Year 3 or Year 4 of the program.
- Language requirement, depending on the student’s area of specialization.

Course List

Core Course

SAS 2004H  Issues in South Asian Studies

Program Committee

Cody, Francis - PhD – Anthropology
Naiiaargi, Dave - PhD – Anthropology
Miller, Heather - BA, MSc, MA, PhD – Anthropology
Dewan, Deepali - BA, MA, PhD – Art
Jain, Kajri - MA, PhD – Art
Sandahl, Stella - MA, PhD – East Asian Studies
Kanaganayakam, Chelva - BA, PhD – English
Goonewardena, Kanishka - BSc, MPI, PhD – Geography
MacDonald, Ken - BA, MS, PhD – Geography
Mahtani, Minelle - BA, PhD – Geography
Rankin, Katharine - BA, MRP, PhD – Geography
Birla, Ritu - BA, MA, MPhil, PhD – History
Sharma, Jayeeta - BA, MA, MPhil, PhD – History
Kasturi, Malavika - BA, MPhil, MA, PhD – History
Tambe, Ashwini - BA, MA, PhD – History, Women & Gender Studies
Rubinoff, Arthur - BA, MA, PhD – Political Science
Dhand, Arti - BA, MA, PhD – Religion
Emmrich, Christoph - BA, MA, PhD – Religion
Garrett, Frances - BA, MA, PhD – Religion
McIntire, C. Thomas - BA, MA, MDiv, PhD – Religion
Raman, Srilata - BA, MPhil, PhD – Religion
Rao, Ajay - BA, MA, PhD – Religion
Virani, Shafique - BA, MA, PhD – Religion
Dhand, Arti - BA, MA, PhD – Religion
Baber, Zaheer - BA, MA, PhD – Sociology
Women and Gender Studies

Lead Faculty
Arts and Science

Participating Degree Programs
Adult Education and Community Development – MA, MEd, EdD, PhD
Anthropology – MA, MSc, PhD
Cinema Studies – MA
Classics – MA, PhD
Comparative Literature – MA, PhD
Counselling Psychology – MA, MEd, EdD, PhD
Criminology – MA, PhD
Curriculum Studies and Teacher Development – MA, MEd, EdD, PhD
Drama – MA, PhD
Educational Administration – MA, MEd, EdD, PhD
English – MA, PhD
Exercise Sciences – MSc, PhD
French Language and Literature – MA, PhD
Geography – MA, MSc, PhD
Germanic Literature, Culture and Theory – MA, PhD
Health Administration – MHSc
Higher Education – MA, MEd, EdD, PhD
History – MA, PhD
History and Philosophy of Education – MA, MEd
Information – MI
Information Studies – PhD
Law – LLM, SJD
Medieval Studies – MA, PhD
Near and Middle Eastern Civilizations – MA, PhD
Nursing Science – MN, PhD
Philosophy – MA, PhD
Political Science – MA, PhD
Public Health Sciences – MPH, MSc, PhD
Religion – MA, PhD
Second Language Education – MA, MEd, PhD
Social Work – MSW, PhD
Sociology – MA, PhD
Sociology in Education – MA, MEd, EdD, PhD
Spanish – MA, PhD

Overview
The Graduate Collaborative Program in Women and Gender Studies (CWGS) provides students with an opportunity for advanced feminist studies in concert with a MA or PhD degree in another discipline. The program offers a rich interdisciplinary environment in which to grapple with how gender and sexuality is tangled with questions of race, citizenship, embodiment, colonialism, nation, global capitalism, violence, aesthetics, and other pressing concerns.

The graduate programs listed above participate in the Collaborative Program in Women and Gender Studies at the University of Toronto. The collaborating units contribute courses and provide facilities and supervision for graduate research. The program is administered by the Women and Gender Studies Institute (WGSI). The CWGS brings together 34 graduate programs, more than 100 courses, and more than 100 graduate faculty members. Our core faculty brings transnational feminist commitments to the study of diverse sites and their interconnection with particular focus on Canada, the Caribbean, Africa, the Middle East, South Asia, East Asia, and the United States. Students who successfully complete the requirements of the collaborative program will receive the notation “Completed Collaborative Program in Women and Gender Studies” on their transcript, in addition to the master’s or doctoral degree from their home graduate unit.

Contact and Address
Web: www.wgsi.utoronto.ca/graduate/collaborative-program
Email: grad.womenstudies@utoronto.ca
Telephone: (416) 978-3668
Fax: (416) 946-5561
Graduate Collaborative Program in Women and Gender Studies
Women and Gender Studies Institute
University of Toronto
Room 2036, Wilson Hall, New College
Toronto, Ontario M5S 1C6
Canada

Master’s Level

Admission Requirements
• Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments. Students must fulfill all the degree requirements in the home department.
• Applicants to the collaborative program should have a substantial undergraduate background in gender and feminist studies or an equivalent focus within a discipline. In exceptional cases, extensive work or activist experience which also requires academic knowledge of research on women and/or gender will also be considered.
• Two-page statement of research intent explaining how your program of study and specific research interests relate to women and gender studies at the master’s level.
• Two letters of reference outlining your background in women and gender studies.
Collaborative Programs

Program Requirements

- Programs of study should be planned in consultation with the CWGS Graduate Coordinator as well as the Coordinator of Graduate Studies in the student's home graduate unit.
- Courses should be selected from the established cross-listed courses or approved by the Graduate Coordinator of the collaborative program.

Non-thesis Master's

- A required 0.5 full-course equivalent (FCE) selected from WGS 1000H, WGS 1001H, or WGS 1002H.
- 1.0 FCE of cross-listed or approved courses with a focus on women/gender/feminist/sexuality/critical race/postcolonial studies.
- Regular attendance at the WGS Research Seminar

Thesis Master's

- A required 0.5 FCE selected from WGS 1000H, WGS 1001H, or WGS 1002H.
- 0.5 FCE course cross-listed or approved with a focus on women/gender/feminist/sexuality/critical race/postcolonial studies.
- Regular attendance at the WGS Research Seminar
- The thesis, or major paper, dealing with a subject in the field of women and gender studies.
- Theses will be supervised and evaluated in the same manner as those in the home graduate unit. Normally, at least one cross-listed or core graduate faculty member of WGSI will be a member of the thesis or supervisory committee of students in the program.

Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative program must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments. Students must fulfill all the degree requirements in the home department.
- Applicants to the collaborative program should have a substantial undergraduate or graduate background in gender and feminist studies or an equivalent focus within a discipline. In exceptional cases, extensive work or activist experience which also requires academic knowledge of research on women and/or gender will also be considered.
- Two-page statement of research intent explaining how your program of study and specific research interests relate to women and gender studies at the doctoral level.
- Two letters of reference outlining your background in women and gender studies.

Program Requirements

- Programs of study should be planned in consultation with the CWGS Graduate Coordinator as well as the Coordinator of Graduate Studies in the student's home graduate unit.
- Courses should be selected from the established cross-listed courses approved by the Graduate Coordinator of the collaborative program.
- A required 0.5 FCE selected from WGS 1000H, WGS 1001H, or WGS 002H.
- Any other 0.5 FCE course in WGSI.
- 1.0 FCE of courses cross-listed or approved with a focus on women/gender/feminist/sexuality/critical race/postcolonial studies.
- Regularly participate in the WGS Research Seminar. Students are required to present their work in the seminar at least once before graduating.
- Doctoral thesis dealing with a subject in the field of women and gender studies. Theses will be supervised and evaluated in the same manner as those in the home graduate unit. Normally, at least one crosslisted or core graduate faculty member with WGSI will be a member of the thesis or supervisory committee of students in the program.

Course List

Core Courses

WGS 1000H Theories, Histories, Feminisms
WGS 1001H Feminism, Transnationalism and Postcolonialism,
WGS 1002H Feminist Methodologies and Epistemologies

Elective Courses

For courses offered by WGSI and cross-listed by the participating units offered in a particular year, check the collaborative program website, www.wgsi.utoronto.ca/graduate/collaborative-program.

Program Committee

Piran, Niva - BA, PhD – Adult Education & Counselling Psychology
McElhinny, Bonnie - BA, MA, PhD – Anthropology, Women and Gender Studies (Director)
Coupland, Gary - BA, MA, PhD – Anthropology
Keith, Alison - BA, PhD - Classics
Havercroft, Barbara - MA, MA, PhD – Comparative Literature
Wortley, Scot - BA, MA, PhD – Criminology
Campbell, Elizabeth - BA, BEd, MEd, PhD – Curriculum, Teaching & Learning
Testa, Bart - AM, BA, PhD – Cinema Studies
Barton, Bruce - PhD – Drama
Robins, William - BA, MPhil, PhD – English
Thomas, Scott - BSc, MSc, PhD – Exercise Sciences
Cozea, Angela - BA, MA, PhD – French
Collaborative Programs

Danieire, Amrita - AB, PhD – Geography
Stock, Markus - MA, PhD – German
Cockerill, Rhonda - BA, MA, PhD – Health Policy, Management & Evaluation
Loeb, Lori - BA, MMSit, PhD – History
Mai, Jens-Erik - PhD – Information
Murphy, Michelle - BA, PhD – Women and Gender Studies (Coordinator, Graduate Program)
Dyzenhaus, David - BA, LLB, DPhil, FRSC – Law
Harvey, Elisabeth Ruth - BA, MPhil, PhD – Medieval Studies
Beaulieu, Paul-Alain - BA, LLB, MA, PhD – Near & Middle Eastern Civilizations
Wynn, Francine - BA, MA, PhD – Nursing Science
Kremer, Philip - BSc, PhD – Philosophy
Skogstad, Grace - BA, MA, PhD – Political Science
Corey, Paul - BSc, MA, PhD – Public Health Sciences
Marshall, John - MA, PhD – Religion
Litvack, Andrea - BSW, MSW, CSW – Social Work
Wheaton, Blair - BA, MA, PhD – Sociology
Titchkosky, Tanya - MA, PhD – Sociology & Equity Studies in Education
Davidson, Robert - MA, PhD – Spanish
Boler, Megan - BA, PhD – Theory & Policy Studies in Education
Women's Health

Lead Faculty
Medicine

Participating Degree Programs
Anthropology – MA, MSc, PhD
Dentistry – MSc, PhD
English – MA, PhD
Exercise Sciences – MSc, PhD
Health Policy, Management & Evaluation – MSc, PhD
Immunology – MSc, PhD
Information – MA
Information Studies – PhD
Medical Science – MSc, PhD
Nursing Science – MN, PhD
Nutritional Sciences – MSc, PhD
Occupational Therapy – MScOT
Pharmacology – MSc, PhD
Psychology – MA, PhD
Public Health Sciences – MPH, PhD
Rehabilitation Science – MSc, PhD
Religion – MA, PhD
Social Work – MSW, PhD
Women & Gender Studies – MA

Overview
The graduate programs listed above, together with the support of the Centre for Girls’ and Women’s Health and Physical Education, Philosophy, and the International Programme on Reproductive and Sexual Health Law participate in the Collaborative Graduate Program in Women’s Health. The program’s objectives are twofold:
1. to provide interdisciplinary training in women’s health research and practice for graduate students at the University of Toronto;
2. to facilitate mutually beneficial relationships between researchers and practitioners of women’s health across the university and its 10 affiliated teaching hospitals.

Students must be registered in the School of Graduate Studies through one of the participating graduate units in order to apply to the Collaborative Graduate Program in Women’s Health. Applicants must comply with the admission procedures of that unit.

Contact and Address
Web: www.womensresearch.ca/learning-centre
Email: CPWH@womensresearch.ca
Telephone: (416) 351-3732 ext. 2331
Fax: (416) 351-3746

Women's Health Collaborative Program
c/o Women’s College Research Institute
7th floor, 790 Bay Street
Toronto, Ontario M5G 1N8
Canada

Dr. Gillian Einstein, Director
Department of Psychology
100 St. George Street
University of Toronto
Toronto, Ontario M5S 3G3
Canada

Master's Level

Admission Requirements
• Applicants must submit the following to the program committee of the Collaborative Graduate Program in Women’s Health:
  ○ A personal statement or letter no longer than one page describing relevant personal and/or professional experiences, a career plan, and motivation in seeking advanced training in women’s health.
  ○ Photocopies of application materials submitted to their home unit including curriculum vitae, transcripts, and letters of reference.

Program Requirements
• Complete the core course (CHL 5109H Gender and Health).
• Participate in at least six of the eight monthly Student Research Seminar Series and in the Annual Women’s College Research Institute Graduate Student Research Day.
• In instances where home graduate units require a thesis, it is desirable, but not required, that this work be relevant to women’s health.
• Complete the program requirements of the collaborative program as well as those of the home graduate unit.

Doctoral Level

Admission Requirements
• Applicants must submit the following to the program committee of the Collaborative Graduate Program in Women’s Health:
  ○ A personal statement or letter no longer than one page describing relevant personal and/or professional experiences, a career plan, and motivation in seeking advanced training in women’s health.
Photocopies of application materials submitted to their home unit including curriculum vitae, transcripts, and letters of reference.

Program Requirements

- Complete the core course (CHL 5109H Gender and Health). Doctoral students who have satisfactorily completed the core course during their master’s program are not required to repeat the course during their doctoral program.
- Participate in at least six of the eight monthly Student Research Seminar Series and in the Annual Women’s College Research Institute Graduate Student Research Day.
- Devise a research plan that builds interdisciplinary research skills in women’s health. The plan is developed with guidance from the student’s primary mentor (graduate supervisor from their home unit) and the co-mentor (a core faculty member of the collaborative program); both mentors must sign this plan.
- Complete a dissertation on a topic relevant to women’s health.

Course List

Core Course

CHL 5109H Gender and Health

Program Committee

Boddy, Janice - BA, MA, PhD, FRSC – Anthropology
Seltzer, Ze’ev - DMD, BMedSc, Canada Research Chair – Dentistry
Harvey, Elisabeth Ruth - BA, MPhil, PhD – English
MacNeill, Margaret - BPHE, MA, PhD – Exercise Sciences
Fish, Eleanor - BSc, MPhil, PhD – Immunology
Stewart, Donna - MD, DPsych, FRCP – Medical Science
Bierman, Arlene - BA, MD, MS – Nursing Science
Ward, Wendy - BASc, MSc, PhD – Nutritional Sciences
Riddick, David - PhD – Pharmacology and Toxicology
Polatajko-Howell, Helene - BOT, MEd, PhD, OT(C) – Occupational Science & Occupational Therapy
Fleming, Alison - BS, PhD – Psychology
Polivy, Janet - BS, MA, PhD – Psychology
Einstein, Gillian - PhD – Public Health Science (Director)
Brooks, Dina - PhD, MSc, BScPT – Rehabilitation Science
Klassen, Pamela - BA, MA, MPhil, PhD – Religion
Morgan, Kathryn - BA, MA, MEd, PhD – Women & Gender Studies
Workplace Learning and Social Change

Lead Faculty
Ontario Institute for Studies in Education

Participating Degree Programs
Adult Education and Community Development – MA, MEd, PhD
Sociology in Education – MA, MEd, PhD, EdD

Overview
The Collaborative Program in Workplace Learning and Social Change is particularly suited to students interested in developing their understanding of work and learning trends in Canada and internationally, with a focus on the relationships between workplace learning and social change. The program has three intellectual objectives:

1. to situate workplace learning within broader social trends such as globalization, neo-liberalism and organizational restructuring;
2. to allow exploration of the connections between learning as an individual phenomenon and learning as a social/organizational and public policy phenomenon;
3. to highlight the learning strategies that seek to foster social change through greater equality of power, inclusivity, participatory decision-making and economic democracy.

Applicants to Adult Education and Community Development or Sociology in Education who are interested in participating in the collaborative program at either the master's or doctoral level must apply to and be accepted by both the departmental and the collaborative program. Applicants must also submit a statement of interest, as detailed below.

Upon successful completion of the requirements of the host department and the program, students receive the notation "Completed Collaborative Program in Workplace Learning and Social Change" on their transcript.

Contact and Address
Web: www.oise.utoronto.ca/depts/aecdcp
Email: aeinfo@oise.utoronto.ca
Telephone: (416) 978-0683
Fax: (416) 926-4749

Collaborative Program in Workplace Learning and Social Change
Department of Adult Education and Counselling Psychology
Ontario Institute for Studies in Education
University of Toronto
252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

Master’s Level

Admission Requirements

- Applicants must apply to and be admitted to both the collaborative program and a graduate degree program in one of the collaborating departments.
- Applicants must submit a statement of interest which includes:
  - relevant personal and/or professional experiences and motivation in seeking training in Workplace Learning and Social Change (all applicants);
  - a brief outline of their proposed research project (thesis students);
  - indication of their preference of supervisor, if any (thesis students).

Program Requirements

Master of Education
- 5.0 full-course equivalents (FCEs) as follows:
  - 0.5 core FCE (WPL 1131H);
  - 0.5 elective FCE in the area of workplace learning and social change;
  - 4.0 FCEs to fulfill the degree requirements of the program of admission;
- No thesis requirement.

Master of Arts
- 3.0 full-course equivalents (FCEs) for the Sociology in Education program or 4.0 FCEs for the Adult Education and Community Development program, as follows:
  - 0.5 core FCE (WPL 1131H);
  - 0.5 elective FCE in the area of workplace learning and social change;
  - 2.0 FCEs to fulfill the requirements of the Sociology in Education program or 3.0 FCEs to fulfill the requirements of the Adult Education and Community Development program;
- In addition, thesis students will be required to complete a thesis which incorporates issues of workplace learning and social change. A member of the collaborative program core faculty will serve as supervisor or committee member.

Doctoral Level

Admission Requirements

- Applicants should apply to the collaborating degree program that corresponds most closely to their general background and interests.
- Applicants must submit a statement of interest which includes:
Collaborative Programs

Workplace Learning and Social Change

Program Requirements

Doctor of Education
(Offered to students in the Sociology in Education program only.)

- 4.0 full-course equivalents (FCEs), as follows:
  - 0.5 core FCE (WPL 3931H);
  - 0.5 elective FCE in the area of workplace learning and social change;
  - 3.0 FCEs to complete the requirements of the program of admission;
- In addition, students will be required to complete a thesis which incorporates issues of workplace learning and social change. A member of the collaborative program core faculty will serve as supervisor or committee member.

Doctor of Philosophy

- 3.0 full-course equivalents (FCEs), as follows:
  - 0.5 core FCE (WPL 3931H);
  - 0.5 elective FCE in the area of workplace learning and social change;
  - 2.0 FCEs to complete the requirements of the program of admission;
- In addition, students will be required to complete a thesis which incorporates issues of workplace learning and social change. A member of the collaborative program core faculty will serve as supervisor or committee member.

Course List

Master’s-Level Required Course

WPL 1131H  Master’s Seminar in Workplace Learning and Social Change

Master’s-Stream Electives

List of electives is subject to change.

AEC 1107H  Developing and Leading High Performing Teams: Theory and Practice
AEC 1113H  Gender and Hierarchy at Work
AEC 1117H  Consulting Skills for Adult Educators
AEC 1119H  Creating a Learning Organization
AEC 1131H  Special Topics in Adult Education (Master’s)
AEC 1135H  Practicum in Organization Development (Credit/No Credit)
AEC 1141H  Organizations and the Adult Educator: Historical and Theoretical Perspectives on Organization Development
AEC 1145H  Participatory Research in the Community and the Workplace
AEC 1148H  An Introduction to Workplace, Organizational, and Economic Democracy
AEC 1150H  Critical Perspectives on Organization Theory, Development, and Practice
AEC 1156H  Power and Difference in the Workplace
AEC 1182H  Teaching, Learning and Working in Non-profit and Public Sector Organizations
AEC 1186H  Perspectives on Organizational Change
SES 2942H  Education and Work
SES 2999H  Special Topics in Sociological Research in Education: Sociology of Learning and Social Movements
JTE 2912H  Teachers’ Work: Classrooms, Careers, Cultures, and Change

Doctoral-Level Required Course

WPL 3931H  Doctoral Seminar in Workplace Learning and Social Change

Doctoral-Stream Electives

List of electives is subject to change. Doctoral students can select an elective course from the list above OR take one of the following to meet their elective requirement:

AEC 3131H  Special Topics in Adult Education: Rethinking Skills: Theory, Policy and Practice (Doctoral)
AEC 3140H  Post-Colonial Relations and Transformative Education
AEC 3182H  Work, Technology and Knowledge Economy
AEC 3183H  Citizenship Learning and Participatory Democracy
AEC 3184H  Maping Social and Organizational Relations in Education
SES 3999H  Special Topics in Advanced Sociological Research in Education

Program Committee

Jackson, Nancy - BA, MA, PhD – Adult Education & Counselling Psychology
Laiken, Marilyn - BA, MA, PhD – Adult Education & Counselling Psychology
Mirchandani, Kiran - BA, MPhil, PhD – Adult Education & Counselling Psychology (Director)
Mojab, Shahrzad - BA, MEd, PhD – Adult Education and Counselling Psychology
Ng, Roxana - BA, MA, PhD – Adult Education and Counselling Psychology
Quarter, Jack - BA, MA, PhD – Adult Education & Counselling Psychology
Livingstone, David - BA, PhD – Sociology & Equity Studies in Education
Sawchuck, Peter - BSc, BEd, MA, PhD – Sociology & Equity Studies in Education
Joint Programs

The University of Toronto participates in several joint degree programs involving partnership between two or more graduate units or universities.
Advanced Design and Manufacturing

Faculty Affiliation
Applied Science and Engineering

Participating Degree
Programs at U of T
Advanced Design and Manufacturing – MEngDM

Overview
The Advanced Design and Manufacturing Institute (ADMI) is the administrative home for the joint program in design and manufacturing offered at the master's level. The program is offered through the joint efforts of five Ontario universities: University of Toronto, McMaster University, Queen’s University, the University of Waterloo, and the University of Western Ontario. The joint nature of the program ensures that the very best expertise available at each of the participating schools is integrated into the program’s course offerings.

Within the University of Toronto, the degree designation is Master of Engineering in Design and Manufacturing. The joint program, fully described on www.admicanada.com, is structured to address the engineering design, manufacturing, and management expertise and knowledge base required by young graduate professionals actively engaged within industry, government, and business.

Due to the part-time modular nature of the program, it is available only to Canadian citizens and permanent residents of Canada. The program allows individuals to participate in graduate studies over four-day weekend periods that can be effectively incorporated into a regular working schedule. The ADMI courses are offered at various locations within southern Ontario, typically Toronto, Waterloo, Mississauga, Hamilton, and London. Courses are offered throughout the year and do not conform to the regular university semester structures.

Contact and Address
For information regarding ADMI admission at the University of Toronto, contact by mail:
Graduate Studies Office
Department of Mechanical and Industrial Engineering
5 Kings College Road
Toronto, Ontario M5S 3G8
Canada
Email: adm@mie.utoronto.ca
Telephone: (416) 978-8823
Fax: (416) 978-3453

For information regarding ADMI admission at the University of Toronto, visit in person:
Graduate Studies Office
Department of Mechanical and Industrial Engineering
Rosebrugh Building
Room 214, 164 College Street
Toronto, Ontario M5S 3G9
Canada

For information on the program’s long-term goals as well as details of other universities participating in ADMI, contact:
Mr. David Heaslip
Executive Director
Advanced Design and Manufacturing Institute
The Promontory II
Sheridan Science and Technology Park
Suite 250, 2655 North Sheridan Way
Mississauga, Ontario L5K 2P8
Canada
Web: www.admicanada.com
Email: info@admicanada.com
Telephone: (905) 855-9787
Fax: (905) 855-2199

Master of Engineering in Design and Manufacturing

Minimum Admission Requirements
• Students entering the program at the University of Toronto are required to register in the Department of Mechanical and Industrial Engineering.
• An appropriate bachelor’s degree in engineering from a recognized university, with grades equivalent to a mid-B or better, is required. Individuals with undergraduate and or graduate degrees in the related fields of computer science, physics, etc. are also invited to apply.
• Applicants will normally have three years of post-baccalaureate experience in the industry, or its equivalent.

Program Requirements
• 10 ADMI course offerings; details at www.admicanada.com
• Two of the required 10 courses may be replaced by an approved industry project, with University supervision
• Whether or not a project is undertaken, program participants are required to complete a minimum of five courses from the Technology and Process Stream and a minimum of two from the Business and Management Stream.
Joint Programs

- Participants must complete a minimum of two ADMI courses per calendar year to maintain program registration status.

**Normal Program Length:** 4 years part-time  
**Time Limit:** 6 years part-time

**Course List**  
A list of course offerings, along with course descriptions and a current schedule, is available on the ADMI website, www.admicanada.com.

**Program Committee**  
The committee of the Advanced Design and Manufacturing Institute (ADMI) comprises eight members: six from the participating member universities plus two members from industry. The Executive Director of ADMI, D. Heaslip, chairs the Program Committee.

University of Toronto Program Committee  
Representative: Markus Bussmann, PhD, PEng – Mechanical & Industrial Engineering.
Biotechnology

Faculty Affiliation
University of Toronto Mississauga

Participating Degree Programs at U of T
Biotechnology – MBiotech

Overview
The Master of Biotechnology (MBiotech) program is an interdisciplinary course-based professional degree program. Students in the MBiotech program come from wide and varied backgrounds with the common goal of pursuing a career in the biotechnology, financial, and pharmaceutical industries. The program is designed to meet the evolving needs of students and this global industry sector. Guest lecturers from various faculties within the University of Toronto provide students with a truly interdisciplinary educational experience. Additional instruction from leaders of the biotechnology and pharmaceutical industries and from governmental agencies round out the broadly based learning environment.

Contact and Address
Web: www.mbiotech.ca
Email: mbiotech@utoronto.ca
Telephone: (905) 569-4737
Fax: (905) 569-4738

Master of Biotechnology Program
University of Toronto at Mississauga
Room 2071, South Building
3359 Mississauga Road North
Mississauga, Ontario L5L 1C6
Canada

Master of Biotechnology

Admission Requirements
- an appropriate bachelor’s degree from a recognized university in any area of biological sciences, chemistry, engineering, or related field
- acceptable GRE scores and/or marks of A- or better in the final two years of study

Program Requirements
- The program is a full-time, course-based master’s degree which is launched during the month of May each year.
- Students are required to complete 8.0 graduate full-course equivalents (FCEs) over a 24-month period:
  - 5.0 to 6.0 FCEs science credits (includes credits for Seminar and Placement)
  - 2.0 FCEs business credits
  - up to 1.0 FCE elective credit
- An ongoing seminar series led by university, industry, and government specialists links all the participants with the academic, practical, and applied aspects of the program.

Normal Program Length: 9 sessions (2 years) full-time
Time Limit: 3 years full-time

Course List

Required Courses
- BTC 1600H Seminar in Bioscience/Biotechnology I
- BTC 1610H Seminar in Bioscience/Biotechnology II
- BTC 1700H Molecular Biology Laboratory
- BTC 1710H Protein Chemistry Laboratory
- BTC 1800H Biotechnology in Medicine
- BTC 1810H Biotechnology and Corporations
- BTC 1820H Biotechnology in Agriculture and Natural Products
- BTC 1900Y0 Work Term I
- BTC 1910Y0 Work Term II
- BTC 1920Y0 Work Term III
- BTC 2000H Organizational Skills
- BTC 2010H Fundamentals of Managerial Concepts
- BTC 2020H Science, Technology, Organizations and Society
- BTC 2030Y Management of Technological Innovation

Elective Courses
- BTC 1830H Medical and Scientific Challenges in Marketing Therapeutics
- BTC 2100Y Topics in Biotechnology
- BTC 2110H Topics in Biotechnology
- BTC 2120H Topics in Biotechnology
- Other graduate courses approved by Program Directors.

Program Committee
Lange, Angela - BSc, PhD – Cell & Systems Biology
Revers, Leigh - MA, DPhil – Cell & Systems Biology
( Associate Director)
Westwood, J. Timothy - BSc, MSc, PhD – Cell & Systems Biology
Krull, Ulrich - BSc, MSc, PhD, AstraZeneca Professor of Biotechnology – Chemistry
Prosser, Scott - BSc, MSc, PhD – Chemistry (Director)
Tombak, Mihkel - BASc, MBA, AM, PhD – Management

Additional faculty are selected from Cell and Systems Biology, Chemistry, and related departments, as well as from experts in industry and government.
Financial Economics

Faculty Affiliation
Arts and Science, Management

Participating Degree Programs at U of T
Financial Economics – MFE

Overview
The Master of Financial Economics Program is a small enrolment joint program of the Department of Economics and the Rotman School of Management. Graduates of the program receive a professional degree called the Master of Financial Economics (MFE). The 16-month program is designed to equip talented students with the tools and skills required for successful careers in the financial sector. Its objectives are to provide students with a broad understanding of financial theory and the economic framework upon which that theory is based, both in the classroom and through actual experience working for firms in the financial sector.

Contact and Address
Web: www.economics.utoronto.ca/mfe
Email: mfe@chass.utoronto.ca
Telephone: (416) 978-8623
Fax: (416) 978-6713
Master of Financial Economics Program
Department of Economics
University of Toronto
150 St. George Street
Toronto, Ontario M5S 3G7
Canada

Master of Financial Economics

Admission Requirements
• Applicants must have completed or must be in the final year of an appropriate honours bachelor’s degree program from a recognized university, with a B+ standing in the final year of that program.
• Strong preparation in economics, including full-year courses in intermediate-level micro and macro theory, and full-year university-level courses in each of calculus and statistics.
• Previous training in finance is useful but not required.

Achievement of the minimum requirements does not guarantee acceptance into the program. Preference is given to students who have completed, with high standing, advanced-level courses in any or all of economics, mathematics, and econometrics.

Program Requirements
• 6.0 full-course equivalents (FCEs) or 12 half-courses, a four-month summer internship, and an intensive mathematics, statistics, and accounting review
• The core program consists of 2.0 FCEs from the Department of Economics and 1.5 FCEs from the Rotman School. The core courses drawn from the Department of Economics are the same as the core courses required for the MA degree in Economics plus ECO 2503H Financial Economics I. The core courses from the Rotman School (MGT 2306H Options and Futures Markets, MGT 2300H Corporate Financing, MGT 2302H Security Analysis and Portfolio Management) are drawn from the second-year MBA level courses and provide students with training in key areas of finance.
• In addition to the core courses, students are free to choose 2.5 FCEs in electives from either the Department of Economics or the Rotman School, subject to the condition that at least 3.5 out of the 6.0 FCEs must be taken from the Department of Economics. Students may choose from a long list of elective courses offered at the graduate level in Economics or the second-year MBA level (or higher) from the Rotman School, subject to availability.

Normal Program Length: 4 sessions full-time
Time Limit: 3 years full-time

Program Committee
Aivazian, Varouj - BS, MA, PhD – Economics
Alexopoulos, Michelle - BSc, MA, PhD – Economics
Maheu, John - BA, MA, PhD – Economics
Malinova, Ekaterina - BSc, MA, PhD – Economics
Melino, Angelo - BA, PhD – Economics (Co-Director)
Park, Andreas - MSc, MPh, PhD – Economics (Co-Director)
Zhu, Xiaodong - BSc, MSc, PhD – Economics
Booth, Laurence - BSc, MA, MBA, DBA – Management
McCurdy, Thomas - BA, MA, PhD – Management
White, Alan - BEng, MBA, PhD – Management
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